Briarcliff Solar, LLC

Project Application Book

PREPARED FOR
VILLAGE OF BRIARCLIFF MANOR

BRIARCLIFF SOLAR, LLC

79 Madison Ave., 8th Floor, New York, NY 10016

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1.0 INTRODUCTION

Briarcliff Solar, LLC ("Briarcliff Solar") is affiliate of YSG Solar Development Company, LLC. ("YSG" or the "Applicant") is a national renewable energy development company established in 2010, based in New York, New York. YSG is responsible for developing, constructing, structuring financing, and working with community-based organizations to build portfolios of successful clean energy projects across the country.

1.1 Purpose and Statutory Authority

Pursuant to Village of Briarcliff Manor §178 "Solar and Alternative Energy" and §220 "Zoning", Briarcliff Solar LLC (the "Applicant"; or "Briarcliff Solar") respectfully petitions the Village of Briarcliff Manor Village Board for a Special Use Permit for the proposed construction, operation, and maintenance of two, co-located 5.0 megawatt-alternating current ("MW_{AC}") solar-based electric generating facilities (the "Project") located at 345 Scarborough Road, Briarcliff Manor, New York (the "Project Site"; or the "Site").

Briarcliff Manor §178-1-A states, in relevant part:

> *Solar energy collectors shall be permitted (a) to provide power for use by owners, lessees, tenants, residents, or other occupants of the premises on which they are erected; (b) to capture solar energy and convert it to electrical energy for interconnection to the utility grid under New York State regulations for remote net-metering and/or community distributed generation (CDG or community solar) or (c) to promote usage of alternate energy sources consistent with any solar energy programs approved by the New York State Energy Research and Development Authority (NYSERDA) in accordance with New York Public Service Law § 66-j or similar state or federal statute.*

As demonstrated by the information included herein, the proposed Project will result in no air emissions, has been designed to minimize natural resource impact(s), and complies with the applicable air and water quality standards of the New York State Department of Environmental Protection ("NYSDEC"). In addition, the Project will not have an adverse environmental effect in the State of New York and will contribute to the State's efforts in promoting the deployment of clean, renewable energy sources. In accordance with the above and 6 NYCRR Part 617, State Environmental Quality Review ("SEQR") Briarcliff Solar respectfully requests that the Village of Briarcliff Manor declare themselves as Lead Agency.

1.2 Project Overview/Key Project Elements

The proposed Briarcliff Community Solar Garden project is located at 345 Scarborough Rd, Briarcliff Manor, NY 10510 (Parcel ID: 97.16-1-1). The parcel encompasses 78.24 acres and housed the former Philips Research Facility (see Figure 1). The project will raze the dilapidated Philips Research Facility and construct a pair of co-located 5-MW_{AC} Community Solar facilities. The Community Solar Garden makes use of approximately 28,000 solar panels to generate electricity that can power over 2,500 residential homes.

1.2.1 Public Notice and Outreach

Briarcliff Solar and YSG have been proactive in their attempts to inform members of the community of our intentions for the property. The initial public outreach campaign for the Project began in November of 2021. By way of example, Briarcliff Solar has:

- Mailed certified letters to the Facility's neighbors notifying them about the project. In total 12 certified letters were sent out to the neighbors and only two were returned as undeliverable. Please refer to Appendix A for an example of the letter sent to the neighbors as well as the certified mail receipts.
- Engaged in a virtual meeting with neighbors on December 3, 2021 to discuss the project.
- Engaged in regular discussions with local officials about the Project;

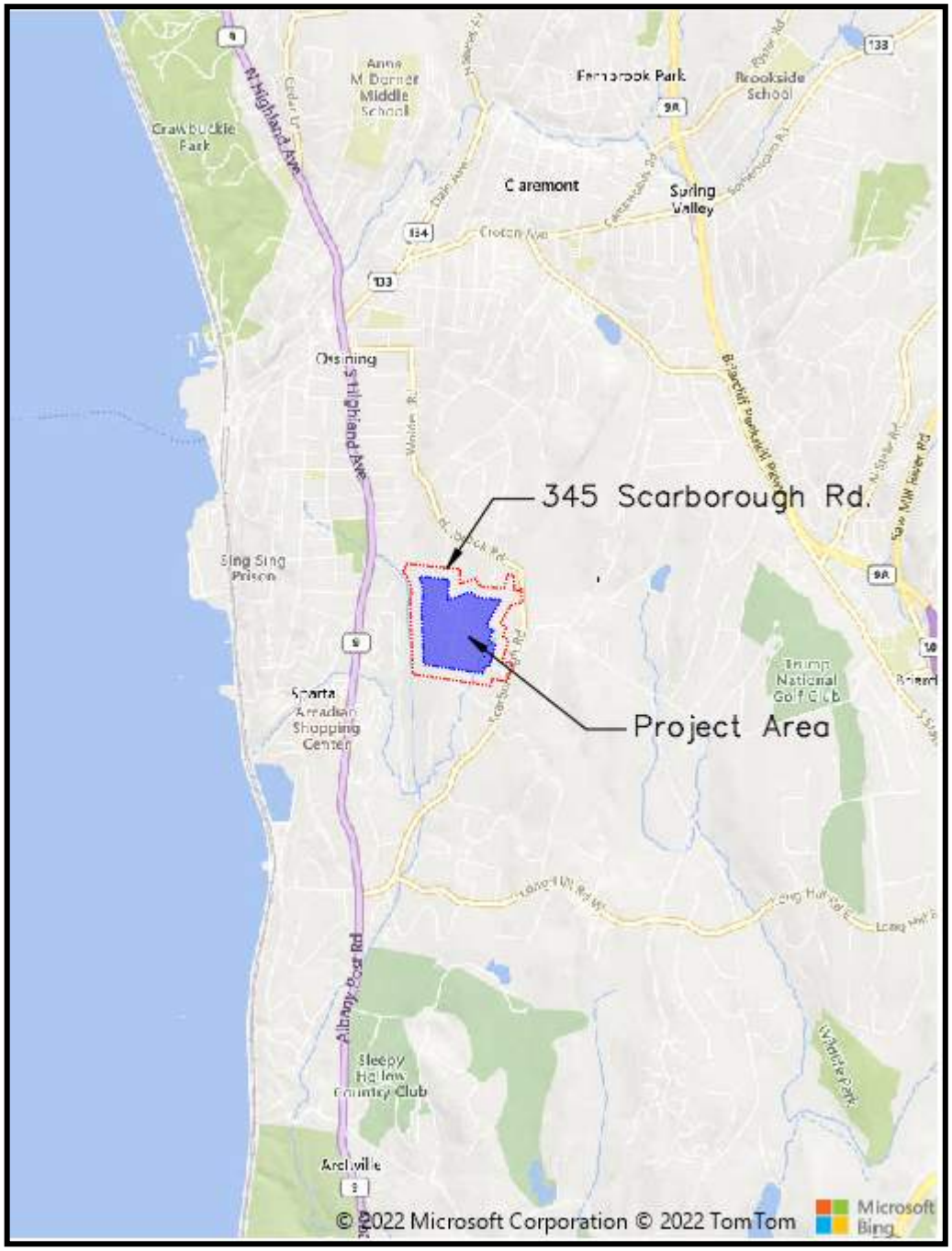


Figure 1 - Site Location (Scale 1:2000)

2.0 Legal Name and Address of Applicant & Contact Information

The legal name of the Applicant is Briarcliff Solar LLC. Briarcliff Solar is a New York limited liability company with its principal place of business in New York, New York. Briarcliff Solar is in affiliate of YSG Solar Development Company LLC ("YSG"). YSG is a professional renewable energy business with a decade of experience in the solar industry; the core of its business is developing, financing, constructing, managing, and operating solar projects.

Mailing Address: Briarcliff Solar LLC
79 Madison Ave, 8th Floor
New York, NY 10016

Correspondence and other communications concerning the Project are to be addressed to, and notices, orders and other papers may be served upon the following:

David Magid
Managing Partner
Briarcliff Solar LLC
79 Madison Ave, 8th Floor
New York, NY 10016
DMG@YSGSolar.com
(212) 389-9215

Jim Taravella, P.E.
Project Developer
Briarcliff Solar LLC
79 Madison Ave, 8th Floor
New York, NY 10016
James.T@YSGSolar.com
(212) 389-9215

Nadia Jagdat
Development Associate
Briarcliff Solar LLC
79 Madison Ave, 8th Floor
New York, NY 10016
Nadia.Jagdat@YSGSolar.com
(212) 389-9215

All three individuals consent to electronic mailings of all Council and Application-related correspondence.

3.0 Description of Proposed Project

The Briarcliff Community Solar Garden will be located within the Complimentary Use Transition (CT1) District, and is one of the few large commercial zoned parcels in the Village of Briarcliff Manor. The project will result in the redevelopment of a dilapidated and underutilized site within the Village. Maintaining the quantity of commercially zoned parcels within the Briarcliff Manor is a key component for the community and local economy. Additionally, the proposed solar garden is consistent with the community's and State's clean energy goals. It will generate clean electricity that will be fully exported into Con Edison's existing infrastructure.

To facilitate this development, Briarcliff Solar LLC has engaged with several demolition and abatement companies to prepare for the razing of the former Research Facility. The goal is to remove the facility while maintaining the integrity of Shadow Brook Lane for use as the project's access. No new roads or entrances will be required for this project. By abating and razing the existing facility, the project will improve the property's appearance and increase the permeability

of the site.

Concurrent with the plans to reclaim the site, two active projects have been initiated with Con Edison's Distributed Generation department for this project. The project initiated with Con Edison consist of two co-located 5 MW_{AC} Community Solar facilities. Each project has a total of approximately 14,000 solar panels.

The solar panels will be mounted on a steel racking structure that tracks the direction of the sun on a single axis. The maximum height of the solar equipment is approximately 9ft and the lowest point is approximately 3ft. The solar equipment will be protected with a security fence that reached a height of 7ft. The equipment is accessed from an existing private roadway accessed from Scarborough Road. Each solar facility will be connected to its own electrical service. The electrical service and metering equipment will be set by Con Edison.

3.1 Project Site Description and Site Selection

3.1.1 Site Description

The proposed project parcel encompasses 78.24 acres and housed the former Philips Research Facility. The Research Facility consists of four main interconnected buildings designated as Buildings A, B, C, and D and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area. The property is accessed by a private drive known as Shadow Brook Lane. Asphalt paved parking is present to the north and south of the Research Facility. The remainder of the Site is either grass field or wooded. Water and power easements are present in the area occupied by Shadow Brook Lane and a sewer easement runs north/south.

Philips lighting constructed the original buildings (A and B) in 1964 for use as a research facility and office building. Philips added building C in 1980 and building D in 1988. The facility has been vacant since Philips ceased their operations at the site in 2015.

Site security has been a challenge due to large area of open area creating numerous points of entry to unauthorized individuals. The community, residents, and neighboring properties are eager to see the building removed. As shown in the photos below the Research Facility is in a state of disrepair and has been the subject of extensive vandalization. In addition to the damages done to the facility's interior and exterior, an asbestos report completed in 2017 (see Appendix B) indicates that an extensive abatement will be required prior to any activity within the Research Facility.

Photos of 345 Scarborough Rd



East facing wall (looking west)



North facing wall (looking south)



South facing wall (looking north)



West facing (looking south)

Figure 2 - Existing Site Photos

The proposed project will abate the asbestos containing materials within the Research Facility, razing of the structure, removal of the demolished structure, regrading of the former building footprint, and the installation of two 7.5MW_{DC} solar arrays for a total of 15MW_{DC} of power generation.

The current state of the economy and allowed uses of the land limit the ability for an investment on the premises and has left the parcel with an abandoned commercial building that has been plagued with vandalism. The vandals have posed a safety threat to themselves and the community.

3.1.2 Site Selection

The Site is suitable for the Project for a variety of reasons, including

- It is near an existing Con Edison distribution center.
- Due to existing vegetation, it is largely shielded from public views and neighborhoods.
- The facility's construction and subsequent operation is not expected to have undue adverse environmental impacts on the surrounding area.

3.2 Proposed Project Description

3.2.1 Solar Panels and Related Ground Equipment

As currently designed, the proposed Project will consist of approximately 28,000 ET Solar ET-M772BH540TW 540W bifacial solar modules; 100 Solectria 1500V 125kW (XGI 1500-125/125) inverters; Single-axis tracker racking in 4 High Landscape orientation; a switchgear, transformers, and electrical systems interconnected to the utility grid along Prospect Street. The Project also includes the installation of access roads and an NEC-compliant, seven (7)-foot safety and security fencing system.

For more detail(s) regarding the Project's design, please refer to Appendix C, Project Site Plans.

3.2.2 Service Life and Capacity Factor

The Facility's panels and inverters have an anticipated service life of thirty-five (35) years.

3.2.3 Site Access

The Facility will be accessed via an existing private road, Shadow Brook Lane, accessed from Scarborough Road.

3.2.4 Interconnection

The direct current ("DC") electricity generated by the solar panels will be converted to AC and stepped up to 13.2-kilovolts (kV) at two transformers and associated inverters located at the southern end of the Project Area. From the transformers, the AC power from the Project will be carried underground, following the existing access road, to connect to an existing Con Edison 13.2-kV distribution line along Scarborough Rd.

Briarcliff Solar will conduct the interconnection in accordance with Con Edison's technical standards, and State of New York requirements, and Federal Energy Regulatory Commission ("FERC") requirements.

3.2.5 Construction Schedule and Phasing

Construction Schedule and Phasing Construction activities within the Project Area will include asbestos abatement, building demolition, tree clearing, grading, incorporating stormwater best management practices, installing erosion and sedimentation ("E&S") control measures, racking and module installation, electrical trenching, Tree clearing beyond the fenced area will be required to facilitate construction of the Project. Existing grades throughout the Project Area

will be modified which will require some manipulation (cuts/fills) and regrading. Briarcliff Solar's preliminary construction plans for the Project are as follows:

3.2.5.1 PHASE 1 (Asbestos Abatement, Building Demolition, Clearing, and Site Erosion Controls)

1. Obtain building Demolition Permit from the Town of Briarcliff Manor;
2. Obtain permits/clearances from NYS Department of Labor and the NYS Department of Health to abate the building;
3. Contact Call Before You Dig 811 prior to any construction;
4. Begin building abatement;
5. Survey flag limits of clearing;
6. Conduct a pre-construction meeting with site contractor to discuss operations and limits;
7. Install perimeter erosion control measures. Measures will be inspected weekly or after all rainfall events of 0.5'' rainfall or greater. Fix any defects in erosion control measures immediately;
8. Clear trees and brush (All stumps, etc., to be ground and removed offsite);
9. Complete abatement and building demolition;
10. Regrade areas in accordance with the site plans; and
11. Use erosion control fabric (Tensar North American Green 575 or equal) on all slopes greater than 5:1 (if any).

3.2.5.2 PHASE 2 (Array Installation)

1. Erect temporary erosion and control measures within the array areas as shown in the Project Site Plans.
2. Strip and stockpile topsoil as required to complete grading. Topsoil pile to be protected with geo-textile silt fence. Stockpile time frame will be short term (i.e., two (2) weeks or less);
3. Complete grading for arrays as shown in the Project Site Plans.
4. Restore all graded areas with topsoil;
5. Install racking posts for ground-mounted solar panels;
6. Install ground-mounted solar panels and complete electrical installation
7. Hydro-seed array area; and
8. Maintain down-slope erosion control measures until turf has been established.

3.2.5.3 PHASE 3 (Perimeter Limit of Disturbance)

1. Complete restoration of all perimeter areas with seed mix;
2. Install fencing;
3. Install equipment pad and underground utilities to pole location on Scarborough Rd; and,
4. Maintain all erosion control measures until turf and all up-slope areas have been established.
5. For additional details regarding Briarcliff Solar's preliminary construction plans for the Project, please refer to Appendix C, Project Site Plans.

3.2.6 Project Maintenance

Throughout operation of the Project, periodic inspections and maintenance will be performed as required. Required maintenance of the Project, however, will be minimal. Briarcliff Solar will designate an Operations & Maintenance ("O&M") Service Provider. The maintenance service provider and/or its authorized subcontractors will visit the Site monthly to assess site

conditions and perform maintenance as needed. Signage and egress functionality will be inspected during this time and repaired, if necessary. Other anticipated management/maintenance activities for the Project are as follows:

1. **Equipment Maintenance**: The maintenance service provider and/or its authorized subcontractors will inspect and maintain electrical and PV equipment in accordance with the manufacturers' respective requirements to maintain proper operation and warranty status of the equipment. The maintenance service provider will also perform the following inspections: (a) the operation of all safety devices will be reviewed and corrected to maintain proper function; (b) full visual inspection of all equipment, subassemblies, wiring, connectors, etc.; (c) thermal scanning of electronic equipment, wiring terminations, connectors, etc.; (d) mechanical inspection, including torque verification of critical connections; (e) String Testing (IV curve test); and, (f) air filter elements.

2. **Grass Management**: Grass around and under the array will be mowed in accordance with the schedule provided below and will be maintained at a height intended to mitigate the risk of fire. Grass will be re-planted in bare areas onsite to ensure that erosion control is maintained.

3. **Panel Cleaning**: Although panel cleaning is rarely necessary in the Northeast, in the event that the panels were to experience enough soiling to adversely affect production, the panels will be cleaned using water brought in by tanker truck(s) and soft bristle brooms. No chemicals will be used in connection with panel cleaning.

4. **Snow Maintenance/Removal**: The maintenance service provider and/or its authorized subcontractors will clear snow from the access roads to all the electrical equipment pads onsite. Snow will be plowed or removed in a manner to maintain emergency turnarounds. Briarcliff Solar does not intend to remove snow from the panels. The angle of the panels relative to the ground which will allow any accumulating snow to sheet off.

5. **Long-Term Stormwater Maintenance Plan**: The O&M team will provide maintenance in accordance with the approved stormwater maintenance plan produced by the Project's engineer of record.

Table 1, below, summarizes the anticipated scheduled maintenance activities for the Project. For additional information regarding the expected maintenance of the Project, please refer to Appendix D - Operations and Maintenance Plan.

Table 1 – Scheduled Maintenance

Task	Frequency
On-Site Ground Inspection	Monthly
Visual Array & Equipment Inspection	1x per year or per equipment manufacturer requirements
Mechanical & Electrical Inspections	1x per year or per equipment manufacturer requirements
Panel Cleaning	As Needed
Mowing and Trimming	2-3x per year or more as required to maintain a safe site
Snow Removal	As Needed
Perimeter Fence Inspection	1x per year
Stormwater Management System Inspection	1x per year or per engineer's stormwater management plan

3.2.7 Project Decommissioning

At the end of its lifespan, the Project will be fully decommissioned and removed from the Site in accordance with the project Decommissioning Plan in Appendix E.

4.0 Project Purpose and Need

The Project meets a clear public need. Global climate change has become a real and dire threat on the regional, national, and international scale(s). In New York, the effects of climate change are already being felt, and expected to worsen if not attended to immediately.

Clean renewable energy resources, such as the proposed Project, are integral to New York's success in mitigating climate change. To that end, the Project is consistent with New York's long-range strategy to reduce greenhouse gas ("GHG") emissions and increase the deployment of renewable resources in the state.

5.0 Project Benefits

The Project creates several benefits with local, statewide, and regional significance - including supporting renewable energy development and construction related jobs and contributing to New York's statewide renewable energy goals.

The Briarcliff Community Solar Garden will provide community members access to clean renewable energy through a subscription arrangement that Briarcliff Solar will market. As part of the NYS Public Service Commission's Order on Community Distributed Generation, Con Edison will provide a monetary credit, known as "solar credits," for each unit of electricity that is exported into their electrical grid.

Briarcliff Solar, and its local partners will be responsible for marketing the "solar credits" to local homeowners, renters, small businesses, and municipalities. Recipients of the "solar credits" are considered subscribers and will receive a benefit that ranges from 5%-10% based on the subscriber's rate structure, and NYS PSC's Value of Distributed Generation Order. Subscribers can save an average of $500 each year. The Solar Garden will enable renters and homeowners who do not have the proper roof orientation or load bearing capacity the ability to access the benefit of solar power.

Given the Project's size, it can be expected to generate enough energy to power 2,500 homes for a year, while generating zero pollution or carbon emissions. Moreover, Briarcliff Solar will be an economic contributor to the Village of Briarcliff Manor. Once operational, the Village of Briarcliff Manor will receive annual tax revenues from the Project Briarcliff Solar also intends to use, where appropriate, local and regional labor for the construction and subsequent operation of the Project and expects that approximately twenty-one (21) new jobs will be created (19 construction jobs and two (2) new full-time job positions). Moreover, there will be no additional burdens placed on municipal infrastructure or demands on Village of Briarcliff Manor services due to the development of the Project.

Importantly, the Project will generate the majority of its power during the summer electrical peak, thereby providing peaking resources when the State has its greatest need for energy.

6.0 POTENTIAL ENVIRONMENTAL IMPACTS

As is evidenced by the information provided below, the Project has been designed to avoid or minimize impact(s) to public health and safety, the existing environment, wildlife, and habitat on and around the Site; and, in accordance with NYSDEC and USACE regulations, will not have an adverse effect on scenic, historical, or recreational areas within and surrounding the project site area.

6.1 Public Health and Safety

6.1.1 Public Health

As a Renewable Energy Source, Briarcliff Solar represents a clean and safe method of electricity generation in the State. The Project will contribute to reducing greenhouse gas emissions to the extent it displaces the fossil-fueled generating resources, and the Project, once operational, will not create any waste or other emissions that would be detrimental to the public health and safety. In addition, the Project will not consume any water or produce any wastewater or otherwise involve the injection of waste or harmful or toxic substances into ground water or wells.

6.1.2 Site Safety

The Philips Research Facility building on site has been vacant since Philips ceased their operations at the site in 2015. The abandoned building has since faced an ongoing issue with loitering, vandalism, and trespassing. Refer to current existing condition photos of the site in Appendix F – Existing Conditions Photos. The implementation of Briarcliff Solar on the property will secure the site with reinforced fencing and security measures and make it a safe place for the community and neighbors.

Right now, the site is of access to trespassers via the Old Croton Aqueduct Trail that is adjacent to the West side of the Project site. The Project has been designed resolve the trespassing issue through the implementation of numerous security techniques and demolition of the existing building. Briarcliff Solar will meet or exceed applicable local, state, national and industry health and safety standards and requirements related to electric power generation, including the National Electrical Safety Code ("NESC"), and those codes and standards promulgated by the National Fire Protection Association ("NFPA"). In accordance therewith, all of the Project's electrical equipment will be secured by a seven 7-foot high locked security gate that is National Electric Code ("NEC")-compliant to ensure that the Facility is not readily accessible to the public. The property line that faces the public Old Croton Aqueduct Trail will also be equipped with chain link security fencing that is equipped with barbed wire which will prevent future trespassers and vandalism in the area. As a result. the security measures will not only be protecting the Project site, but all neighbors immediately adjacent to the property as well who have a direct view of the site.

6.1.3 Emergency Access/Training

On May 9th, 2022, YSG conducted an in-person meeting with Mr. John Wynne, the Police Chief for the Briarcliff Manor Police Department. On the same day, YSG scheduled an in-person meeting with Mr. Vincent Caruso, the Fire Chief for the Briarcliff Manor Fire Department, but plans to reschedule the fire department meeting for a date in the future. The purpose of the meeting was to discuss emergency services regarding access to the Facility and emergency shutoff switches. YSG Presented the Site Plan Set (Appendix C) to the Police Department and verified that our site map complied with NFPA standards, incorporated a 20' wide driveway with a minimum 45' radius. Each of the entrance gates to the Facility will have a universal key lock for emergency responders. Below, Table 2 provides an emergency contact list for the Village of Briarcliff Manor. The project is designed to comply with all local and state emergency access standards and Briarcliff Solar does not anticipate any emergency access issues for the Project or the Village of Briarcliff Manor.

Table 2 – Emergency Contacts

Department	Contact Information
Emergencies	Dial 911
Briarcliff Manor Fire Department	(914) 941-4440 Fire Chief: (914) 941-0879 Alternate: (914) 944-2762 Briarcliff Manor Village Hall 1111 Pleasantville Road Briarcliff Manor, NY 10510
Briarcliff Manor Police Department	Non-Emergency: (914) 941-2130 Briarcliff Manor Village Hall 1111 Pleasantville Road Briarcliff Manor, NY 10510

6.1.4 Electric and Magnetic Fields

Existing sources of electric and magnetic fields ("EMF") along the boundaries of the Project Site include the 60-Hz AC fields associated with the Con Edison 13-kV overhead distribution line along Holbrook Road and Scarborough Road, to which the electricity from the

solar arrays will connect.

During Project operation, electric and magnetic fields on the Project Site are expected to derive from the following sources: (1) the DC solar panels; (2) the DC cables that connect the solar arrays to the power inverters; (3) the AC power inverters that convert the DC power to AC power; and, (4) the underground 13-kV interconnection and existing Con Edison 13-kV distribution line along Holbrook Road and Scarborough Road, to which the Project will connect.

The proposed DC solar panels, AC power inverters, and AC transformers will be located more than 500 feet from the boundaries of the Site, with the nearest residences even further away. DC magnetic-field levels from cables connecting the solar arrays to the inverters will produce a DC magnetic field, however at the northern site boundary, would represent a small fraction of the earth's natural static (i.e., DC) geomagnetic field. The higher-frequency AC fields from the inverters, like the DC fields from the solar panels, generally decrease to near background levels within a few tens of feet or less. Thus, the operation of these sources would not appreciably change the EMF levels outside the Project Site.

The Project's solar arrays and related equipment in the Project Area will be sufficiently far from the Project Site's boundaries, and therefore, sufficiently far from the nearest residences such that the AC EMF levels from the solar equipment would be negligible off-site and far below the exposure limits for the general public recommended by the ICNIRP and ICES.

6.2 Federal, Local and State Land Use, Conservation and Development Plans

The Project plans are consistent with the goals, policies and implementation strategies contained in the Village of Briarcliff Manor's zoning regulations (the "Zoning Regulations"), Comprehensive Plan and Special Use Permit requirements (Ch. 220-6). Local, State and Federal land use policies and conservation recommendations have been implemented within the plans also to ensure that construction follows all conservation and development prerequisites.

6.3 Ecological, Vegetation, Wildlife Habitat, and Natural Diversity Database and Endangered Species

Provided in the following sections is information summarizing the identified onsite threaten and endangered wildlife (Indiana Bat and Monarch Butterfly); Phase 1 ESA; Geology; Forest and Meadow Implementation; and Prime Farmland Soils/Farmland Soils of Statewide Importance.

6.3.1 Threatened and Endangered Wildlife

The Project Area is located entirely within three (3) non-wetland habitats: Mixed Hardwood Forest, Grasslands and Commercial Yard space. Findings obtained from The USFWS Ecological Services Program IPaC Official Species List (Appendix G) combined with the data generated from NYSDEC's SEQR FEAF (Appendix H) provide a baseline inventory of all ecological, vegetation, wildlife habitat and endangered species that exist at the site. The following sections outline how YSG has determined the Project will not have any adverse impacts on Natural Diversity around the Project site.

On April 1, 2022, YSG received an email response (Appendix I-2) to an environmental due diligence notification letter (Appendix I-1) sent to NYSDEC Natural Heritage along with a copy of the site plan set and SEQR FEAF. The response from Heidi Krahling, Environmental Review Specialist, from the NY Natural Heritage Program confirmed the results of the SEQR FEAF, indicating that there are not any known records of rare or endangered species, or significant habitats, at or in the vicinity of the proposed project site, so further action involving NYSDEC Natural Heritage is not necessary.

Additional correspondences with the Region 3 Wildlife department at NYSDEC further confirms the findings from the Natural Heritage Program. On May 10th, 2022, Lisa Masi, Senior Wildlife Biologist at the Region 3 Field Office provided a response email (Appendix J-2) to the notification letter (Appendix J-1) stating "no impacts to these species are anticipated and a NYSDEC endangered and threatened species permit will not be needed. The FEAF also indicated no ETS are known on the project site."

On May 11, 2022, YSG conducted a virtual meeting with Sandra Doran and Tim Sullivan, Biologists at USFWS New York Ecological Services Field Office to review the IPaC Official Species List for the Project generated through the USFWS website[1]. According to the Species List, there is a total of two (2) threatened, endangered, or candidate species potentially present at the project site. Table 3 lists the species as per the Biological Assessment (Appendix J) results obtained from IPaC. The Species List also confirms that there are no critical habitats within the project area under USFWS jurisdiction. The Official Species list, Biological Assessment and YSG's determination was generated and submitted to the NY field office on May 13, 2022 and no impact findings are expected to be verified by the assigned biologist within 90 days. If the NY Field Office determines that further study is required for any USFWS r

[1] https://ipac.ecosphere.fws.gov/location/index

egulated species, YSG is prepared to conduct Phase 1 Habitat Surveys during the necessary survey periods.

Table 3 – Threatened & Endangered Species

Classification	Species Name	Status	Present In Action Area	Effect Determination
Mammal	Indiana Bat *(Myotis sodalist)*	Endangered	No	No Effect
Insect	Monarch Butterfly *(Danaus plexippus)*	Candidate	Excluded from Analysis	Excluded from Analysis

6.3.1.1 Indiana Bat

Information and data provided by Biologist, Sandra Doran from USFWS NY Field Office via email (Appendix L – USFWS Species Data) confirmed that the distance to the nearest Indiana bat roost tree is approximately 26 miles. The distance to the nearest hibernaculum (overwinter site) is approximately 23 miles. The project will not have any remote wildlife impacts that will reach distances past the site boundaries and therefore impacts to the Indiana Bat species are not anticipated.

6.3.1.2 Monarch Butterfly

Information and data provided by Biologist, Sandra Doran from USFWS NY Field Office via email (Appendix L – USFWS Species Data) confirmed that the monarch butterfly is currently a candidate species for listing under the Endangered Species Act. While the monarch butterfly may be identified through the U.S. Fish and Wildlife (Service) Information, Planning and Consultation (IPaC) program official species list requests, there is no requirement under section 10 (non-federal agency involvement) to coordinate with the Service on candidate, proposed, or listed species. However, as encouraged by USFWS, the Project will take advantage of any opportunity we may have to conserve the monarch butterfly and implement construction to support the growth of the species. We also continue consider incorporating habitat restoration or enhancement measures into project plans that benefits the monarch butterfly and other similar pollinator species.

6.3.1.3 Migratory Birds

The migratory list reveals the presence of the bald eagle habitat located near the project site. Information and data provided by Biologist, Sandra Doran from USFWS NY Field Office via email (Appendix L – USFWS Species Data) confirmed that the nearest bald eagles nest is located on the Hudson River, approximately 2.6 miles from the center of the project site, and

therefore, will not be impacted by the Project. Ms. Doran confirmed that there is no permit required for disturbing bald eagles or take of a bald eagle nest.

The conference call with USFWS NY Field Office confirmed that the migratory birds listed on the Official Species List provides recommendations for site preparation time frames based on probability of presence and breeding seasons of each bird species. YSG intends to conduct all site preparation and construction activities outside the threshold timeframes listed in the species list.

6.3.2 Phase 1 ESA

Prior to the Project being proposed, the owners of the site, Ridgewood Briarcliff Owner, LLC conducted a Phase 1 Environmental Site Assessment (Phase 1 ESA) in May 2017 which provides an in-depth summary of the site's historical environmental conditions. GZA GeoEnvironmental Inc. performed the Phase 1 ESA in general conformance with the scope and limitation of ASTM E1527-13 for the Project property located at 345 Scarborough Road in Briarcliff Manor, NY. The results revealed that there is no evidence of Recognized Environmental Conditions (REC) or Controlled Recognized Environmental Conditions (CREC). One Historic Recognized Environmental Condition (HREC) was identified on site regarding four underground storage tanks (UST) that were removed from the Site from 1998 to 2004 and replaced by a one 20,000-gallon UST. Additionally, the Site was listed in the database[2] report for at lease five petroleum-related spills and one complaint of a leaking drum. The spills and tank removals were listed as closed indicated that they were resolved to the satisfaction of the applicable regulatory agencies. The proof closed spill incidents are included at the end of the SEQR FEAF (Appendix H) as attachments, showing that there is no further action required to remediate these findings. One *de minimus* condition present on site included staining in the parking lot associated with parked vehicles and within various locations of the Site building. These stains are associated with property and equipment operations and repairs. The observed staining does not appear to be significant or pervasive and constitutes a *de minimus* condition. The results of this report that there are no significant environmental concerns related to the project site.

A new ESA Phase 1 was conducted in general conformance with the scope and limitation of ASTM E1527-13 by Environmental Affiliates, Inc. on April 4th, 2022. The updated report

[2] https://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=2

(Appendix M) was provided on April 26th, 2021. The results revealed that there is no evidence of Recognized Environmental Conditions (REC) or Controlled Recognized Environmental Conditions (CREC). The report detailed the Historic Recognized Environmental Conditions (HREC) regarding the UST on site. Two of the three fuel oil tanks were removed, and the larger 20,000-gallon tank was abandoned by filling the tank with a slurry of concrete. The tank closures were overseen by either the NYSDEC or the Westchester County Health Department, and the regulatory agency provided written notification to Philips that no further action was required to address residual impacts, and the spill files established for these tanks were subsequently closed. The fourth underground storage tank containing fuel oil was successfully removed from the Holbrook residence in 1998. Visual inspection of the tank at the time of closure indicated that it was in sound condition and post-excavations sampling completed during the removal did not detect petroleum impacts. The spill and *de minimis* findings were consistent with the report from GZA, indicating that all spills were officially closed by NYSDEC and that staining due in the parking lot areas were due to property and equipment operations and repairs. The observed staining does not appear to be significant or pervasive and constitutes a *de minimus* condition. The results of the updated report therefore verify that there are no significant environmental concerns related to the project site. Briarcliff Solar intends to follow all recommendations as outlined in the April 26th, 2022 ESA Phase 1 Report provided by Environmental Affiliates, Inc during construction and operation of the facility.

6.3.3 Geology

Although a Geotechnical report of the site has not been conducted yet. The Project has gathered quotes from accredited Geotechnical surveyors such as GZA GeoEnvironmental Inc. and Foundation Design P.C. in preparation for the project. Prior to scheduling the geotechnical investigation. Briarcliff Solar plans to review the scope of Geotechnical work required for engineering design and environmental due diligence to ensure that all required data is gathered, and necessary precautions are implemented. The project intends to evaluate all site preparation, design and equipment recommendations based on the geotechnical report findings once it is received to minimize any impacts on the Briarcliff solar and its surrounding soils and geologic environment.

6.3.4 Forest and Meadow Implementation

The total parcel area of the property is 78.24 acres. The proposed project will cause

ground disturbance on approximately +/ 49.33 acres of this land or ~63%. The Project will result in the conversion of approximately ~20.455 acres of Mixed Hardwood Forest to meadows and grasslands to support the installation of the solar facility and prevent shading on the solar panels after installation. To mitigate the loss of forest habitat, Briarcliff Solar proposes establishing areas of native meadow habitat through planting and landscaping. Small tree and grass plantings will be established at the outer limits of the Project Area and the perimeter fence surrounding the Project's arrays. The landscaping will be well maintained to prevent panel shading.

While these plantings do not necessarily "replace" forest loss, they will serve to increase early-successional/forest edge habitat value—particularly for species like the Indiana Bat and Monarch Butterfly.

6.3.5 Prime Farmland Soils and Farmland Soils of Statewide Importance

According to the NRCS Web Soil Survey[3] Map and Soil Data Access[4] (Appendix N – Site Soils), the Project area lays on six (6) soil types: PnD, PnC, PnB, RdB, WdB and Ub, in order of most to least prominent on site. PnC and RdB is Farmland of Statewide importance and makes up ~23.2% and ~10.2% of the site respectively. PnB and WdB are prime farmland and makes up ~10.7% and 8.9% of the site respectively. All soils on the site consist of generally low slopes between 3 to 15 percent and are moderately well drained. The only disturbance to the soil will be for grading (site preparation) and piling (installation of helical piles). No soils will be removed from the site.

6.4 Wetlands

This Section describes the wetlands identified at the Site, including anticipated Project-related impacts to these resources. As discussed below, the Project has been successful in avoiding all direct impacts to the identified wetlands, and adverse impacts to these resources is not expected.

6.4.1 Identified Wetlands and Regulating Agencies

The property contains two wetland areas identified per the delineation: (i) Freshwater Pond, which is Federally regulated by the US Army Corps of Engineers (USACE) and listed within the National Wetland Inventory; and (ii) Riverine, which is also federally regulated by USACE and listed within the National Wetland Inventory. Only a portion of the pond and stream

[3] https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
[4] https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1338623.html

are located on the Project Site, with a total size of approximately ~0.50 acres going through the Project Site.

JMC Planning, Engineering & Land Surveying, PLLC completed drawing number C-010B, Wetland Flagged Map, dated 06/08/2018 (Appendix O-1). The drawing contains wetland flags that have been identified and flagged by Ecological Solutions, LLC who was contracted to visit the Project site as a wetland delineator on January 26, 2017.

The wetlands are illustrated on the Environmental Resource Mapper (Appendix O-2). The Riverine runs North/South through the East side of the Site and discharging at the freshwater pond on the Northeast corner of the site. No wetlands on site are regulated by the NYSDEC according to the NYSDEC and as reflected in the SEQR FEAF.

6.4.1.1 Federal Wetlands: USACE

On March 28th, 2022, Briarcliff Solar notified the NY Regulatory District of USACE of its intentions to develop a solar facility on the Site via notification letter (Appendix O-3) along with an attached SEQR FEAF and site map. Briarcliff Solar intends to make use of the existing on-site infrastructure (i.e., roadways) and construct the solar arrays without disturbing the stream that runs through the site, as a roadway crossing through the stream is pre-existing. The roads on site will stay in place and the work will not involve discharging dredges or fill material into waters.

On May 3rd, 2022, Ms. Alexandra Ryan, General Engineer/Project Manager for USACE, provided a no impact response letter (Appendix O-4) stating that no permit would be required for the site as the wetlands will remain undisturbed as per the project Site plan set.

6.4.1.2 State Wetlands: NYSDEC

As mentioned above, the NYSDEC Environmental Resource Mapper does not show any State regulated wetlands on Site. On March 28th, 2022, Briarcliff Solar issued a notification letter (Appendix O-5) to the NYSDEC Region 3 Field Office along with the SEQR FEAF and Site Plan sets. On the same day, Rebecca Crist, Deputy Permit Administrator of the Division of Environmental Permits, provided a response (Appendix O-6) indicating that there are no NYSDEC regulated wetlands on the Project Site, confirming the findings of the NYSDEC Environmental Resource Mapper. As a result, there is no further action required for State wetland regulations on site

6.4.2 Impacts on Wetlands

The fundamental concept of wetland impact analysis is based on the precept that wetland impacts should first be avoided where possible. Secondly, if practicable alternatives do not exist to avoid wetland impacts, then such impacts should be minimized. Thirdly, unavoidable wetland impacts should be mitigated.

The Project has been successful in avoiding all direct impacts to the identified wetlands, as no tree-clearing, construction or other vegetation alteration will occur within these areas and the Project maintains substantial buffers from all wetlands and watercourses. Because development activity is proposed adjacent to the wetlands, there is the potential for secondary impacts to these resources. However, the potential for such secondary impacts will be minimized through the implementation of best management practices.

The principal protection measure proposed for the Project is the preservation of substantial and undisturbed wetland and stream buffers. These buffers will not be affected by the Project, and the width of these buffers will allow for the preservation of the existing watershed drainage patterns, the natural infiltration of surface water runoff, as well as the preservation of stream-shading and temperature-sensitive stream micro-climates.

Nonetheless, to minimize the potential for soil erosion and sedimentation during development, a full SWPPP (Appendix P) has been provided by the Project's civil engineers, Labella Associates and outlines all recommended measures that will be implemented to minimize any adverse impact on the wetland.

As demonstrated by the foregoing, the Project will not adversely affect any identified wetlands.

6.5 Water Resources and Stormwater Management

The Project is not expected to have an adverse impact on the State or Federal water resources, as the Facility operations are passive by nature. The Facility, once operable, will be unstaffed, no potable water uses or sanitary discharges are planned, and no liquid fuels are associated with the operation of the Facility. The demolition of the existing building on site will result in a net decrease of pervious area which will positively impact stormwater flows and minimize runoff. Regarding potential stormwater issues, and as discussed in greater detail below, the stormwater generated by the proposed development, once operative, will be properly handled and treated as per SWPPP recommendations. The SWPPP has been developed in accordance

with the "New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity," Permit No. GP-0-20-00. The SWPPP includes the elements necessary to comply with the national baseline general permit for construction activities enacted by the U.S. Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDES) program and all local governing agency requirements. As a result, the Project is not expected to have an adverse impact on any State or Federal water resources, and therefore, there will not be any impact on the site or surrounding wetlands.

6.5.1 Floodplain Areas

Briarcliff Solar reviewed the United States Federal Emergency Management Agency ("FEMA") Flood Insurance Rate Maps ("FIRM") for the Site. The Project Site is mapped on FIRM PANEL #36119C0138F, dated September 28, 2007 (Appendix Q-1). Based upon the reviewed mapping, the Site is classified as an unshaded "Zone X," which is defined as an area of minimal flooding, typically above the 500-year flood level. The Project is outside the influence of 100- and 500-year floodplains and will have no effect on these resources. On April 11th, 2022, Briarcliff Solar received an email correspondence from NYSDEC's assistant engineer in floodplain management, Geoff Golick. Mr. Golick provided a no impact response letter (Appendix Q-2) which confirmed the FIRM data for the site. As a result, no special considerations, or precautions relative to flooding are therefore required for the Project.

6.5.2 Pollution

The site is located adjacent to the Old Croton Aqueduct, and it is a priority for Briarcliff Solar to ensure that no pollution will occur as a result of the Project. The impervious area of the site is expected to increase after construction and therefore runoff and stormwater management practices will be implemented to avoid pollution. Water quality will be enhanced through the implementation of temporary and permanent erosion and sediment control measures and peak rate control practices as outlined in the Stormwater Pollution Prevention Plan (Appendix P). The approach consists of pipes and open drainage ways to adequately collect, treat, and convey runoff safely; sufficient setbacks from the identified wetlands and water resources onsite have been established in the Site Plan set; erosion and sediment controls will be installed and maintained during construction; and, once the Facility becomes operative, all water resources will be managed in accordance with local, State and Federal water resource and water quality

laws. Once operational, the facility will not have potable water uses, liquid fuels or sanitary, eliminating concern for water contamination. Collectively, the above-mentioned plans will ensure that the Project will have no adverse effect on ground and surface water quality.

6.5.3 Stormwater Management

The NYSDEC requirements for new development states that runoff reduction shall be achieved through infiltration, groundwater recharge, reuse, recycle and/or evaporation/evapotranspiration of 100-percent of the post-development water quality volume to replicate pre-development hydrology. The Project will ultimately result in a net decrease of impervious surface area and is expected to have a positive impact on stormwater flows in the area.

A detailed stormwater management plan, SWPPP (Appendix P), was developed for the Project. This plan was reviewed for adherence with best design practices proven to prevent degradation of downstream waters from stormwater runoff. Additionally, the proposed stormwater system is designed to manage the water quality volume ("WQV") through removal of impervious surfaces and the slow release of water in a manner that will not increase peak flow rates—thereby reducing the likelihood of downstream erosion or increased flooding. Runoff control techniques provide treatment in a distributed manner before runoff reaches the collection system, by maintaining pre-construction infiltration, peak runoff flow, discharge volume, as well as minimizing concentrated flow. This can be accomplished by applying a combination of Runoff Reduction Techniques, standard Stormwater Management Practices (SMPs) with RRv capacity, and good operation and maintenance.

According to the SWPPP Runoff from the project site will discharge to the Sparta Brook on the east side of the project and an unnamed tributary of Sparta Brook on the west side of the project. Project construction activities will consist primarily of site grading, and the installation of storm drainage infrastructure necessary to support the proposed redevelopment project with no increase in impervious area. Construction phase pollutant sources anticipated at the site are disturbed (exposed) soil, vehicle fuels and lubricants, and building materials. Without adequate control there is the potential for each type of pollutant to be transported by stormwater. Stormwater quality will be enhanced through the implementation of temporary and permanent erosion and sediment control measures, the proposed stormwater management practices, and other construction-phase pollution controls outlined within the SWPPP. The proposed stormwater management approach consisting of on-site stormwater management practices will

adequately collect, treat, and convey the stormwater runoff. Grass filter strips will be used to manage and treat stormwater runoff generated by the proposed redevelopment project with no increase in impervious area. Pre- and post-development surface runoff rates have been evaluated for the 1-, 10-, and 100-year 24-hour storm events. Comparison of pre- and post-development watershed conditions demonstrates that the peak rate of runoff from the project site will not be increased.

Briarcliff Solar also notes that, due to the land use proposed, high pollutant loads (i.e., nutrients, petroleum hydrocarbons and liquid fuels, etc.) from stormwater runoff are not expected to result from the Project—especially when compared to a residential or commercial development of similar scale. These conventional types of development include higher vehicular traffic, septic systems effluent, and manicured lawns which are the primary sources of stormwater pollutants. Nevertheless, the stormwater management measures proposed for the Project have been designed in a manner to maximize pollutant removal, and are designed to capture and sequester sediment.

Implementation of these measures will ensure that any stormwater generated from the Project will not result in harm to the surrounding area or the degradation of downstream waters.

6.6 Air Quality

Due to the nature of solar energy generating facilities, the Project, once operational, will not generate any air emissions onsite. While Briarcliff Solar acknowledges that there is the potential for temporary, mobile source emissions associated with the construction of the Project resulting from vehicles and related construction equipment, any such potential air quality impacts resulting therefrom are considered minimal.

Nonetheless, Briarcliff Solar will mitigate such construction-related emissions by utilizing a series of protective measures, including, (i) limiting idling times of equipment; (ii) properly maintaining all vehicles and equipment; and, (iii) watering/spraying construction equipment to minimize dust and particulate releases. In addition, Briarcliff Solar will ensure that all on-site and off-road equipment will meet the latest standards for diesel emissions (as proscribed by the United States Environmental Protection Agency).

6.7 Historic and Archaeological Resources

On March 28th, 2022 Briarcliff Solar issued a notification letter (Appendix R-1) to the

NYS Office of Parks, Recreation and Historic Preservation Tectonic Region Office. On April 6th, 2022, the Director of the Technical Preservation Services Bureau, Nancy Herter, Ph.D, provided a response (Appendix R-2) stating that the NYSHPO needs to complete the review of the Project prior to provide an official effect opinion.

The NY State Historic Preservation Offices (SHPO) Cultural Resource Information System (CRIS)[5] submission was submitted and accepted on March 14th, 2022 (Appendix R-3) and was assigned a project number of 22PR01760. On the same day, SHPO issued a first response (Appendix R-4) requesting a Project Zone of Visual Impact ("ZVI") analysis according to the SHPO guidelines for Solar Facility Development Cultural Resources Survey Work. YSG issued a response (Appendix R-5) to SHPO on April 14th, 2022 including photos and property details of each adjacent property to the site that is knowingly 50 years or older, including the Project site itself.

On May 5th, 2022, SHPO issued a second response (Appendix R-6) asking Briarcliff Solar to reconsider the demolition of the Philips Research Facility that is currently on site. However, Briarcliff Solar stands behind the decision to demolish the existing facility due to a number of safety hazards and concerns that has raised as a result of the building remaining standing. The abandoned building has been known to be a danger to local in the past as it attracts trespassers who have vandalized property and partaken in illegal activities on site. Refer to site photos. The current building condition is less than standard for any other potential use. Briarcliff Solar has ensured that all site plans were updated as per SHPO requirements to show the Old Croton Aqueduct boundaries on the site plans as well as all proposed fencing and screening methods.

YSG believes that it is in the best interest of the Project and local community members to demolish the existing facility due to the crime occurrences that have taken place as recently as May 2022. As indicated in "People vs Ridgewood Real Estate Partners (345 Scarborough Rd)", see Appendix R-7, the facility has been subject of litigation between the village of Briarcliff Manor and the previous owner. In the time since the building's occupancy the facility has fallen into disrepair and has been subject to repeated incidents of trespassing. On October 1, 2020 "as a result of the trespassers, a fire broke out in the main building and on its roof which required the

[5] https://cris.parks.ny.gov/

immediate response of village fire personnel as well as mutual aid response from as many as four surrounding municipalities involving 9 fire vehicles and approximately 80 volunteer firefighters."

Further, the premises has been deemed an unsafe structure, riddled with unsafe and/or vandalized equipment that results in the structure being unfit for human occupancy, in accordance with the 2020 Property Maintenance Code of New York State Section 107 "Unsafe Structures and Equipment".

During the week of May 2, 2022, the property management company has reported additional trespassing violations that has necessitated the resecuring of points of entry. Photos of the damage incurred to the building over the building's vacancy are provided in Appendix F.

In order to receive a final determination, Briarcliff Solar intends to draft and submit documentation (Appendix R-8), including existing conditions photographs and an engineer's report documenting structural failures, that will provide SHPO with proof that there are no other feasible locations for the proposed solar arrays that do not require the demolition of the on-site Philips Facility. SHPO's final determination is pending the review of the abovementioned material and data that prove demolition should be allowed for the safety of the community and implementation of renewable energy project within the village of Briarcliff Manor.

6.8 Noise

As abovementioned, the Project is located in Briarcliff Manor's Business district classified as a CT1 (Complementary Transition Use 1) Zone, with Residential Zones surrounding the property. Pursuant to the Village of Briarcliff Manor's Noise Control Law §146-5, in an emitter in a nonresidential zone cannot exceed, 65 dBA during the hours of 8:00 a.m. to 6:00 p.m. on weekdays and Saturdays; and ii) 50 dBA during the hours of 6:00 p.m. to 8:00 a.m. on weekdays and Saturdays, and at all times on Sundays and holidays.

The Facility will have limited noise-producing equipment onsite, consisting of the inverters and transformers. The Facility's noise levels are not anticipated to be greater than ~15 dBA, which is considerably quiet.

During the short-term construction period, Briarcliff Solar expects that some typical construction equipment noise will occur. However, such noise will in accordance Village of Briarcliff Manor's Noise Control Law §146-6, regulated activities, and will be limited to weekday, daytime construction hours, and will not exceed the Village's 65 dBA threshold.

6.9 Lighting

No exterior lighting is planned for the Facility. There will be some small, non-intrusive lighting fixtures within the equipment to aid in maintenance; however, Briarcliff Solar expects that such lighting will be minimal and will not impact nearby residences.

6.10 FAA Determination

The Federal Aviation Administration (the "FAA") conducted an aeronautical study for the Project under the provisions of 49 U.S.C., Section 44718 and Title 14 of the Code of Federal Regulations, part 77 by utilizing the online Notice Criteria Tool[6]. The Notice Criteria Tool results (Appendix S) dated March 10, 2022 revealed that the Project does not exceed obstruction standards and would not be a hazard to air navigation. No further filing was required by the FAA to study the Project further.

6.11 Project Visibility

The Project will have limited year- round visibility in areas within the immediate vicinity of the Site—primarily, those abutting properties to the northeast along Holbrook Road. These limited year-round visibilities will depend on the height of vegetation along the site perimeter. Briarcliff Solar has been proactively developing a detailed landscaping plan that will address any potential views from surrounding properties. In general, views of the Project will be limited due to the relatively low height of the Facility (the proposed panels are only nine feet tall), in conjunction with the existing, dense vegetation along the perimeter of the site being maintained.

Briarcliff Solar also notes that the proposed solar modules are designed to absorb incoming solar radiation and minimize reflectivity, such that only a small percentage (approximately two (2%) percent) of incidental light will be reflected off the panels. This incidental light is significantly less reflective than common building materials, such as steel, or the surface of smooth water. The panels will be tilted up toward the southern sky, thereby further reducing reflectivity/visibility of the Project in certain areas.

As such, Briarcliff Solar does not anticipate any adverse visual impacts will result from the development of the Project.

[6] https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm

7.0 CONCLUSION

As demonstrated by the foregoing, Briarcliff Solar's proposed Project will result in no air emissions, has been carefully designed to minimize natural resource impact(s), and complies with the applicable air and water quality standards of the Village of Briarcliff Manor, New York State DEC, New York SHPO, United States ACE, and United States FWS.

The Project satisfies the requisite standards, and in light of the benefits this Project will provide to the State of New York and the Village of Briarcliff Manor, Briarcliff Solar LLC respectfully requests that the Village of Briarcliff Manor declare the Village as Lead Agency in accordance with 6 NYCRR Part 617, State Environmental Quality Review and respectfully petitions the Village of Briarcliff Manor for a Special Use Permit or the proposed construction, operation and maintenance of two 5.0 megawatt-alternating current solar-based electric generating facilities located at 345 Scarborough Road, Briarcliff Manor, NY 10510, parcel number: 97.16-1-1.

Appendix A
Neighbor Notification Letter

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79 Madison Avenue 8th Floor
New York, New York 10016
Tel.: (212)-389-9215

November 15, 2021

Michael and Nancy Mezzacappa
43 Shadow Brook Lane
Briarcliff Manor, NY 10510

RE: Community Solar Garden Development Notification Letter

Dear Michael and Nancy Mezzacappa,

The purpose of this letter is to notify you of YSG Solar's intentions for the former Philips Research Facility located at 345 Scarborough Road in Briarcliff Manor. As a solar development company, YSG Solar is working with the owners of the former Philips Research Facility to demolish the vacant building and develop plans for the installation of a ground-mounted community solar garden on the parcel.

The proposed project is in the initial discovery stage and we have just commenced our evaluation process. The solar garden will produce clean power that will be interconnected to the local power company. The power company will provide us with an "energy credit" which local homeowners, renters, small and large businesses are capable of receiving as subscribers to the project. The proposed solar garden will meet all local state and federal planning and zoning regulations.

YSG Solar is a New York based organization and our standard practice is to seek input from neighbors and community members prior to moving forward with development. Enclosed within the envelope is a conceptual design drawing. As the project progresses we will prepare a formal landscaping plan which will illustrate how the solar panels will be screened from the viewshed. We strive to construct solar gardens that are beneficial to power companies, local communities, and local municipalities. YSG welcomes any communication from our neighbors.

If you have any comments, suggestions, or questions I encourage you to reach out to me directly. Feel free to contact me with your feedback at our office number with your: 212-389-9215, or by email at nadia.jagdat@ysgsolar.com.

Sincerely,

Nadia Jagdat

Nadia Jagdat
Development Associate
YSG Solar Development Company, LLC
212-389-9215 nadia.jagdat@ysgsolar.com

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Michael and Francine Verrilli
178 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 28

2. Article Number *(Transfer from service label)*
7021 0350 0001 3052 3138

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Verrill ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
11/23

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
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☐ Registered Mail Restricted Delivery
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For delivery information, visit our website at *www.usps.com®*.
Briarcliff Manor, NY 10510

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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $0.00
Postage $0.58
Total Postage and Fees $7.38
Sent To Michael and Francine Verrilli

ORCHARD PARK 14127
01127 15
NOV 17 2021
Postmark Here
11/17/2021

7021 0350 0001 3052 3138

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Kenneth and Doreen Cross
100 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 42

2. Article Number *(Transfer from service label)*
7021 0350 0001 3052 3114

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery
11/22

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If YES, enter delivery address below: ☐ No

3. Service Type
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☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

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Briarcliff Manor, NY 10510

OFFICIAL USE

Certified Mail Fee $3.75 $3.05
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $0.00
Postage $0.58
Total Postage and Fees $7.38
Sent To Kenneth and Doreen Cross

ORCHARD PARK 14127
01127 15
NOV 17 2021
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Howard Penn
94 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 66

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☐ Adult Signature Restricted Delivery $0.00
Postage $0.58
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Roger and Kathy Battacharia
16 Holbrook Road
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9590 9402 6647 1060 8378 91

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☐ Adult Signature Required	$	$0.00
☐ Adult Signature Restricted Delivery	$	
Postage	$0.58	
Total Postage and Fees	$7.38	
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Street and		

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Michael and Nancy Mezzacappa
43 Shadow Brook Lane
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 11

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Postage	$0.58	
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Street and		

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1. Article Addressed to:

Corina Rosenzweig
84 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6647 1060 8376 31

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1. Article Addressed to:

Howard Dale and Gorre Eirah
54 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 73

2. Article Number *(Transfer from service label)*

7021 0350 0001 3052 3084

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1. Article Addressed to:

Kenneth Dengler
90 Shadow Brook Lane
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 35

2. Article Number *(Transfer from service label)*

7021 0350 0001 3052 3121

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Total Postage and Fees	$7.38
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City, State, ZIP+4®	Briarcliff Manor, NY 10510

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1. Article Addressed to:

Philip Raclyn
309 Scarborough Road
Briarcliff Manor, NY 10510

9590 9402 6941 1104 8965 04

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7021 0350 0001 3052 3152

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☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.58
Total Postage and Fees	$7.38
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Street and Apt. No., or PO Box No.	309 Scarborough Road
City, State, ZIP+4®	Briarcliff Manor, NY 10510

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1. Article Addressed to:

Suzanne Whitmore
152 Holbrook Road
Briarcliff Manor, NY 10510

9590 9402 6647 1060 8379 07

2. Article Number *(Transfer from service label)*

7021 0350 0001 3052 3176

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X Cov 19 ☐ Agent ☐ Addressee

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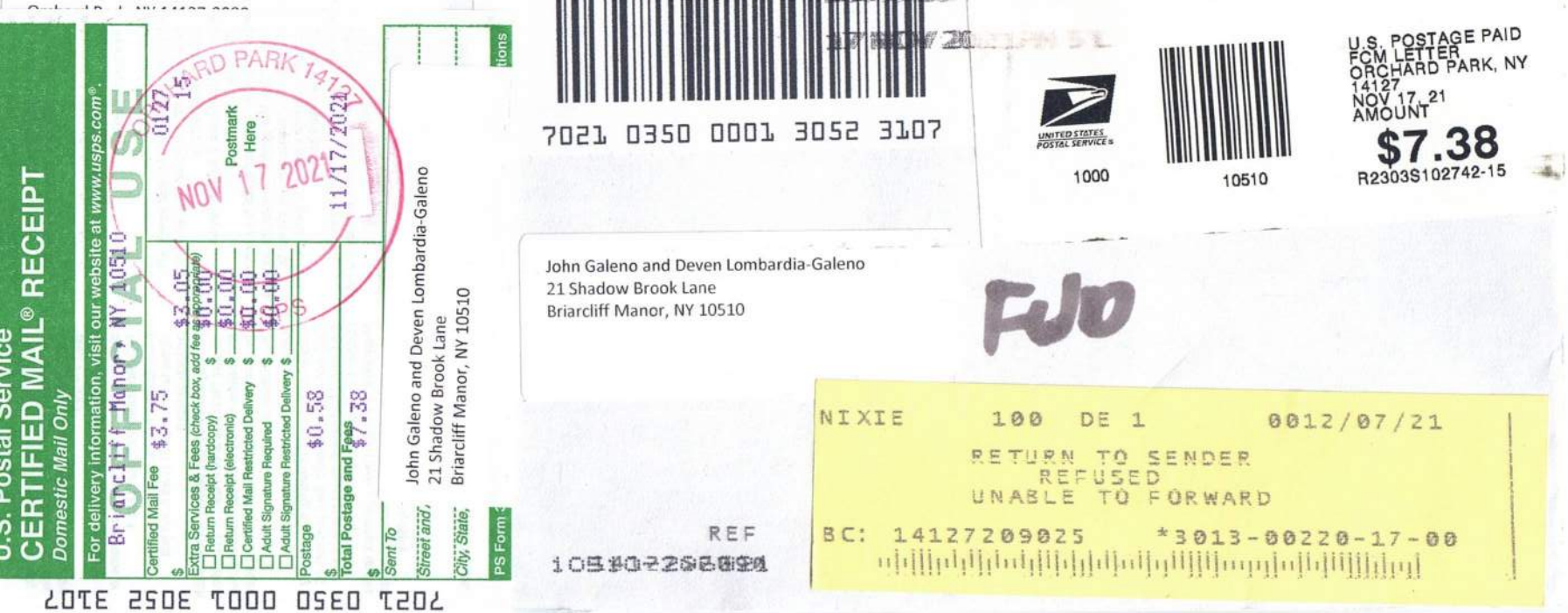
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Postage	$0.58
Total Postage and Fees	$7.38
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Total Postage and Fees $7.38
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Street and
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ORCHARD PARK 14127
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John Galeno and Deven Lombardia-Galeno
21 Shadow Brook Lane
Briarcliff Manor, NY 10510
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Briarcliff Manor, NY 10510
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Eric Johnson
120 Holbrook Road
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Appendix B
Asbestos Report

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Proactive by Design



ASBESTOS-CONTAINING MATERIALS EVALUATION REPORT UPDATE

Former Philips Research Facility
345 Scarborough Road
Briarcliff Manor, NY 10510

March 2018
File No. 41.0162512.10



PREPARED FOR:
Ridgewood Elmwood Owners, LLC
250A Hanover Road, Suite 310
Florham Park, NJ 07932

GZA GeoEnvironmental, Inc.
104 West 29th Street, 10th Floor | New York, NY 10001
(O) 212-594-8140

27 Offices Nationwide
www.gza.com

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Appendices

Appendix A - GZA Company and Inspector Certifications
Appendix B - 2017 Asbestos Laboratory Results and Certifications
Appendix C - 2018 Asbestos Laboratory Results and Certifications

1.00 INTRODUCTION

1.10 PROJECT AUTHORIZATION

This report presents the findings of an Asbestos-Containing Material (ACM) Evaluation update conducted by GZA GeoEnvironmental Inc. (GZA) within the currently vacant former Philips research facility located at 345 Scarborough Road, Briarcliff, New York (Site). This work was performed on behalf of Ridgewood Elmwood Owners, LLC (the Client) consistent with GZA Proposal No. 12.P000108.18 and approved on January 26, 2018.

1.20 PROJECT OBJECTIVE

The objective of this project was to update the due-diligence level ACM information presented in GZA's Phase I Environmental Site Assessment Report dated May 2017. GZA performed a supplemental ACM evaluation in February and March 2018, which involved locating, sampling, and quantifying previously inaccessible, suspect ACM by using intrusive sampling techniques. This report summarizes the findings of both evaluations performed by GZA.

2.00 SITE DESCRIPTION

The 98-acre Site is located at 345 Scarborough Road in Briarcliff Manor, NY and comprises four lots (Lots 1, 9, 10, and 11). The Site is improved with a residential building and garage on Lot 11 and the former Philips Research Facility on Lot 1 (345 Scarborough Road). The Research Facility consists of four main interconnected buildings (designated as Buildings A, B, C, and D), and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area.

3.00 SCOPE OF SERVICES

GZA's approved Scope of Services was to assess the presence of ACM through direct observations and testing. The scope of work involved visually identifying and classifying suspect materials, collecting representative samples for analysis, and integrating/reporting our findings in a written report. GZA inspected accessible structural components and interior spaces. Limitations to our scope are detailed in **Section 7.00**. As part of this updated evaluation, GZA performed an intrusive evaluation into representative interior solid walls and surfaces, ceilings and pipe chases, and equipment; and exterior façade walls, subsurface footings, and the roof of building D which is located below the patio.. The evaluation was conducted in accordance with the EPA publication, "Asbestos in Buildings," survey and sampling protocol as well as the National Emissions Standards for Hazardous Air Pollutants (NESHAPS). Please refer to **Appendix A** for GZA's Company and Inspector Certifications.

In this report, GZA estimates the type and quantity of ACM identified, and provides conclusions based upon observations of items that were identified.

This information can then be used to plan future demolition of the existing space.

4.00 SURVEY METHODOLOGIES AND RESULTS

4.10 DUE-DILIGENCE ASBESTOS EVALUATION RESULTS

In May 2017, GZA's ACM evaluation focused primarily on visible and accessible materials that included both friable (easily reduced to powder by hand pressure) and non-friable materials such as thermal system insulation, surface coatings, and miscellaneous materials that might contain asbestos. As the facility was not yet purchased by the Client, our due-dilligence evaluation did not evaluate the roofs, or building facades, nor was selective interior demolition into chases and soffits conducted as part of our evaluation.

Laboratory Testing Services (LTS) analyzed the bulk samples collected during the due-diligence evaluation using Polarized Light Microscopy with Dispersion Staining (PLM/DS). LTS is a participant in, and is accredited by, the National Voluntary Laboratory Accreditation Program. In conformance with the New York State Department of Health Environmental Laboratory Accreditation Program (ELAP), resilient non-friable organic bound (NOB) materials (e.g. floor tiles, asphaltic materials, etc.) were analyzed by Transmission Electron Microscopy (TEM) to confirm negative and inconclusive results. Copies of LTS's laboratory certifications are in **Appendix B.**

In total, 241 samples of suspect ACM were collected during the due-diligence evaluation throughout the six Site buildings evaluated.

Table 1 below summarizes the materials that tested positive for asbestos during the due diligence evaluation.

Table 1

Location	Material	Estimated Quantity
Holbrook House		
Basement	Pipe Packing	10 Square Feet (SF)
Maintenance Building		
No ACM identified associated with the Maintenance Building.		
Main Research Buildings (A, B, C and D)		
Throughout	Pipe Elbow Insulation (1" line)	400 ea.
Basement	Boiler Flue Insulation (Packing)	500 SF
Throughout	12-inch Brown with Brown and Tan Speckles VFT and Mastic	124,500 SF
Throughout	9-inch White VFT and Mastic	Inc.
Throughout	9-inch Tan VFT and Mastic	Inc.
Throughout	9-inch Tan and White VFT and Mastic	Inc.

Location	Material	Estimated Quantity
Throughout	9-inch Off White VFT and Mastic	Inc.
Throughout	9-inch White with Tan Lines VFT and Mastic	Inc.
Throughout	12-inch White with Brown Lines VFT and Mastic	Inc.
Exterior	Window Panel Caulking	21,250 LF
3rd and 4th Floors	Fibrous Spray-on fireproofing	29,900 SF
3rd and 4th Floors	Troweled-on I-Beam Fireproofing	200 SF
Room C2112	Adhesive under Wood Flooring	5,000 SF
Lavatories	Ceramic Tile Grout / Adhesive - ASSUMED	4,800 SF

SF = square feet; LF = linear feet; VFT = Vinyl Floor Tile; Ea. = Each; Inc. = Included in Total VFT quantity calculated above.

4.20 SUPPLEMENTAL ASBESTOS EVALUATION RESULTS

Subsequent to the completion of GZA's due-diligence evaluation, the Client purchased the Site and the buildings are vacant prior to redevelopment. A supplemental ACM evaluation was performed on February 16 and March 20, 2018 by GZA representative Benjamin Sallemi, Ph.D, CIH. Dr. Sallemi is a United States Environmental Protection Agency (EPA) trained Asbestos Inspector, who holds the New York State Department of Labor (NYSDOL) Asbestos Inspector certificate. In general, the purpose of the supplemental ACM evaluation was to investigate the suspect ACM previously identified, plus any additional material uncovered as part of the intrusive evaluation.

4.20.1 ASBESTOS SAMPLING PROCEDURES

The evaluation included an inspection for the materials previously identified, and for materials that may have been located behind representative interior solid walls and surfaces, ceilings and pipe chases, and equipment; and exterior façade walls, subsurface footings, and the roof of building D which is located below the patio. The inspection process consisted of the following steps:

- Inspection of areas for materials or products likely to contain asbestos;
- Delineation of homogeneous areas and determination of the locations for the collection of bulk samples;
- Collection of information about the location of ACM in the buildings, and physical characteristics that may affect the potential for ACM to be disturbed and release asbestos fibers; and
- Preparation of an inventory of suspect ACM including the location and analytical results from bulk samples.

Procedures for locating and identifying ACM were based on guidelines published by the EPA.[1] The EPA defines any material that contains greater than 1% by weight of actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite (40 CFR 61, Subpart M) as an ACM. GZA assumes that suspect ACM were uniform in composition to

[1] Environmental Protection Agency, Guidelines for Controlling Asbestos-Containing Materials in Buildings, Office of Pesticides and Toxic Substances, EPA Report Number 560/5-85-024, June 1985.

permit random sampling. Therefore, ACM sample locations are considered representative of the entire sampled material in each location where it is present.

There are three types of suspect ACM: Thermal System Insulation (TSI), Surfacing Materials (SM), and Miscellaneous Materials (MM). TSI are materials that resist heat flow, such as boiler, and duct and pipe insulation. SM is either sprayed or troweled-on material applied to a surface and includes fireproofing and plaster. MM are those that are not TSI or SM. Examples of MM include, but are not limited to, various forms of ceiling and floor tiles, drywall, and roofing. These three types may be found in either friable or non-friable condition. Friability refers to the tendency of a material to release fibers.

GZA performed the fieldwork under a Site-specific Health & Safety Plan (HASP). GZA collected the bulk samples wearing appropriate Personal Protection Equipment (PPE). Collected samples were placed in individual re-sealable plastic bags, wet wiped of visible debris, uniquely identified, recorded, and delivered to an accredited laboratory for analysis under chain-of-custody protocol.

Additional sampling, although unlikely, may be necessary during planned demolition activities for materials not identified during this survey. Should any unidentified suspect ACM be uncovered, activities should cease in the area and bulk samples of the suspected material should be collected for laboratory analysis. Suspect ACM uncovered should be assumed to be ACM until documented to be non-asbestos containing material by a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory.

4.20.2 SAMPLE ANALYSIS

Similar to the due diligence evaluation, GZA subcontracted to LTS for ACM laboratory analyses. LTS analyzed the bulk samples using PLM/DS. Resilient non-friable NOB materials, such as vinyl floor tile materials, and materials comprised of cellulose, underwent gravimetric reduction prior to PLM analysis. If the PLM analysis of NOB or cellulose-containing samples was negative, then TEM analysis was used to confirm negative and inconclusive results. Please refer to **Appendix C** for LTS's 2018 laboratory reports and certifications.

4.20.3 ASBESTOS ANALYTICAL RESULTS

In total, for the previous and current ACM evaluation, 253 samples of suspect ACM were collected at the Site from 113 suspect materials. ACM was identified in 15 of these suspect materials during this evaluation. The analytical laboratory reports are provided in **Appendix C**. The following ACM was identified using laboratory analysis:

- Holbrook House
  - Pipe Packing, 10 Square feet (SF)
- Maintenance Building
  - No ACM identified
- Main Research Buildings (A, B, C and D)
  - Pipe Elbow Insulation (1" line throughout, and <1" in Boiler/Mechanical Rooms) - 1,000 ea.
  - Boiler Flue Insulation (Packing) - 500 SF, Basement
  - 12-inch Brown with Brown and Tan Speckles VFT and Mastic - 124,500 SF, throughout interior
  - 9-inch White VFT and Mastic – Included above
  - 9-inch Tan VFT and Mastic – Included above

- 9-inch Tan and White VFT and Mastic – Included above
- 9-inch Off White VFT and Mastic – Included above
- 9-inch White with Tan Lines VFT and Mastic – Included above
- 12-inch White with Brown Lines VFT and Mastic – Included above
- Window Panel Caulking – 21,250 Linear Feet (LF), Exterior Façade, including Penthouses
- Fibrous Spray-on fireproofing – 29,900 SF, 3rd & 4th Floors
- Troweled-on I-Beam Fireproofing – 500 SF, 1st & 2nd Floors
- Circular Transite Duct in Service Corridors – 4th Floor, 50 LF
- Adhesive under Wood Flooring – 5,000 SF, Room C2112

4.20.4 ASBESTOS ABATEMENT REGULATIONS

Actions taken regarding the ACM identified must be in compliance with any applicable federal, state, and local regulations that may apply to the removal, handling and disposal, and contracting. Presently, general demolition and disposal operations at privately owned and operated facilities in the State of New York are regulated by the federal EPA's NESHAP Asbestos Standard (40 CFR 61, Subpart M), and the New York State Department of Labor Industrial Code Rule 56. Furthermore, the State of New York requires that only contractors licensed by the Department of Labor can perform asbestos abatement work. Additionally, the oversight of the removal of ACM must be performed by an independent third-party project-monitoring firm. Private contractors, which may be retained for the building renovation, are additionally under jurisdiction of the Occupational Safety and Health Administration (OSHA) asbestos regulations (29 CFR 1910.1001 and 29 CFR 1926.1101), for the general and construction industries, respectively.

5.00 CONCLUSIONS

Based on the results of two ACM evaluations conducted at the Site, which included a combined 253 laboratory analyses of suspect ACM, GZA identified ACM in 15 of the suspect materials identified during this evaluation. The location of materials in the Main Research Buildings are shown on **Figures 1** through **5**. The following ACM was identified:

Location	Material	Estimated Quantity
Holbrook House		
Basement	Pipe Packing	10 Square Feet (SF)
Maintenance Building		
No ACM identified associated with the Maintenance Building.		
Main Research Buildings (A, B, C and D)		
Throughout (including Penthouses)	Pipe Elbow Insulation (1" line)	1,000 ea.
Basement	Boiler Flue Insulation (Packing)	500 SF

Location	Material	Estimated Quantity
Throughout	12-inch Brown with Brown and Tan Speckles VFT and Mastic	124,500 SF
Throughout	9-inch White VFT and Mastic	Inc.
Throughout	9-inch Tan VFT and Mastic	Inc.
Throughout	9-inch Tan and White VFT and Mastic	Inc.
Throughout	9-inch Off White VFT and Mastic	Inc.
Throughout	9-inch White with Tan Lines VFT and Mastic	Inc.
Throughout	12-inch White with Brown Lines VFT and Mastic	Inc.
Exterior	Window Panel Caulking	21,250 LF
3rd and 4th Floors	Fibrous Spray-on fireproofing	29,900 SF
1st and 2nd Floors	Troweled-on I-Beam Fireproofing	500 SF
4th Floor	Circular Transite Duct in Service Corridors	50 LF
Room C2112	Adhesive under Wood Flooring	5,000 SF

6.00 RECOMMENDATIONS

Actions taken regarding the ACM identified must be in compliance with any applicable federal, state, and local regulations that may apply to the removal, handling and disposal, and contracting. Presently, general demolition and disposal operations at privately owned and operated facilities in the State of New York are regulated by the federal EPA's NESHAP Asbestos Standard (40 CFR 61, Subpart M), and the New York State Department of Labor Industrial Code Rule 56. Furthermore, the State of New York requires that only contractors licensed by the Department of Labor can perform asbestos abatement work. Additionally, the oversight of the removal of ACM must be performed by an independent third-party project-monitoring firm. Private contractors, which may be retained for the building renovation, are additionally under jurisdiction of the Occupational Safety and Health Administration (OSHA) asbestos regulations (29 CFR 1910.1001 and 29 CFR 1926.1101), for the general and construction industries, respectively.

7.00 LIMITATIONS

1. This survey report, which presents our findings, is not to be used as a bid document/work plan, or in place of a work plan, for conducting asbestos abatement. When an asbestos abatement work plan is prepared, it is required that the plan be prepared by an EPA-certified Asbestos Project Designer.

2. The observations described in this report were made under the conditions stated herein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the proposed Scope of Services.

3. The conclusions and recommendations contained in this report are based on limited environmental sampling and visual observations, and were arrived in accordance with generally accepted standards of industrial hygiene practice. No other warranty, expressed or implied, is made.

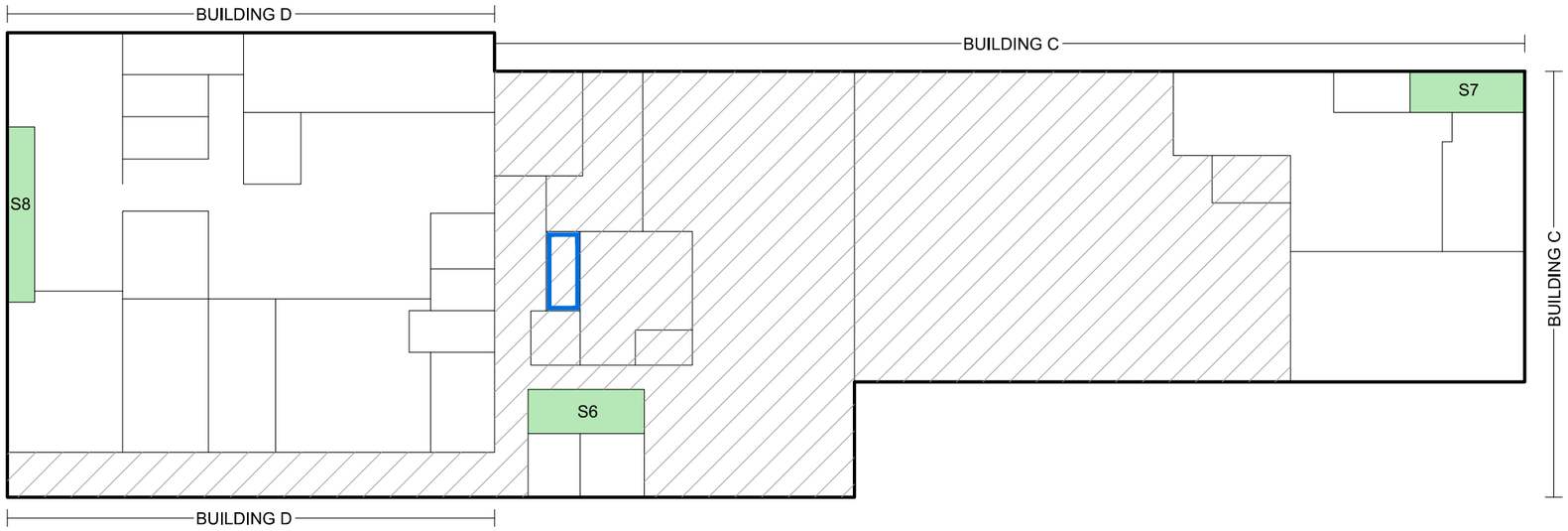
4. Where sample analysis was conducted by an outside laboratory, GZA has relied upon the data provided, and did not conduct an independent evaluation of the reliability of this data.

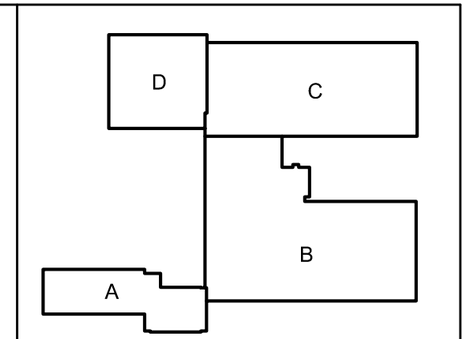
5. The purpose of this report was to assess the physical characteristics of the subject Site with respect to the presence of the specified hazardous materials in the Site building.

6. Observations were made of the Site as indicated within the report. While it was GZA's intent to conduct a thorough survey, it is important to note that we cannot guarantee that all asbestos or potentially hazardous materials within the surveyed area have been identified. ACM have frequently been used in areas where detection is difficult until demolition, and/or asbestos abatement work begins and allows access to these remote areas.

7. GZA's selection of bulk sample locations and frequency of sampling was based on our observations and the assumption that like materials in the same area are homogeneous in content.

Figures





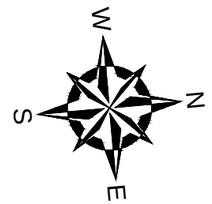
KEY MAP:
1" = 150'

LEGEND:

- BUILDING
- VINYL FLOOR TILE AND MASTIC
- SPORADIC FIREPROOFING ON BEAMS, AND THERMAL INSULATION ON ELBOWS AND BOILER PACKING
- PIPE FITTING INSULATION LOCATED IN BATHROOM PIPE CHASES
- S# STAIRWELL

NOTES:

1. THE BASE MAP WAS DEVELOPED FROM AN ELECTRONIC FILE ENTITLED "LOCATION OF ASBESTOS," DATED 5/10/2004, DRAWING NUMBER: APPENDIX B1.
2. EXTERIOR FACADE WINDOW CAULKING IS ACM, AND EXTERIOR FACADE STONE SEAM CAULKING MATERIAL IS PCB CONTAINING.



0 15' 30' 60'
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

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345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NEW YORK

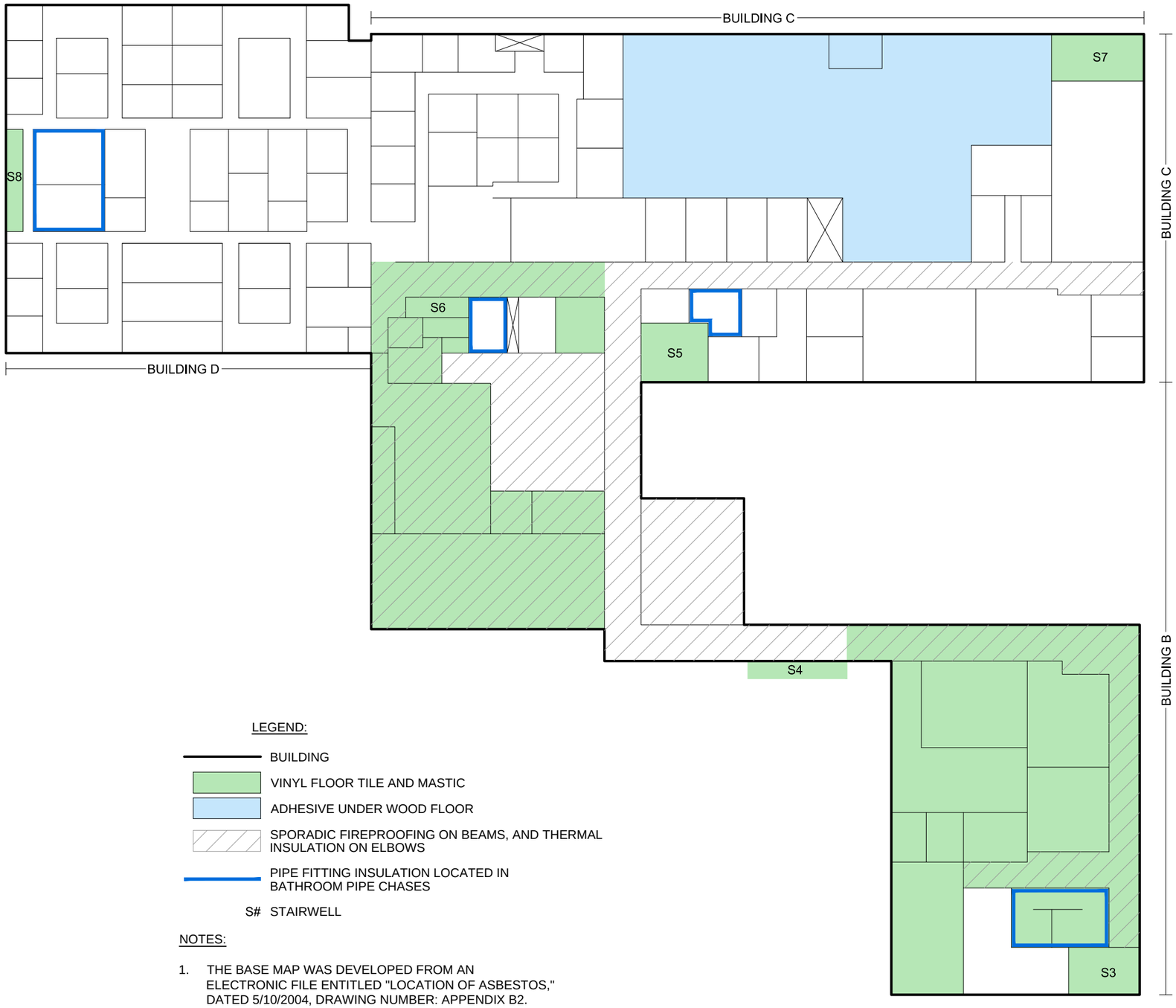
SITE PLAN - FIRST LEVEL

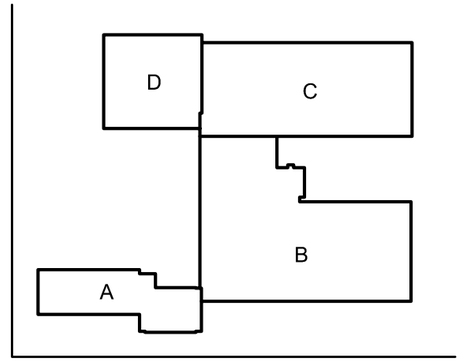
PREPARED BY:
GZA GeoEnvironmental of NY
Engineers and Scientists
www.gza.com

PREPARED FOR:
RIDGEWOOD REAL ESTATE PARTNERS

PROJ MGR: BS	REVIEWED BY: BS	CHECKED BY: SK	FIGURE 1
DESIGNED BY: BS	DRAWN BY: MT	SCALE: 1" = 30'	
DATE: MARCH 2018	PROJECT NO. 41.0162512.10	REVISION NO.	SHEET NO.

©2018 – GZA GeoEnvironmental, Inc. GZA–J:\162500'S\41.0162512.10\FIGURES\CAD\162512.10.001.DWG FIG–1 MARCH 28, 2018 MIGUEL TORRES





KEY MAP:
1" = 150'

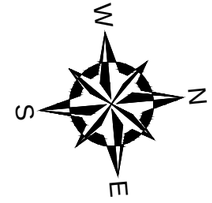
LEGEND:

- BUILDING
- VINYL FLOOR TILE AND MASTIC
- ADHESIVE UNDER WOOD FLOOR
- SPORADIC FIREPROOFING ON BEAMS, AND THERMAL INSULATION ON ELBOWS
- PIPE FITTING INSULATION LOCATED IN BATHROOM PIPE CHASES
- S# STAIRWELL

NOTES:

1. THE BASE MAP WAS DEVELOPED FROM AN ELECTRONIC FILE ENTITLED "LOCATION OF ASBESTOS," DATED 5/10/2004, DRAWING NUMBER: APPENDIX B2.

2. EXTERIOR FACADE WINDOW CAULKING IS ACM, AND EXTERIOR FACADE STONE SEAM CAULKING MATERIAL IS PCB CONTAINING.



0 15' 30' 60'
SCALE IN FEET

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BRIARCLIFF MANOR, NEW YORK

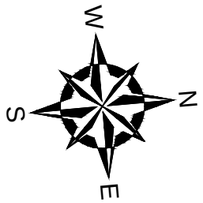
SITE PLAN - SECOND LEVEL

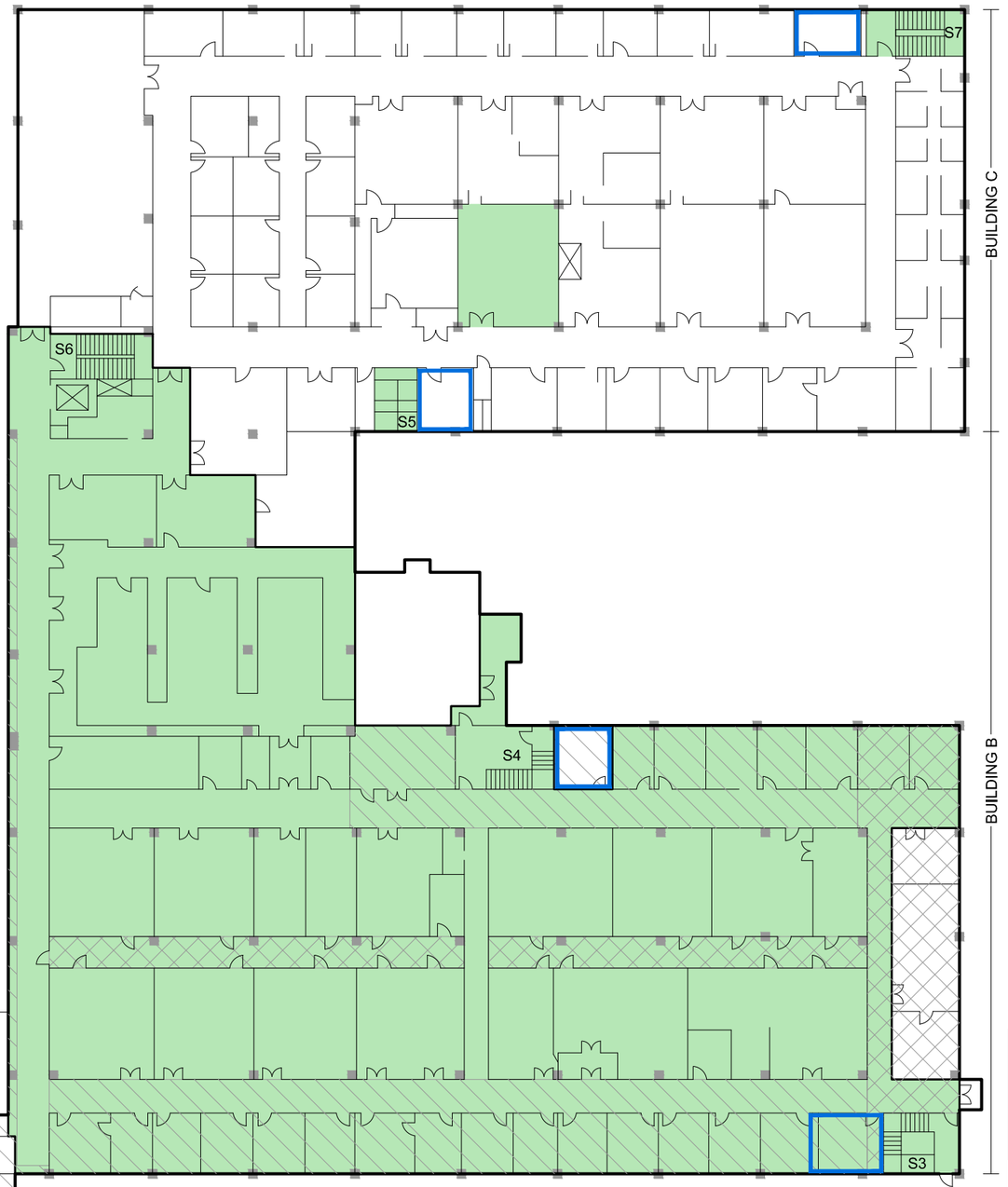
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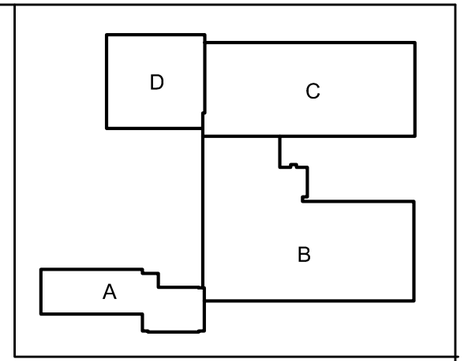
PREPARED FOR:
RIDGEWOOD REAL ESTATE PARTNERS

PROJ MGR: BS	REVIEWED BY: BS	CHECKED BY: SK	FIGURE 2
DESIGNED BY: BS	DRAWN BY: MT	SCALE: 1" = 30'	
DATE: MARCH 2018	PROJECT NO. 41.0162512.10	REVISION NO.	SHEET NO.

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KEY MAP:
1" = 150'

LEGEND:

- BUILDING
- COLUMN
- VINYL FLOOR TILE AND MASTIC
- THERMAL INSULATION ON ELBOWS
- SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATION ON ELBOWS
- PIPE FITTING INSULATION LOCATED IN BATHROOM PIPE CHASES
- S# STAIRWELL

NOTES:

1. THE BASE MAP WAS DEVELOPED FROM AN ELECTRONIC FILE PROVIDED BY BALLINGER ARCHITECTS, ENTITLED "PHILIPS LABORATORIES HVAC UPGRADE PRELIMINARY DESIGN - THIRD LEVEL," DATED 1/5/87.
2. EXTERIOR FACADE WINDOW CAULKING IS ACM, AND EXTERIOR FACADE STONE SEAM CAULKING MATERIAL IS PCB CONTAINING.

0 15' 30' 60'
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

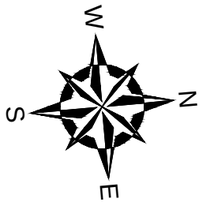
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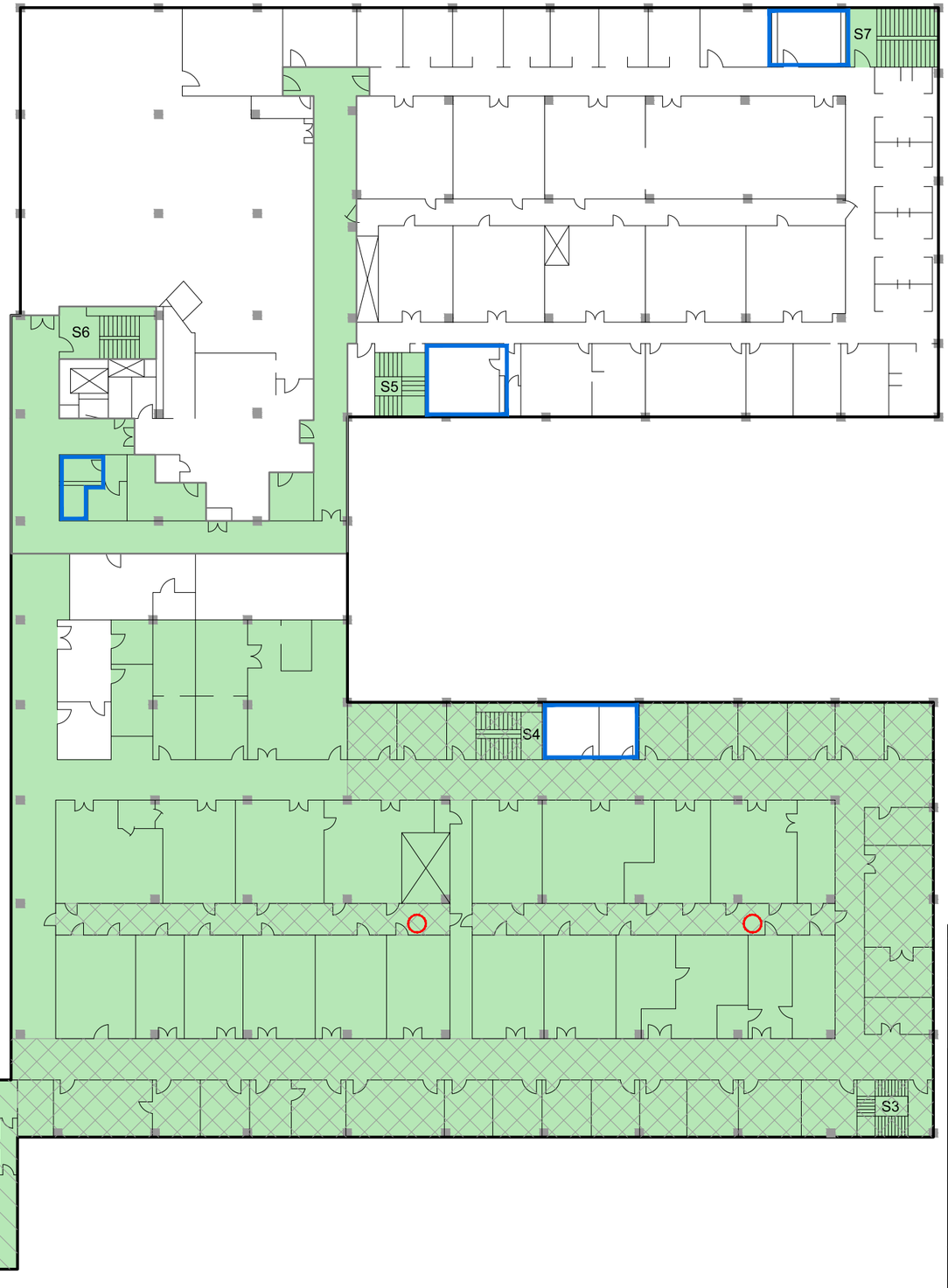
345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NEW YORK

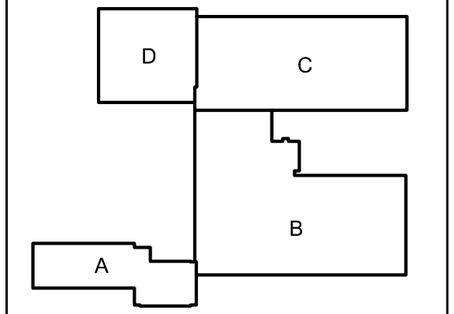
SITE PLAN - THIRD LEVEL

PREPARED BY:	PREPARED FOR:		
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	RIDGEWOOD REAL ESTATE PARTNERS		
PROJ MGR: BS	REVIEWED BY: BS	CHECKED BY: SK	FIGURE 3
DESIGNED BY: BS	DRAWN BY: MT	SCALE: 1" = 30'	
DATE: MARCH 2018	PROJECT NO. 41.0162512.10	REVISION NO.	SHEET NO.

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KEY MAP:
1" = 150'

LEGEND:

- BUILDING
- COLUMN
- VINYL FLOOR TILE AND MASTIC
- THERMAL INSULATION ON ELBOWS
- SPRAY-APPLIED FIREPROOFING
- PIPE FITTING INSULATION LOCATED IN BATHROOM PIPE CHASES
- CIRCULAR TRANSITE DUCT IN SERVICE CORRIDOR
- S# STAIRWELL

NOTES:

1. THE BASE MAP WAS DEVELOPED FROM AN ELECTRONIC FILE PROVIDED BY BALLINGER ARCHITECTS, ENTITLED "PHILIPS LABORATORIES HVAC UPGRADE PRELIMINARY DESIGN - FOURTH LEVEL," DATED 1/5/88.
2. EXTERIOR FACADE WINDOW CAULKING IS ACM, AND EXTERIOR FACADE STONE SEAM CAULKING MATERIAL IS PCB CONTAINING.

0 15' 30' 60'
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

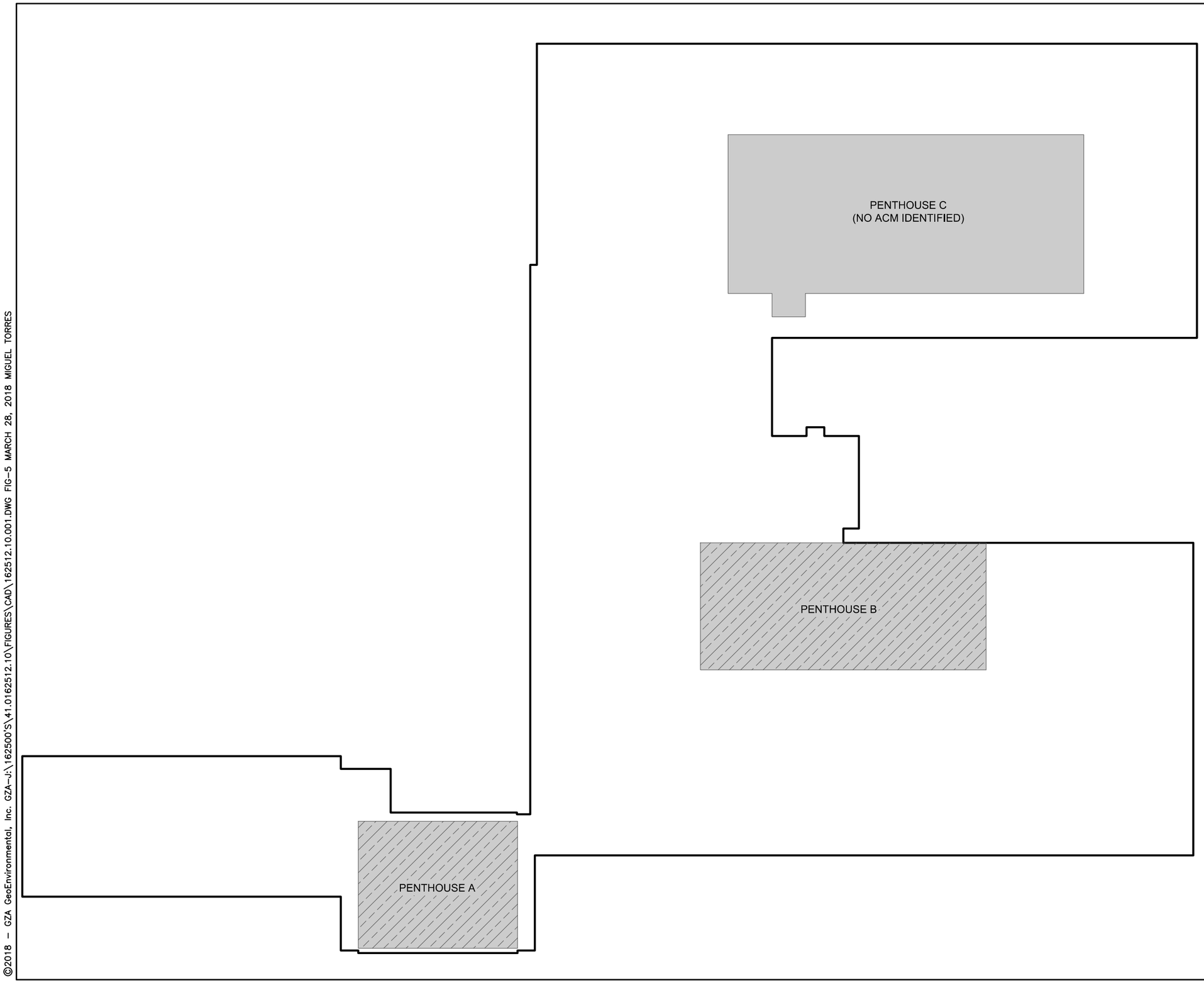
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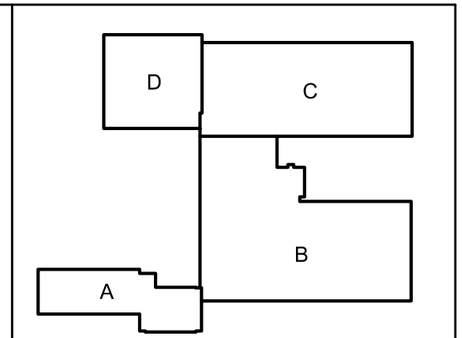
345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NEW YORK

SITE PLAN - FOURTH LEVEL

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: RIDGEWOOD REAL ESTATE PARTNERS	
PROJ MGR: BS	REVIEWED BY: BS	CHECKED BY: SK	FIGURE 4
DESIGNED BY: BS	DRAWN BY: MT	SCALE: 1" = 30'	
DATE: MARCH 2018	PROJECT NO. 41.0162512.10	REVISION NO.	SHEET NO.

©2018 – GZA GeoEnvironmental, Inc. GZA–J:\162500'S\41.0162512.10\FIGURES\CAD\162512.10.001.DWG FIG–4 MARCH 28, 2018 MIGUEL TORRES





KEY MAP:
1" = 150'

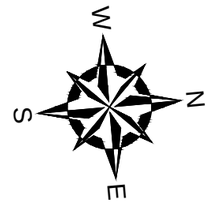
LEGEND:

BUILDING

ACM ASSOCIATED WITH HOT WATER PIPING, ELBOWS AND BEAMS

NOTES:

1. THE BASE MAP WAS DEVELOPED FROM AN ELECTRONIC FILE PROVIDED BY BALLINGER ARCHITECTS, ENTITLED "PHILIPS LABORATORIES HVAC UPGRADE PRELIMINARY DESIGN - FOURTH LEVEL," DATED 1/5/88.
2. EXTERIOR FACADE WINDOW CAULKING IS ACM, AND EXTERIOR FACADE STONE SEAM CAULKING MATERIAL IS PCB CONTAINING.



0 15' 30' 60'

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

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345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NEW YORK

SITE PLAN - PENTHOUSES

PREPARED BY:
GZA GeoEnvironmental of NY
Engineers and Scientists
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PREPARED FOR:
RIDGEWOOD REAL ESTATE PARTNERS

PROJ MGR: BS	REVIEWED BY: BS	CHECKED BY: SK	FIGURE 5
DESIGNED BY: BS	DRAWN BY: MT	SCALE: 1" = 30'	
DATE: MARCH 2018	PROJECT NO. 41.0162512.10	REVISION NO.	SHEET NO.

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Appendix A - GZA Company and Inspector Certifications

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

GZA GeoEnvironmental Of New York
Suite 407
55 Lane Road

Fairfield, NJ 07004

FILE NUMBER: 03-0507
LICENSE NUMBER: 29273
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 08/10/2017
EXPIRATION DATE: 08/31/2018

Duly Authorized Representative – Benjamin M Sallemi:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

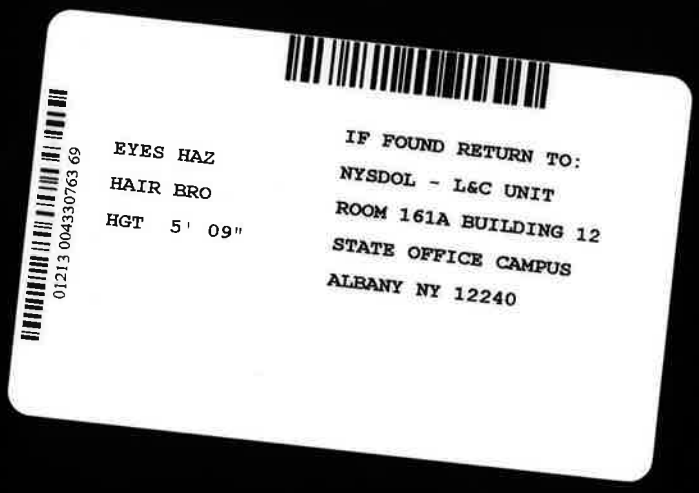
N.Y.S



ADAM R SPAULDING
CLASS(EXPIRES)
C ATEC(11/17) D INSP(11/17)
H PM (11/17)

CERT# 13-04031
DMV# 750602124

MUST BE CARRIED ON ASBESTOS PROJECTS


01213 004330763 69
EYES HAZ
HAIR BRO
HGT 5' 09"
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S



BENJAMIN M SALLEMI
CLASS(EXPIRES)
C ATEC(08/18) B INSP(08/18)
E MGPL(08/18) H PM (08/18)

CERT# 90-15278
DMV# 156581036

MUST BE CARRIED ON ASBESTOS PROJECTS

Appendix B - 2017 Asbestos Laboratory Results and Certifications

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarborough Road, Briarcliff Manor

Laboratory ID: 17-05-086 | **Date of Report:** 05/10/17 | **Date of Analysis:** 05/10/17, 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
01-01 17-05-086-01	A	GR	E			Exterior Trowled on S. Wall Material	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
01-02 17-05-086-02	A	GR	E			Exterior Trowled on S Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
01-03 17-05-086-03	A	GR	E			Exterior Trowled on W Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
01-04 17-05-086-04	A	GR	E			Exterior Trowled on W Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
01-05 17-05-086-05	A	GR	E			Exterior Trowled on N Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
02-06 17-05-086-06	A	GR	E			Trowled on Dk. Gray on Patch Material on W Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												

Laboratory Testing Services

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Road, Briarcliff Manor	
Laboratory ID: 17-05-086	**Date of Report:** 05/10/17	**Date of Analysis:** 05/10/17, 05/11/17	

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
02-07 17-05-086-07	A	GR	E			Trowled on Dk. Gray on Patch Material on W Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
02-08 17-05-086-08	A	GR	E			Trowled on Dk. Gray on Patch Material on W Wall	100.00	NAD							NAD
	B	1	F												
	C	198.1	G												
	D		H												
03-09 17-05-086-09	A	GR	E			Exterior Window Caulking				17.98	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
03-10 17-05-086-10	A	GR	E			Exterior Window Caulking				15.37	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
04-11 17-05-086-11	A	BK	E			Roof Roll (Shingle Material) Storage Shed Roof Adjacent				22.54	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
04-12 17-05-086-12	A	BK	E			Roof Roll (Shingle Material) Storage Shed Roof Adjacent				30.67	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004									**Project:** 345 Scarborough Road, Briarcliff Manor									
Laboratory ID: 17-05-086					**Date of Report:** 05/10/17				**Date of Analysis:** 05/10/17, 05/11/17									
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% AII**	**% PLM NOB Results**				**% TEM NOB Results**				**% TOTAL Asbestos**
05-13	A	GR	E		Brick Mortar - W Wall	100.00	NAD											**NAD**
	B	1	F															
17-05-086-13	C	198.1	G															
	D		H															
05-14	A	GR	E		Brick Mortar - W Wall	100.00	NAD											**NAD**
	B	1	F															
17-05-086-14	C	198.1	G															
	D		H															

Laboratory Testing Services

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Road, Briarcliff Manor
Laboratory ID: 17-05-086	**Date of Report:** 05/10/17	**Date of Analysis:** 05/10/17, 05/11/17

PLM ANALYST	PLM-NOB ANALYST	TEM-NOB ANALYST	LABORATORY DIRECTOR
M. Young	K. Gibson	E. Loukianova	E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, ELAP 10955

- Samples will be stored for sixty (60) days. LTS Inc. should be notified within this time frame for a true duplicate analysis.
- Above results relate only to samples submitted and analyzed. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of LTS Inc.
- The liability of LTS Inc., with respect to the services charged, shall in no event exceed the amount of the invoice.
- Analytical Methodologies: EPA 600/M4-82-020 (Point Count only) and ELAP Methods 198.1, 198.4,198.6.
- NAD: No Asbestos Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

Chain of Custody

GZA GeoEnvironmental, Inc. 17-05-86
55 Lane Road, Fairfield, NJ 07004
Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

Contact:
Name: Benjamin Sallemi / ~~Chris Pierce~~ POSTPONED
Company: GZA GeoEnvironmental, Inc.
Address: 55 Lane Road, Fairfield, NJ 07004
Phone: Ext. Fax: 973-774-3350
Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: 5-3-17 Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area — maintenance

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable		[X] Asbestos, PLM - NOB	[X] Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe	

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
1	1-1	exterior trowled on mortar S wall	No Yes	~~35~~ 500 sf ~~PLM NAD~~ ~~350sf~~ (NAD)
	1-2	S wall	No Yes	
	1-3	W wall	No Yes	
	1-4	↓	No Yes	
	1-5	N wall	No Yes	↓ ↓
2	2-6	trowled on dk gray patch mortar	No Yes	100 sf (-) NAD
	2-7	W wall	No Yes	↓
	2-8	↓	No Yes	↓
3	3-9	exterior window caulk	No Yes	75 lf (-)
	3-10		No Yes	↓NAD
4	4-11	roof roll (style mineral)	No Yes	250 sf (-)
	4-12	↓	No Yes	↓ ↓NAD
5	5-13	brick mortar - W wall	No Yes	(-) NAD
	5-14	↓	No Yes	↓
			No Yes	

NOB TEM

Asbestos above ↓NAD ↓NAD (-) ↓NAD ↓NAD

Relinquished By: Date: 5-8-17 19:30
Received By: Date:
Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by E. Loskianova 5.11.17

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Road, Briarcliff Manor
Laboratory ID: 17-05-087	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
1-1 17-05-087-01	A	GR	E			12 x 18" VFT 1st Flr B/R E				10.81	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
1-2 17-05-087-02	A	GR	E			12 x 18" VFT 1st Flr B/R E				11.64	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
2-3 17-05-087-03	A	BR	E			Adhesive assoc. VFT w/ HA-1				8.25	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
2-4 17-05-087-04	A	BR	E			Adhesive assoc. VFT w/ HA-1				10.41	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
3-5 17-05-087-05	A	GR	E			Grey Core Base 1st Flr B/R E				0.62	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
3-6 17-05-087-06	A	GR	E			Grey Core Base 1st Flr B/R E				0.99	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												

BULK ASBESTOS TEST REPORT

| | | |

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Road, Briarcliff Manor
Laboratory ID: 17-05-087	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
7-13	A	WH	E		Joint Tape Bsmt W	10.00	NAD							NAD
	B	1	F											
17-05-087-13	C	198.1	G											
	D	90	H											
7-14	A	WH	E		Joint Tape Bsmt E	10.00	NAD							NAD
	B	1	F											
17-05-087-14	C	198.1	G											
	D	90	H											
8-15	A	WH/GR	E		Pipe Packing Bsmt Wall N	98.75	1.25	CH						1.25
	B	2	F											
17-05-087-15	C	198.1	G											
	D		H											
8-16	A		E		Pipe Packing Bsmt Wall W		NA							SAFP
	B		F											
17-05-087-16	C		G											
	D		H											
8-17	A		E		Pipe Packing Bsmt Wall W		NA							SAFP
	B		F											
17-05-087-17	C		G											
	D		H											
9-18	A	GR	E		CMU Mortar W Wall	100.00	NAD							NAD
	B	1	F											
17-05-087-18	C	198.1	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarborough Road, Briarcliff Manor

Laboratory ID: 17-05-087 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
9-19 / 17-05-087-19	A	GR	E		CMU Mortar W Wall	100.00	NAD							NAD
	B	1	F											
	C	198.1	G											
	D		H											
10-20 / 17-05-087-20	A	GR	E		Fire Brick Mortar Fireplace Bsmt S Room	100.00	NAD							NAD
	B	1	F											
	C	198.1	G											
	D		H											
10-21 / 17-05-087-21	A	GR	E		Fire Brick Mortar Fireplace Bsmt S Room	100.00	NAD							NAD
	B	1	F											
	C	198.1	G											
	D		H											
10-22 / 17-05-087-22	A	GR	E		Fire Brick Mortar Fireplace Bsmt S Room	100.00	NAD							NAD
	B	1	F											
	C	198.1	G											
	D		H											
11-23 / 17-05-087-23	A	BK	E		Roof Shingles Front of House - Top Layer W				35.86	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
11-24 / 17-05-087-24	A	BK	E		Roof Shingles Front of House - Top Layer W				27.34	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarborough Road, Briarcliff Manor

Laboratory ID: 17-05-087 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
12-25 17-05-087-25	A	BK	E		Roof Shingles - 2nd Layer				36.27	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
12-26 17-05-087-26	A	BK	E		Roof Shingles - 2nd Layer				35.96	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
13-27 17-05-087-27	A	BK	E		Roofing Paper				37.01	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
13-28 17-05-087-28	A	BK	E		Roofing Paper				29.93	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
14-29 17-05-087-29	A	BK	E		Roofing Tar (On Shingles)				39.43	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
14-30 17-05-087-30	A	BK	E		Roofing Tar (On Shingles)				32.98	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004							**Project:** 345 Scarborough Road, Briarcliff Manor										
Laboratory ID: 17-05-087					**Date of Report:** 05/11/17		**Date of Analysis:** 05/11/17										
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**			
15-31 17-05-087-31	A	BK	E		Black Ext. Door Caulk 2nd Flr Deck W				5.54	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														
15-32 17-05-087-32	A	BK	E		Black Ext. Door Caulk 2nd Flr Deck W				5.17	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														
16-33 17-05-087-33	A	WH	E		Off White Wallpaper 2nd Flr Stairwell				7.34	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														
16-34 17-05-087-34	A	WH	E		Off White Wallpaper 2nd Flr Stairwell				5.29	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														
17-35 17-05-087-35	A	Y	E		Wallpaper Glue 2nd Flr Stairwell				6.28	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														
17-36 17-05-087-36	A	Y	E		Wallpaper Glue 2nd Flr Stairwell				7.37	NAD		NAD		**NAD**			
	B	1	F														
	C	198.4/6	G														
	D		H														

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004								**Project:** 345 Scarborough Road, Briarcliff Manor											
Laboratory ID: 17-05-087						**Date of Report:** 05/11/17						**Date of Analysis:** 05/11/17							
Client ID # Lab ID #	**Stereomicroscope Analysis**					**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**		**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**			
I8-37	A	BK	E			Exterior Tar Paper S/W Vapor Barrier Front of House				0.30		NAD		NAD		**NAD**			
	B	1	F																
I7-05-087-37	C	198.4/6	G																
	D		H																
I8-38	A	BK	E			Exterior Tar Paper N/W Vapor Barrier Front of House				0.39		NAD		NAD		**NAD**			
	B	1	F																
I7-05-087-38	C	198.4/6	G																
	D		H																
19-39	A	GR	E			Front Porch Mortar	100.00	NAD								**NAD**			
	B	1	F																
17-05-087-39	C	198.1	G																
	D		H																
19-40	A	GR	E			Front Porch Mortar	100.00	NAD								**NAD**			
	B	1	F																
17-05-087-40	C	198.1	G																
	D		H																
20-41	A	BK	E			Garage Vapor Barrier CMU Doors N				0.45		NAD		NAD		**NAD**			
	B	1	F																
17-05-087-41	C	198.4/6	G																
	D		H																
20-42	A	BK	E			Garage Vapor Barrier CMU Doors N				5.00		NAD		NAD		**NAD**			
	B	1	F																
17-05-087-42	C	198.4/6	G																
	D		H																

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004									**Project:** 345 Scarborough Road, Briarcliff Manor									
Laboratory ID: 17-05-087						**Date of Report:** 05/11/17			**Date of Analysis:** 05/11/17									
Client ID # Lab ID #	**Stereomicroscope Analysis**					**Sample Description**	**% Non-Fibrous Material**		**% Friable Results**		**% AII**	**% PLM NOB Results**		**% TEM NOB Results**			**% TOTAL Asbestos**	
21-43 17-05-087-43	A	GR/BR	E			Gypsum Wallboard - W Wall	60.00		NAD									NAD
	B	2	F															
	C	198.1	G															
	D	40	H															
21-44 17-05-087-44	A	GR/BR	E			Gypsum Wallboard - W Wall	65.00		NAD									NAD
	B	2	F															
	C	198.1	G															
	D	35	H															
21-45 17-05-087-45	A	GR/BR	E			Gypsum Wallboard - W Wall	75.00		NAD									NAD
	B	2	F															
	C	198.1	G															
	D	25	H															

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Road, Briarcliff Manor
Laboratory ID: 17-05-087	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

K Gibson

PLM ANALYST
K. Gibson

K Gibson

PLM-NOB ANALYST
K. Gibson

TEM-NOB ANALYST
E. Loukianova

LABORATORY DIRECTOR
E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, ELAP 10955

- Samples will be stored for sixty (60) days. LTS Inc. should be notified within this time frame for a true duplicate analysis.
- Above results relate only to samples submitted and analyzed. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of LTS Inc.
- The liability of LTS Inc., with respect to the services charged, shall in no event exceed the amount of the invoice.
- Analytical Methodologies: EPA 600/M4-82-020 (Point Count only) and ELAP Methods 198.1, 198.4,198.6.
- NAD: No Asbestos Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004

17-05-87

Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

1 of 3

Contact:

Name: Benjamin Sallemi / ~~Chris Pierce~~ A. Spalding

Company: GZA GeoEnvironmental, Inc.

Address: 55 Lane Road, Fairfield, NJ 07004 POSTED

Phone: Ext: Fax: 973-774-3350

Cell: ~~973-8~~ 201-396-3502 E-mail: benjamin.sallemi@gza.com / adam.spalding@gza.com

Project Name: Phillips Job No: 41.0162512.10

Sampling Date: 5/3/17 Location: 345 Scarborough Road, Briarcliff Manor, NY - Holbrook house

Special Instructions: **Stop at first positive for each homogeneous area**

Send initial results by: Fax ☐ Phone ☐ Cell ☐ e-mail ☒ choose one only

BULK:	X	Asbestos, PLM - Friable		X	Asbestos, PLM - NOB	X	Asbestos, TEM - NOB
AIR:		Asbestos, Air, PCM		Asbestos, TEM, Chatfield		Asbestos, TEM, Conventional		Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	NOB TEM
1	1-1	12x18" VFT 1st flr bir E	No Yes	PLM 100sf PLM (-) NAD	(-) NAD
	1-2	↓ ↓	No Yes	↓	↓
2	2-3	adhesive Assoc. w/ HA-1 VFT	No Yes	(-) NAD	(-) NAD
	2-4		No Yes	↓	↓
3	3-5	grey cove base 1st fl bir E	No Yes	(-) NAD	(-) NA
	3-6	↓ ↓	No Yes	↓	↓
4	4-7	adhesive assoc. w/ HA-3 cove	No Yes	(-) NAD	(-) NA
	4-8	↓ ↓	No Yes	↓	↓
5	5-9	gypsm wallboard bsmt W	No Yes	(-) NAD	
	5-10	↓ bsmt E	No Yes	↓	
6	6-11	joint compound "	No Yes	(-) NAD	
	6-12	"	No Yes	↓	
7	7-13	joint tape "	No Yes	(-) NAD	
	7-14	"	No Yes	↓	
8	8-15	pipe packing bst wall N	No Yes	10sf (+) 1.25% CH	

Relinquished By: [signature] Date: 5-8-17 1930

Received By: Oscar Reyes Date: 5-10-17 10:00

Received By: Date:

Analyzed by E. Loukianova EM 5.11.17

170587

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004

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Cell e-mail benjamin.sallemi@gza.com /

2 of 2

Project Name: Phillips Job No. 41.0162512.10
Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable		[X] Asbestos, PLM - NOB	[X] Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe	

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
8	8-16	Pipe pack - basin wall W	No Yes	PLM 10 sf PLM NOB TEM NA
8	8-17	↓ ↓	No Yes	↓ NA
9	9-18	CMU mortar ~~between~~ w wall	No Yes	(-) NAD
	9-19	↓ ↓	No Yes	↓
10	10-20	fire brick mortar @ fmplace bsmt s ram	No Yes	(-) NAD
	10-21	↓ ↓	No Yes	↓
	10-22	↓ ↓	No Yes	
11	11-23	roof shyles - top layer fmly of house w/	No Yes	(-) NAD (-) NA
	11-24	↓	No Yes	↓ ↓
12	12-25	roof shyles - 2nd layer	No Yes	(-) NAD (-) N
	12-26	↓	No Yes	↓ ↓
13	13-27	roofing bitumen paper	No Yes	(-) NAD (-) NA
	13-28	↓	No Yes	↓ ↓
14	14-29	roofing tar (on shyles)	No Yes	(-) NAD (-) NA
	14-30	↓	No Yes	↓ ↓

Relinquished By: [signature] Date: 5-17-17 19:30
Received By: Date:
Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by E. Loukianova Ehl 5.11.17

17-05-87

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004
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3 of 3

Contact:
Name **Benjamin Sallemi / Chris Pierce**
Company **GZA GeoEnvironmental, Inc.**
Address **55 Lane Road, Fairfield, NJ 07004**
Phone Ext. Fax **973-774-3350**
Cell e-mail benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB		[X] Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	
15	15-31	back ext. door caulk 2nd flr deck w	No Yes	PLM 201F	PLM (-) NAD (-) NOB TEM
	15-32	↓	No Yes	↓	↓
16	16-33	off white wallpaper 2nd flr stairwell	No Yes		(-) NAD (-)
	16-34	↓ ↓	No Yes	↓	↓
17	17-35	wallpaper gone	No Yes		(-) NAD (-)
	17 36	↓	No Yes	↓	↓
18	18 37	exterior tarpaper SW vapor barrier front of house	No Yes		(-) NAD (-)
	18 38	NW	No Yes	↓	↓
19	19 39	front porch mortar	No Yes	(-) NAD	
	19 40	↓	No Yes	↓	
20	20-41	garage - vapor barrier over doors N	No Yes		(-) NAD (-)
20	- 42	↓ ↓	No Yes	↓	↓
21	21-43	drywall - W wall	No Yes	(-) NAD	
	21-44	↓	No Yes	↓	
	45		No Yes	↓	

Relinquished By: [signature] Date: 5-8-17 1930
Received By: Oscar Peres Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Laukiavage EMP 5.11.17

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # / Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
1-1 17-05-085-01	A	BK	E			Black Cove Base Bldg D1 E Hall				56.58	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
1-2 17-05-085-02	A	BK	E			Black Cove Base Bldg C1120				27.21	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
2-3 17-05-085-03	A	BE	E			Adhesive assoc. w/ HA-1 Bldg C1120				13.21	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
2-4 17-05-085-04	A	BE	E			Adhesive assoc. w/ HA-1 Bldg C1120				6.79	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
3-5 17-05-085-05	A	GR	E			12" White w/ Grey Lined VFT D1280				39.35	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
3-6 17-05-085-06	A	GR	E			12" White w/ Grey Lincd VFT C1130				4.59	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
4-7	A	Y	E			Adhesive assoc. w/ HA-3 D1280				29.50	NAD		NAD		NAD
17-05-085-07	B	1	F												
	C	198.4/6	G												
	D		H												
4-8	A	Y	E			Adhesive assoc. w/ HA-3 C1130				5.30	NAD		NAD		NAD
17-05-085-08	B	1	F												
	C	198.4/6	G												
	D		H												
5-9	A	GR	E			12" Grey VFT C-1130				8.11	NAD		NAD		NAD
17-05-085-09	B	1	F												
	C	198.4/6	G												
	D		H												
5-10	A	GR	E			12" Grey VFT C-1120				8.17	NAD		NAD		NAD
17-05-085-10	B	1	F												
	C	198.4/6	G												
	D		H												
6-11	A	Y	E			Adhesive assoc. w/ HA-5 C1130				12.63	NAD		NAD		NAD
17-05-085-11	B	1	F												
	C	198.4/6	G												
	D		H												
6-12	A	Y	E			Adhesive assoc. w/ HA-5 C1120				8.79	NAD		NAD		NAD
17-05-085-12	B	1	F												
	C	198.4/6	G												
	D		H												

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
7-13 17-05-085-13	A	CR	E	15		Pipe Elbow Packing C1/D1 Hall by Areas B/R	51.70	13.30	CH						13.30
	B	1	F												
	C	198.1	G												
	D	20	H												
7-14 17-05-085-14	A		E			Pipe Elbow Packing C1130		NA							SAFP
	B		F												
	C		G												
	D		H												
7-15 17-05-085-15	A		E			Mech/Boiler Rm - C1050		NA							SAFP
	B		F												
	C		G												
	D		H												
8-16 17-05-085-16	A	GR	E			2 x 4 Fissured C/Tiles C1120				62.30	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
8-17 17-05-085-17	A	GR	E			2 x 4 Fissured C/Tiles D1210				63.45	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												
9-18 17-05-085-18	A	GR	E			Grey Cove Base D1210				42.00	NAD		NAD		NAD
	B	1	F												
	C	198.4/6	G												
	D		H												

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroseope Analysis				Sample Deseription	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
9-19 17-05-085-19	A	GR	E		Grey Cove Base D1220				43.28	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
10-20 17-05-085-20	A	BK	E		Mastic assoc. w/ HA-9 D1210				38.21	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
10-21 17-05-085-21	A	BK	E		Mastic assoc. w/ HA-9 D1220				40.89	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
11-22 17-05-085-22	A	GR	E		Remnant Carpet Glue D1230				66.16	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
11-23 17-05-085-23	A	GR	E		Remnant Carpet Glue D2234				29.83	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
12-24 17-05-085-24a	A	WH/SI	E	35	F/G Pipe Wrap C1/D1 by B/R C1/D1 Hall	15.00	NAD							NAD
	B	2	F											
	C	198.1	G											
	D	50	H											

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # / Lab ID #	Stereomicroscope Analysis								Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
12-24 / 17-05-085-24b	A	Y	E	100					F/G Pipe Wrap C1/D1 by B/R C1/D1 Hall	0.00	NAD							NAD
	B	1	F															
	C	198.1	G															
	D		H															
12-25 / 17-05-085-25	A	WH/S1	E	40					F/G Pipe Wrap C1050	15.00	NAD							NAD
	B	2	F															
	C	198.1	G															
	D	45	H															
12-26 / 17-05-085-26	A	WH/S1	E	15					F/G Pipe Wrap C1060	20.00	NAD							NAD
	B	2	F															
	C	198.1	G															
	D	65	H															
13-27 / 17-05-085-27	A	WH	E	80					Mum. Wrap C1050	20.00	NAD							NAD
	B	1	F															
	C	198.1	G															
	D		H															
13-28 / 17-05-085-28	A	WH	E	80					Mum. Wrap C1066	20.00	NAD							NAD
	B	1	F															
	C	198.1	G															
	D		H															
13-29 / 17-05-085-29	A	WH	E	80					Mum. Wrap C1066	20.00	NAD							NAD
	B	1	F															
	C	198.1	G															
	D		H															

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004										**Project:** 345 Scarsborough Road, Briarcliff Manor									
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17					**Date of Analysis:** 05/11/17									
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% AII**	**% PLM NOB Results**				**% TEM NOB Results**				**% TOTAL Asbestos**	
14-30 / 17-05-085-30	A	GR	E	15	Mag Block C1050	85.00	NAD											**NAD**	
	B	1	F																
	C	198.1	G																
	D		H																
14-31 / 17-05-085-31	A	GR	E	20	Mag Block C1050	80.00	NAD											**NAD**	
	B	1	F																
	C	198.1	G																
	D		H																
14-32 / 17-05-085-32	A	GR	E	20	Mag Block C1060	45.00	NAD											**NAD**	
	B	1	F																
	C	198.1	G																
	D	35	H																
15-33 / 17-05-085-33	A	GR	E	10	Boiler Packing C1050	59.20	30.80	CH										**30.80**	
	B	1	F				TRACE	AMO											
	C	198.1	G																
	D		H																
15-34 / 17-05-085-34	A		E		Boiler Packing C1050		NA											**SAFP**	
	B		F																
	C		G																
	D		H																
15-35 / 17-05-085-35	A		E		Boiler Packing C1060		NA											**SAFP**	
	B		F																
	C		G																
	D		H																

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
16-36	A	BR	E			12" Brown w/ Brown/Tan Specks VFT Stairwell 7				48.96	TRACE	CH	19.58	CH	**19.58**
	B	1	F												
17-05-085-36	C	198.4/6	G												
	D		H												
16-37	A	BR	E			12" Brown w/ Brown/Tan Specks VFT Stairwell 7				47.35	TRACE		NA		**SAFP**
	B	1	F												
17-05-085-37	C	198.6	G												
	D		H												
17-38	A	BR	E			Mastic assoc. w/ HA-16				42.86	TRACE	CH	15.00	CH	**15.00**
	B	1	F												
17-05-085-38	C	198.4/6	G												
	D		H												
17-39	A	BR	E			Mastic assoc. w/ HA-16				45.29	TRACE	CH	NA		**SAFP**
	B	1	F												
17-05-085-39	C	198.6	G												
	D		H												
18-40	A	GR	E			Tan Cove Base DD2218				4.89	NAD		NAD		**NAD**
	B	1	F												
17-05-085-40	C	198.4/6	G												
	D		H												
18-41	A	GR	E			Tan Cove Base DD2218				1.54	NAD		NAD		**NAD**
	B	1	F												
17-05-085-41	C	198.4/6	G												
	D		H												

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
19-42 17-05-085-42	A GR E B 1 F C 198.4/6 G D H	Associated Mastic w/HA-18			5.33	NAD	NAD	NAD
19-43 17-05-085-43	A GR E B 1 F C 198.4/6 G D H	Associated Mastic w/HA-18			24.19	NAD	NAD	NAD
20-44 17-05-085-44	A BR E B 1 F C 198.4/6 G D H	Brown Cove Base, DD2236			40.20	NAD	NAD	NAD
20-45 17-05-085-45	A BR E B 1 F C 198.4/6 G D H	Brown Cove Base, DD2236			41.73	NAD	NAD	NAD
21-46 17-05-085-46	A BK E B 1 F C 198.4/6 G D H	Adhesive assoc. w/ HA-20 D2236			40.00	NAD	NAD	NAD
21-47 17-05-085-47	A BK E B 1 F C 198.4/6 G D H	Adhesive assoc. w/ HA-20 D2236			40.31	NAD	NAD	NAD

BULK ASBESTOS TEST REPORT

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Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
22-48 17-05-085-48	A	WH	E		9" White VFT - C2014			59.53	TRACE	CH	23.81	CH	**23.81**
	B	1	F										
	C	198.4/6	G										
	D		H										
22-49 17-05-085-49	A	WH	E		9" White VFT - C2014			57.89	TRACE	CH	NA		**SAFP**
	B	1	F										
	C	198.6	G										
	D		H										
23-50 17-05-085-50	A	BK	E		Mastic assoc. w/ HA-22			56.13	TRACE	CH	19.65	CH	**19.65**
	B	1	F										
	C	198.4/6	G										
	D		H										
23-51 17-05-085-51	A	BK	E		Mastic assoc. w/ HA-22			60.00	TRACE	CH	NA		**SAFP**
	B	1	F										
	C	198.6	G										
	D		H										
24-52 17-05-085-52	A	BR	E		9" Tan VFT Hallway C Wing (up to 2014)			20.40	TRACE	CH	6.12	CH	**6.12**
	B	1	F										
	C	198.4/6	G										
	D		H										
24-53 17-05-085-53	A	BR	E		9" Tan VFT Hallway C Wing (up to 2014)			23.00	TRACE	CH	NA		**SAFP**
	B	1	F										
	C	198.6	G										
	D		H										

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # / Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbcstos
25-54 17-05-085-54	A BK E B 1 F C 198.4/6 G D H	Mastic assoc. w/ HA-24 C Wing Hallway up to 2014			35.47	TRACE CH 10.64 CH		10.64
25-55 17-05-085-55	A BK E B 1 F C 198.6 G D H	Mastic assoc. w/ HA-24 C Wing Hallway up to 2014			29.96	TRACE CH NA		SAFP
26-56 17-05-085-56	A BK E B 1 F C 198.4/6 G D H	Black 12" VFT Rm C2029			29.46	NAD NAD		NAD
26-57 17-05-085-57	A BK E B 1 F C 198.4/6 G D H	Black 12" VFT Rm C2086			26.30	NAD NAD		NAD
27-58 17-05-085-58	A BK E B 1 F C 198.4/6 G D H	Mastic assoc. w/ HA-26 Rm C2029			20.25	NAD TRACE CH		TRACE
27-59 17-05-085-59	A BK E B 1 F C 198.4/6 G D H	Mastic assoc. w/ HA-26 Rm C2086			18.94	NAD TRACE CH		TRACE

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
28-60 17-05-085-60	A T E B 1 F C 198.4/6 G D H	9" Tan/White VFT B200			23.52	NAD	7.06 CH	7.06
28-61 17-05-085-61	A T E B 1 F C 198.6 G D H	9" Tan/White VFT B2028			28.29	NAD	NA	SAFP
29-62 17-05-085-62	A BK E B 1 F C 198.4/6 G D H	Mastic assoc. w/ HA-28 B200			22.06	NAD	5.52 CH	5.52
29-63 17-05-085-63	A BK E B 1 F C 198.6 G D H	Mastic assoc. w/ HA-28 B2028			25.58	NAD	NA	SAFP
30-64 17-05-085-64	A GR E B 1 F C 198.4/6 G D H	2 x 2 Fissured C/Tiles C2126			67.76	NAD	NAD	NAD
30-65 17-05-085-65	A GR E B 1 F C 198.4/6 G D H	2 x 2 Fissured C/Tiles B200			67.64	NAD	NAD	NAD

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
31-66 17-05-085-66	A	GR	E			9" Off White w/ Black Spots VFT B2026				38.04	TRACE	CH	15.22	CH	**15.22**
	B	1	F												
	C	198.4/6	G												
	D		H												
31-67 17-05-085-67	A	GR	E			9" Off White w/ Black Spots VFT B2026				55.50	TRACE	CH	NA		**SAFP**
	B	1	F												
	C	198.6	G												
	D		H												
32-68 17-05-085-68	A	BK	E			Mastic assoc. w/ HA-31 B2026				56.06	TRACE	CH	22.42	CH	**22.42**
	B	1	F												
	C	198.4/6	G												
	D		H												
32-69 17-05-085-69	A	BK	E			Mastic assoc. w/ HA-31 B2026				55.78	TRACE	CH	NA		**SAFP**
	B	1	F												
	C	198.6	G												
	D		H												
33-70 17-05-085-70	A	BR/GR	E	3		Gypsum Wallboard B200	77.00	NAD							**NAD**
	B	2	F												
	C	198.1	G												
	D	20	H												
33-71 17-05-085-71	A	BR/GR	E	3		Gypsum Wallboard B3663	57.00	NAD							**NAD**
	B	2	F												
	C	198.1	G												
	D	40	H												

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarsborough Road, Briarcliff Manor
Laboratory ID: 17-05-085	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
34-72	A	WH	E		Joint Compound B200	100.00	NAD							NAD
	B	1	F											
17-05-085-72	C	198.1	G											
	D		H											
34-73	A	WH	E		Joint Compound B3663	100.00	NAD							NAD
	B	1	F											
17-05-085-73	C	198.1	G											
	D		H											
35-74	A	WH	E		Joint Tape B200	0.00	NAD							NAD
	B	1	F											
17-05-085-74	C	198.1	G											
	D	100	H											
35-75	A	WH	E		Joint Tape B3663	0.00	NAD							NAD
	B	1	F											
17-05-085-75	C	198.1	G											
	D	100	H											
36-76	A	BR	E		Newer Carpet Adhesive C3796				28.41	TRACE	CH	TRACE	CH	TRACE
	B	1	F											
17-05-085-76	C	198.4/6	G											
	D		H											
36-77	A	GR	E		Newer Carpet Adhesive C3790				38.61	TRACE	CH	TRACE	CH	TRACE
	B	1	F											
17-05-085-77	C	198.4/6	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004						**Project:** 345 Scarsborough Road, Briarcliff Manor
Laboratory ID: 17-05-085				**Date of Report:** 05/11/17		**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
37-78	A	GR	E		2 x 2 Small Clng Tiles C3796			76.50	NAD		NAD		NAD
	B	1	F										
17-05-085-78	C	198.4/6	G										
	D		H										
37-79	A	GR	E		2 x 2 Small Clng Tiles C3790			81.47	NAD		NAD		NAD
	B	1	F										
17-05-085-79	C	198.4/6	G										
	D		H										
38-80	A	WH	E		9" White/Tan Lined VFT B3330			19.92	TRACE	CH	5.98	CH	5.98
	B	1	F										
17-05-085-80	C	198.4/6	G										
	D		H										
38-81	A	WH	E		9" White/Tan Lined VFT B3290			37.52	TRACE	CH	NA		SAFP
	B	1	F										
17-05-085-81	C	198.6	G										
	D		H										
39-82	A	BK	E		Mastic assoc. w/ HA-39 B3330			16.81	TRACE	CH	4.20	CH	4.20
	B	1	F										
17-05-085-82	C	198.4/6	G										
	D		H										
39-83	A	BK	E		Mastic assoc. w/ HA-39 B3290			6.34	TRACE	CH	NA		SAFP
	B	1	F										
17-05-085-83	C	198.6	G										
	D		H										

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
40-84	A	BR	E			CMU Mortar B3455	100.00	NAD							NAD
	B	1	F												
17-05-085-84a	C	198.1	G												
	D		H												
40-84	A	GR	E			CMU Mortar B3455	100.00	NAD							NAD
	B	1	F												
17-05-085-84b	C	198.1	G												
	D		H												
40-85	A	BR	E			CMU Mortar Penthouse A	100.00	NAD							NAD
	B	1	F												
17-05-085-85a	C	198.1	G												
	D		H												
40-85	A	GR	E			CMU Mortar Penthouse A	100.00	NAD							NAD
	B	1	F												
17-05-085-85b	C	198.1	G												
	D		H												
41-86	A	BE	E			Lt. Tan Cove Base A3090				0.89	NAD		NAD		NAD
	B	1	F												
17-05-085-86	C	198.4/6	G												
	D		H												
41-87	A	BE	E			Lt. Tan Cove Base A3090				0.93	NAD		NAD		NAD
	B	1	F												
17-05-085-87	C	198.4/6	G												
	D		H												

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
42-88 17-05-085-88	A WH/Y E 95 B I F C 198.1 G D H	12" White CT w/ Insulation A3180	5.00	NAD				NAD
42-89 17-05-085-89	A WH/Y E 95 B I F C 198.1 G D H	12" White CT w/ Insulation A3180	5.00	NAD				NAD
43-90 17-05-085-90	A WH E B I F C 198.4/6 G D H	12" White/Blue Streak VFT C4920			32.86	NAD	NAD	NAD
43-91 17-05-085-91	A WH E B I F C 198.4/6 G D H	12" White/Blue Streak VFT C4920			38.93	NAD	NAD	NAD
44-92 17-05-085-92	A GR E B I F C 198.4/6 G D H	Grey Wallpaper C4930			6.01	NAD	NAD	NAD
44-93 17-05-085-93	A GR E B I F C 198.4/6 G D H	Grey Wallpaper C4930			6.62	NAD	NAD	NAD

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
45-94 17-05-085-94	A GR E B 1 F C 198.4/6 G D H	Lined 2 x 3 C/Tiles Fissured 4th Flr Cafeteria			57.24	NAD	NAD	NAD
45-95 17-05-085-95	A GR E B 1 F C 198.4/6 G D H	Lined 2 x 3 C/Tiles Fissured 4th Flr Cafeteria			63.07	NAD	NAD	NAD
46-96 17-05-085-96	A GN E B 1 F C 198.4/6 G D H	Aqua/Grey Cove Base B4660			5.86	NAD	NAD	NAD
46-97 17-05-085-97	A GN E B 1 F C 198.4/6 G D H	Aqua/Grey Cove Base B4660			2.40	NAD	NAD	NAD
47-98 17-05-085-98	A BR E B 1 F C 198.4/6 G D H	Adhesive assoc. w/ HA-46 B4600			28.09	NAD	NAD	NAD
47-99 17-05-085-99	A BR E B 1 F C 198.4/6 G D H	Adhesive assoc. w/ HA-46 B4600			31.67	NAD	NAD	NAD

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004							**Project:** 345 Scarsborough Road, Briarcliff Manor										
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17		**Date of Analysis:** 05/11/17										
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**			
48-100	A	WH	E		Trowled on J/Compound B4640	100.00	NAD							**NAD**			
	B	1	F														
17-05-085-100	C	198.1	G														
	D		H														
48-101	A	WH	E		Trowled on J/Compound B4640	100.00	NAD							**NAD**			
	B	1	F														
17-05-085-101	C	198.1	G														
	D		H														
48-102	A	WH	E		Trowled on J/Compound B4640	100.00	NAD							**NAD**			
	B	1	F														
17-05-085-102	C	198.1	G														
	D		H														
49-103	A	BK	E		Roof Shingle B4640				66.44	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-103	C	198.4/6	G														
	D		H														
49-104	A	BK	E		Roof Shingle B4640				72.40	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-104	C	198.4/6	G														
	D		H														
50-105	A	WH	E		12" Fissured Wall Tile B4590				77.72	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-105	C	198.4/6	G														
	D		H														

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
50-106 / 17-05-085-106	A	WH	E			12" Fissured Wall Tile Hall B4590			68.77	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
51-107 / 17-05-085-107	A	BR	E			Adhesive assoc. w/ HA-50 Hall B4590			47.42	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
51-108 / 17-05-085-108	A	BR	E			Adhesive assoc. w/ HA-50 Hall B4590			47.84	TRACE	CH	NAD		TRACE
	B	1	F											
	C	198.4/6	G											
	D		H											
52-109 / 17-05-085-109	A	GR	E			12" Grey/White w/ Black Spots B4440			57.14	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
52-110 / 17-05-085-110	A	GR	E			12" Grey/White w/ Black Spots B4440			59.76	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
53-111 / 17-05-085-111	A	BK	E			Adhesive assoc. w/ HA-53 B4440			21.30	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004						**Project:** 345 Scarsborough Road, Briarcliff Manor											
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17						**Date of Analysis:** 05/11/17						
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**			
53-112	A	BK	E		Adhesive assoc. w/ HA-53 B4440				23.22	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-112	C	198.4/6	G														
	D		H														
54-113	A	BK	E		Black Cove Base B4440				3.31	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-113	C	198.4/6	G														
	D		H														
54-114	A	BK	E		Black Cove Base B4440				2.88	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-114	C	198.4/6	G														
	D		H														
55-115	A	BR	E		Adhesive assoc. w/ HA-54 B4440				46.18	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-115	C	198.4/6	G														
	D		H														
55-116	A	BR	E		Adhesive assoc. w/ HA-54 B4440				29.68	NAD		NAD		**NAD**			
	B	1	F														
17-05-085-116	C	198.4/6	G														
	D		H														
56-117	A	WH	E		White w/ Brown Lines VFT 12" B4576				25.66	TRACE	CH	8.98	CH	**8.98**			
	B	1	F														
17-05-085-117	C	198.4/6	G														
	D		H														

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # / Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% All	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
56-118 17-05-085-118	A WH E B 1 F C 198.6 G D H	White w/ Brown Lines VFT 12" B4576			34.23	TRACE CH NA		SAFP
57-119 17-05-085-119	A BK E B 1 F C 198.6 G D H	Adhesive assoc. w/ HA-56			12.94	1.44 CH NA		1.44
57-120 17-05-085-120	A BK E B 1 F C G D H	Adhesive assoc. w/ HA-56			19.19	NA NA		SAFP
58-121 17-05-085-121	A GR E B 1 F C 198.4/6 G D H	Grey w/ White/Black Vinyl Stair Tread Vine Stairwell 4			53.89	NAD NAD		NAD
58-122 17-05-085-122	A GR E B 1 F C 198.4/6 G D H	Grey w/ White/Black Vinyl Stair Tread Vine Stairwell 4			53.66	NAD NAD		NAD
59-123 17-05-085-123	A BR E B 1 F C 198.4/6 G D H	Adhesive assoc. w/ HA58 Stairwell 4			65.74	NAD NAD		NAD

Laboratory Testing Service

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004						**Project:** 345 Scarsborough Road, Briarcliff Manor													
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17						**Date of Analysis:** 05/11/17								
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**					
59-124	A	BR	E		Adhesive assoc. w/ HA58 Stairwell 4				57.01	NAD		NAD		**NAD**					
	B	1	F																
17-05-085-124	C	198.4/6	G																
	D		H																
60-125	A	BR	E		Cloth Wrap on F/G Piping Penthouse B	0.00	NAD							**NAD**					
	B	1	F																
17-05-085-125	C	198.1	G																
	D	100	H																
60-126	A	BR	E		Cloth Wrap on F/G Piping Penthouse B	20.00	NAD							**NAD**					
	B	1	F																
17-05-085-126a	C	198.1	G																
	D	80	H																
60-126	A	Y	E	100	Cloth Wrap on F/G Piping Penthouse B	0.00	NAD							**NAD**					
	B	1	F																
17-05-085-126b	C	198.1	G																
	D		H																
60-127	A	BR	E		Cloth Wrap on F/G Piping Penthouse B	20.00	NAD							**NAD**					
	B	1	F																
17-05-085-127a	C	198.1	G																
	D	80	H																
60-127	A	Y	E	100	Cloth Wrap on F/G Piping Penthouse B	0.00	NAD							**NAD**					
	B	1	F																
17-05-085-127b	C	198.1	G																
	D		H																

Laboratory Testing Services

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results	% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
61-128	A	BK	E		HVAC Vib Joint Penthouse C			37.40	NAD		NAD		NAD
	B	1	F										
17-05-085-128	C	198.4/6	G										
	D		H										
61-129	A	BK	E		HVAC Vib Joint Penthouse C			41.02	NAD		NAD		NAD
	B	1	F										
17-05-085-129	C	198.4/6	G										
	D		H										
61-130	A	BK	E		HVAC Vib Joint Penthouse C			42.04	NAD		NAD		NAD
	B	1	F										
17-05-085-130	C	198.4/6	G										
	D		H										
62-131	A	BR	E		Brick Mortar - Roof Area Penthouse A Wing	100.00	NAD						NAD
	B	1	F										
17-05-085-131	C	198.1	G										
	D		H										
62-132	A	BR	E		Brick Mortar - Roof Area Penthouse A Wing	100.00	NAD						NAD
	B	1	F										
17-05-085-132	C	198.1	G										
	D		H										
63-133	A	WH	E		Exterior Seam Caulk Bldg A Penthouse			19.71	NAD		NAD		NAD
	B	1	F										
17-05-085-133	C	198.4/6	G										
	D		H										

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # / Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
63-134	A	WH	E		Exterior Seam Caulk Bldg A Penthouse				18.73	NAD		NAD		NAD
	B	1	F											
17-05-085-134	C	198.4/6	G											
	D		H											
64-135	A	BR	E		Window Panel Caulk Bldg A Penthouse				42.01	2.18	ANTH	NA		2.18
	B	1	F							TRACE	CH			
17-05-085-135	C	198.6	G											
	D		H											
64-136	A	BR	E		Window Panel Caulk Bldg A Penthouse				7.49	NA		NA		SAFP
	B	1	F											
17-05-085-136	C		G											
	D		H											
65-137	A	BK	E		Flash Tar Bldg A Roof				19.62	NAD		NAD		NAD
	B	1	F											
17-05-085-137	C	198.4/6	G											
	D		H											
65-138	A	BK	E		Flash Tar Bldg A Roof				20.95	NAD		NAD		NAD
	B	1	F											
17-05-085-138	C	198.4/6	G											
	D		H											
66-139	A	GR	E		Chimney Mortar Bldg Roof	100.00	NAD							NAD
	B	1	F											
17-05-085-139	C	198.1	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarsborough Road, Briarcliff Manor
Laboratory ID: 17-05-085	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
66-140	A	GR	E		Chimney Mortar Bldg Roof	100.00	NAD							NAD
	B	1	F											
17-05-085-140	C	198.1	G											
	D		H											
67-141	A	BL	E		Dk Blue Cove Base A4010				3.13	NAD		NAD		NAD
	B	1	F											
17-05-085-141	C	198.4/6	G											
	D		H											
67-142	A	BL	E		Dk Blue Cove Base A4010				0.94	NAD		NAD		NAD
	B	1	F											
17-05-085-142	C	198.4/6	G											
	D		H											
68-143	A	BE	E		Adhesive assoc. w/ HA-67				43.53	NAD		NAD		NAD
	B	1	F											
17-05-085-143	C	198.4/6	G											
	D		H											
68-144	A	BE	E		Adhesive assoc. w/ HA-67				40.00	NAD		NAD		NAD
	B	1	F											
17-05-085-144	C	198.4/6	G											
	D		H											
69-145	A	WH	E		Top Coat Joint Compound Cover CMU A4010	100.00	NAD							NAD
	B	1	F											
17-05-085-145	C	198.1	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
69-146	A	WH	E		Top Coat Joint Compound Cover CMU A4010	100.00	NAD							NAD
	B	1	F											
17-05-085-146	C	198.1	G											
	D		H											
69-147	A	WH	E		Top Coat Joint Compound Cover CMU A4010	100.00	NAD							NAD
	B	1	F											
17-05-085-147	C	198.1	G											
	D		H											
70-148	A	WH	E		White/Tan Wallpaper A4010				8.49	NAD		NAD		NAD
	B	1	F											
17-05-085-148	C	198.4/6	G											
	D		H											
70-149	A	WH	E		White/Tan Wallpaper A4010				8.33	NAD		NAD		NAD
	B	1	F											
17-05-085-149	C	198.4/6	G											
	D		H											
71-150	A	WH	E		White Cove Base A4095				1.18	NAD		NAD		NAD
	B	1	F											
17-05-085-150	C	198.4/6	G											
	D		H											
71-151	A	WH	E		White Cove Base A4095				1.34	NAD		NAD		NAD
	B	1	F											
17-05-085-151	C	198.4/6	G											
	D		H											

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BULK ASBESTOS TEST REPORT

| | | |

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004								**Project:** 345 Scarsborough Road, Briarcliff Manor											
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17			**Date of Analysis:** 05/11/17											
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% AII**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**					
75-158 17-05-085-158	A	PL	E		Purple Cove Base A4140				1.57	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																
75-159 17-05-085-159	A	PL	E		Purple Cove Base A4140				2.28	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																
76-160 17-05-085-160	A	BE	E		Adhesive assoc. w/ A4140				0.27	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																
76-161 17-05-085-161	A	BE	E		Adhesive assoc. w/ A4140				6.13	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																
77-162 17-05-085-162	A	BR	E		2 x 4 Smooth Ceiling Tiles C4680 Kitchen Area				55.06	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																
77-163 17-05-085-163	A	BR	E		2 x 4 Smooth Ceiling Tiles C4680 Kitchen Area				74.77	NAD		NAD		**NAD**					
	B	1	F																
	C	198.4/6	G																
	D		H																

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
78-164	A	GR	E		Fibrous Spray on Fireproofing B3663	55.60	44.40	AMO						44.40
	B	1	F											
17-05-085-164	C	198.1	G											
	D		H											
78-165	A		E		Fibrous Spray on Fireproofing B3663		NA							SAFP
	B		F											
17-05-085-165	C		G											
	D		H											
78-166	A		E		Fibrous Spray on Fireproofing B3663		NA							SAFP
	B		F											
17-05-085-166	C		G											
	D		H											
78-167	A		E		Fibrous Spray on Fireproofing B3300		NA							SAFP
	B		F											
17-05-085-167	C		G											
	D		H											
78-168	A		E		Fibrous Spray on Fireproofing B3300		NA							SAFP
	B		F											
17-05-085-168	C		G											
	D		H											
79-169	A	BR	E		Trowled On - I Beam Mortar B3663	100.00	NAD							NAD
	B	1	F											
17-05-085-169	C	198.1	G											
	D		H											

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004 | **Project:** 345 Scarsborough Road, Briarcliff Manor

Laboratory ID: 17-05-085 | **Date of Report:** 05/11/17 | **Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis	Sample Description	% Non-Fibrous Material	% Friable Results	% AII	% PLM NOB Results	% TEM NOB Results	% TOTAL Asbestos
79-170 17-05-085-170	A BR E B 1 F C 198.1 G D H	Trowled On - 1 Beam Mortar B3663	100.00	NAD				NAD
79-171 17-05-085-171	A BR E B 1 F C 198.1 G D H	Trowled On - I Beam Mortar B3663	100.00	NAD				NAD
79-172 17-05-085-172	A GR E B 1 F C 198.1 G D H	Trowled On - 1 Beam Mortar B2006	54.20	33.30 CH 12.50 AMO				45.80
79-173 17-05-085-173	A E B F C G D H	Trowled On - 1 Beam Mortar B2006		NA				SAFP
80-174 17-05-085-174	A BK E B 1 F C 198.6 G D H	Adhesive under Wood Floor C2112			44.81	5.96 CH	NA	5.96
80-175 17-05-085-175	A BK E B 1 F C G D H	Adhesive under Wood Floor C2112			52.75	NA	NA	SAFP

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004							**Project:** 345 Scarsborough Road, Briarcliff Manor										
Laboratory ID: 17-05-085					**Date of Report:** 05/11/17		**Date of Analysis:** 05/11/17										
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**				**% TEM NOB Results**			**% TOTAL Asbestos**
81-176	A	BR	E	5	Tan Spray on Fireproofing C1050	69.60	15.40	VERM									198.8
	B	1	F														
17-05-085-176	C	198.1	G	15.4													
	D	10	H														
81-177	A	BR	E	5	Tan Spray on Fireproofing C1050	72.90	12.10	VERM									198.8
	B	1	F														
17-05-085-177	C	198.1	G	12.1													
	D	10	H														
81-178	A	BR	E	10	Tan Spray on Fireproofing C1050	65.70	14.30	VERM									198.8
	B	1	F														
17-05-085-178	C	198.1	G	14.3													
	D	10	H														
81-179	A	BR	E	5	Tan Spray on Fireproofing D2234 Main	69.00	16.00	VERM									198.8
	B	1	F														
17-05-085-179	C	198.1	G	16													
	D	10	H														
81-180	A	BR	E	5	Tan Spray on Fireproofing D2234 Main	72.60	17.40	VERM									198.8
	B	1	F														
17-05-085-180	C	198.1	G	17.4													
	D	5	H														
81-181	A	BR	E	10	Tan Spray on Fireproofing D2234 Main	68.20	11.80	VERM									198.8
	B	1	F														
17-05-085-181	C	198.1	G	11.8													
	D	10	H														

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004			**Project:** 345 Scarsborough Road, Briarcliff Manor
Laboratory ID: 17-05-085	**Date of Report:** 05/11/17		**Date of Analysis:** 05/11/17

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
81-182 17-05-085-182	A	BR	E	5	Tan Spray on Fireproofing D2234 Main	70.20	14.80	VERM						198.8
	B	1	F											
	C	198.1	G	14.8										
	D	10	H											

Laboratory Testing Services

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BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarsborough Road, Briarcliff Manor
Laboratory ID: 17-05-085	**Date of Report:** 05/11/17	**Date of Analysis:** 05/11/17

PLM ANALYST	PLM-NOB ANALYST	TEM-NOB ANALYST	LABORATORY DIRECTOR
K. Esnard	K. Gibson K. Esnard M. Young	A. Korionova E. Loukianova	E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, ELAP 10955

- Samples will be stored for sixty (60) days. LTS Inc. should be notified within this time frame for a true duplicate analysis.
- Above results relate only to samples submitted and analyzed. This report must not he used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of LTS Inc.
- The liability of LTS Inc., with respect to the services charged, shall in no event exceed the amount of the invoice.
- Analytical Methodologies: EPA 600/M4-82-020 (Point Count only) and ELAP Methods 198.1, 198.4,198.6.
- NAD: No Asbestos Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

17-05-85

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004
Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

1 of 13

Contact:

Name: Benjamin Sallemi / ~~Chris Pierce~~ A. Spaulding

Company: GZA GeoEnvironmental, Inc.

Address: 55 Lane Road, Fairfield, NJ 07004

Phone: Ext. Fax: 973-774-3350

Cell: e-mail: benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions: **Stop at first positive for each homogeneous area** Bldg D/C - 1st flr

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X]	Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering, Describe each layer to be analyzed	
1	1-1	black cove base bldg D1 E flr	No Yes	~~PLM~~ ~~3250~~ 1st flr DI/M	(-) NAD
	1-2	bldg C1120	No Yes		
2	2-3	adhesive assoc. w/HA-1	No Yes		(-) NAD
	2-4	bldg C1120	No Yes		
3	3-5	12" white w/ gry lined VFT D1280	No Yes	3250 1st flr	(-) NAD
	3-6	C1130	No Yes		
4	4-7	adhesive assoc w/HA-3 D1280	No Yes		(-)
	4-8	C1130	No Yes		NAD
5	5-9	12" gray VFT C-1130	No Yes	900sf (1st flr)	NAD (-)
	5-10	C-1120	No Yes		
6	6-11	adhesive assoc. w/HA-5 C1130	No Yes		(-) NAD (-)
	6-12	C-1120	No Yes		
7	7-13	Pipe elbow pack C1D1 wall by mens blr	No Yes	(+) 75 133 lf CA	
	7-14	C1130	No Yes	NA	
	7-15	mech/boiler rm - closo	No Yes	NA	

NOB TEM

Relinquished By: Date: 5-8-17 19:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed by E. Loukianova EMP 5.11.17

Chain of Custody

11-05-085

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2 of 1

Contact:
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Company **GZA GeoEnvironmental, Inc.**
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Phone Ext. Fax **973-774-3350**
Cell e-mail benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X] Asbestos, TEM - NOB			
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe			

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered? Layering: Describe each layer to be analyzed	
8	8-16	2x4 fissured ceiling tiles C1130 C1210	No Yes	PLM (-)NAD → NOB TEM (-)NAD (-)NAD
	8-17	↓ D1210	No Yes	↓ ↓
9	9-18	gray cove base D1210	No Yes	500 lf (-)NAD (-)NAD (-)NAD
	9-19	↓ D1220	No Yes	↓ ↓
10	10-20	mastic assoc. w/ HA-9 D1210	No Yes	(-)NAD (-)NAD (-)NAD
	10-21	↓ D1220	No Yes	↓ ↓ ↓
11	11-22	remnant carpet glue D1230	No Yes	(-)NAD (-)NAD (-)NAD
	11-23	D2234	No Yes	↓ ↓ ↓
12	12-24	f/g pipe wrap by this bldg C1/D1 new	No Yes	(-)(-)NAD ↓ NAD 75 elbows NAD
	12-25	C1030	No Yes	(-)NAD
	12-26	C1060	No Yes	(-)NAD
13	13-27	mummy wrap C1050	No Yes	400 lf (-)NAD
	13-28	↓ C1060	No Yes	↓ ↓
	13-29	↓ C ↓	No Yes	↓ NAD
14	14-30	mag block C1050	No Yes	50 lf

Relinquished By: Date: 5-8-17 19:30
Received By: Date:
Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed By E. Loukianova Ehp 5.11.17

Chain of Custody

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17-05-086

3 of 12

Contact:
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Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No: 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
14	14-31	mag block C1050	No Yes	PLM (-) 7 S If NAD ↓ PLM NOB TEM
	1432	C1060	No Yes	↓
15	15-33	boiler packing C1060	No Yes	150 If (+) 30.8% Chr TR Amo C2FA drawn
	15-34	↓	No Yes	NA
	15-35	C1060	No Yes	NA
16	16-36	12" brown w/ brown/tan specs VFT stone 17	No Yes	2505 f (-) TR CH (+) 19.5%
	1637		No Yes	↓ ↓ NA
17	17-38	MASTIC ASSOC. w/ HA-16	No Yes	(-) TR CH (+) 15.0%
17	1739	↓	No Yes	↓ NA
18	18-40	tan cove base DD2218	No Yes	250 If (-) NAD (-) NAI
	41	↓	No Yes	↓ ↓
19	19-42	Associated mastic w/ HA-18	No Yes	(-) NAD (-) NA
	19-43	↓	No Yes	↓ ↓
20	20-44	brown cove base DD2236	No Yes	100 If (-) NAD (-) NAD
	2045	↓ ↓	No Yes	↓ ↓

Relinquished By: [signature]
Date: 5-9-17 - 19:30

Received By: Oscar Reyes
Date: 5-10-17 10:40

Received By:
Date:

Analyzed by E. Loukianova Ehf 5.11.17

Chain of Custody

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17-05-085

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Contact
Name **Benjamin Sallemi / Chris Pierce**
Company **GZA GeoEnvironmental, Inc.**
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Phone Ext. Fax **973-774-3350**
Cell e-mail benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X]	Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered? Layering: Describe each layer to be analyzed		
21	21-46	Adhesive assoc w/ HA-20	No Yes	PLM (-)NAD	PLM (-)NAD
	21-47	↓ DD2236	No Yes	↓	↓
22	22-48	~~2x2 fissured CHTILES~~	No Yes		(-)TR. CH(+)23.8%
	22-49	9" white VFT - C2014	No Yes	250sf ↓	NA
23	23-50	↓ ↓	No Yes	↓	(-)TR CH(+)19.65%
	23-51	mastic assoc w/ HA-22	No Yes	↓	NA
24	24-52	9" tan VFT hallway	No Yes	400sf	(-)TR. CH(+)6.12%
	24-53	C wing (up to 2014) ↓	No Yes	↓	NA
25	25-54	mastic assoc. w/ HA-24	No Yes	↓	(-)TR. CH(+)10.69%
	25-55	↓ C wing hallway ↓ VFT to 2014	No Yes	↓	NA
26	26-56	black 12" VFT rm. C2029	No Yes	750sf	(-)NAD (-)NAD
	26-57	rm. C2056	No Yes	↓	↓
27	27-58	mastic assoc w/ HA-26 rm C2029	No Yes		(-)NAD (-)TR.C
	27-59	↓ rm C2056	No Yes	↓	↓
28	28-60	9" tan/white VFT B200	No Yes	↓	(-)NAD (+)17.06%

Relinquished By: Date: 5-8-17 ~1430
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Loukianova Ehp 5.11.17

Chain of Custody

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Fax: 973-774-3350
benjamin.sallemi@gza.com

17.05-085

SOR

Contact:

Name **Benjamin Sallemi / Chris Pierce**

Company **GZA GeoEnvironmental, Inc.**

Address **55 Lane Road, Fairfield, NJ 07004**

Phone Ext. Fax **973-774-3350**

Cell e-mail benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [ ] [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	
28	28-61	9" tan/wht VFT B2028	No Yes	PLM 1 Lof (Brwn)	PLM NOB TEM (-) NAD NA
29	29-62	Mastic Assoc w/ HA-28 B2028	No Yes	↓	(-) NAD (+) 5.52%
	29-63	~ ~ B2028	No Yes	↓	NA
30	30-64	2×2 fissured c/ tile & mastic B2028	No Yes	↓	(-) NAD (-) NA
	30-65	↓ B2028	No Yes	↓	↓
31	31-66	9" off wht w/ black specks VFT B2028	No Yes	6 Lof	(-) TR. CH (+) 15.2
	31-67	~ ~	No Yes	↓	NA
32	32-68	Mastic Assoc. w/ HA-31 B2028	No Yes	↓	(-) TR. CH (+) 22.4
	32-69	~ ~	No Yes	↓	NA
33	33-70	Gypsum wallboard B2028	No Yes	(-) NAD	
	33-71	B3663	No Yes	↓	
34	34-72	JOINT COMPOUND B2028	No Yes	(-) NAD	
	34-73	B3663	No Yes	↓	
35	35-74	JOINT TAPE B2028	No Yes	(-) NAD	
	35-75	B3663	No Yes	↓	

Relinquished By: Date: 5-9-17 19:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed By E. Loukianova EL 5.11.17

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Cell e-mail benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X]	Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location		Layered?	Layering: Describe each layer to be analyzed	
36	36-76	Newer Gray Caulk Adhesive	C3796	No Yes	PLM	NOB PLM TEM (-)TR CH (-)TR.C
	36-77	↓	C3796	No Yes	↓	↓
37	37-78	2x2 small ceiling tile	C3796	No Yes	(-)NAD	(-)NAD
	37-79	↓	C3790	No Yes	↓	↓
38	38-80	gr wht / tan lined VFT	B3330	No Yes	(-)TR	CH (+)5.9% LA
	38-81	↓	B3290	No Yes	↓	
39	39-82	MASTIC Assoc. w/ HA 39	B3330	No Yes	(-)TR	CH (+)4.2% LA
	39-83	↓	B3290	No Yes	↓	
40	40-84	CMU Mortar	B3455	No Yes	BR (-) NAD GR (-) NAD	
	40-85	↓ Perlite A		No Yes	↓ ↓	
41	41-86	1 tan cove base	A3090	No Yes	SOLF (-)	NAD (-) NA
	41-87	↓		No Yes	↓ ↓	↓
42	42-88	12" wht ceiling tiles w/ Design	A3580	No Yes	(-)NAD TSOLF	
	42-89	↓	↓	No Yes	(-)NAD	
43	43-90	12" wht/blue stripe VFT	C4920	No Yes	2SOLF	(-)NAD (-)NA

Relinquished By: Date: 5-8-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Loukianova Ehf 5.11.17

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Project Name: Phillips Job No. 41.0162512.10

Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

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AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: **Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days**

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	PLM NOB	TEM
43	43-91	12" white/blue sheet VFT C4920	No Yes	250sf	(-) NAD	(-) NA
44	44 92	gray wallpaper C4930	No Yes	20USf	(-)	NAD (-) NA
	44 93	↓ ↓	No Yes	↓	↓	↓
45	45 94	lined 2x3 ceilings fissured 4th flr corridor	No Yes	120USF	(-)	NAD (-) NA
	45 95	↓	No Yes	↓	↓	↓
46	46 96	equal gray cove base B4060	No Yes	10USf	(-)	NAD (-) NA
	46 97	↓ ↓	No Yes		↓	↓
47	47 98	adhesive assoc. w/HA-46	No Yes		(-) NAD	(-) NA
	47 99	↓ B4600	No Yes	↓	↓	↓
48	48 100	trowel on ↓ compound B4610	No Yes	(-) NAD 75sf		
	48 101	↓	No Yes	(-) NAD		
	48 102	↓	No Yes	(-) NAD		
49	49 103	roofstyle B4640	No Yes	75sf	(-) NAD	(-) NA
	49 104	↓ ↓	No Yes	↓		↓
50	50 105	12" fissured wall + ↓ B4590	No Yes	250sf	(-) NAD	(-) NA

Relinquished By: [signature] Date: 5-8-17 15:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed by E. Loukianova Ehf 5.11.17

Chain of Custody

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17-05-085

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Company **GZA GeoEnvironmental, Inc.**

Address **55 Lane Road, Fairfield, NJ 07004**

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Project Name: Phillips Job No. 41.0162512.10

Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB		[X] Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	
S0	S0-106	12" fssue wall blue nail B4590	No Yes	250sf PLM	PLM NOB TEM (-) NAD (-) NA
S1	S1-107	Adhesive assoc. w/HA-S0	No Yes	↓	(-) NAD (-) NA
	S1-108	nail B4590	No Yes	↓	↓TR CH ↓
S2	S2-109	12" gry/white w/black spots B4440	No Yes	450sf	(-) NAD (-) NA
	S2-116	↓	No Yes	↓	↓ ↓
S3	S3-111	Adhesive assoc. w/HA-S3	No Yes	↓	(-) NAD (-) NA
	S3-112	↓ B4440 ↓	No Yes	↓	↓ ↓
S4	S4-113	lg black core box B4440	No Yes	500sf	(-) NAD (-) NA
	S4-114	↓	No Yes	↓	↓ ↓
S5	S5-115	Adhesive assoc. w/HA-S4	No Yes	↓	(-) NAD (-) NA
	S5-116	B4440	No Yes	↓	↓ ↓
S6	S6-117	white w/ brown lines VFT 12" B4576	No Yes	550sf	(-) TR CH (+) 8.5%
	S6-118	↓ ↓	No Yes	↓	(-) TR CH NA
S7	S7-119	Adhesive assoc. w/HA-S6	No Yes	↓	(+) 1.5% CH N
	S7-120	↓	No Yes	↓	NA N

Relinquished By: Date: 8-8-17 19:30

Received By: Date:

Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by E. Loukianova Ehp 5.11.17

Chain of Custody

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17-05-085

9 of 13

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Project Name: Phillips Job No. 41.0162512.10

Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [ ] [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: **Immediate** **6-Hours** **1-Day** **(2-Days)** **3 - 5 Days**

HA	Sample ID	Sample Description / Location	Layered? Describe each layer to be analyzed		
58	58-121	gray w/ wht/ black vinyl stair treads/ tile	No Yes	All Stairds but A WNG	(-) NAD (-) NAD
	58-122	Stairwell	No Yes		
59	59-123	Adhesive assoc. w/ HA 58	No Yes		(-) NAD (-) NAD
	59-124	Stairwell	No Yes		
60	60-125	cloth wrap on frig pipe. Penthouse B	No Yes	BR (-) NAD 300 lf	
	60-126		No Yes	BR (-) NAD Y (-) NAD	
	60-127		No Yes		
61	61-128	HVAC vib joint Penthouse C	No Yes	150 lf	(-) NAD (-) NAD
	61-129		No Yes		
	61-130		No Yes		
62	62-131	brick mortar - roofing	No Yes	(-) NAD Assumed	
	62-132	Penthouse A bldg	No Yes		
63	63-133	exterior seam caulk bldg A Penthouse	No Yes		(-) NAD (-) NAD
	63-134		No Yes		
64	64-135	window pour caulk bldg A Penthouse	No Yes	Assumed	(+) 2.18% Chrysotile TR CH

NOB

PLM TEM

Relinquished By: Date: 5-8-17 19:30

Received By: Date:

Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by A. KORIONOVA 5-11-17

17-05-086

Chain of Custody

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Phone Ext. Fax **973-774-3350**

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10 of 12

Project Name: Phillips Job No. 41.0162512.10

Sampling Date Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X]	Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location		Layered?	Layering: Describe each layer to be analyzed	NOB PLM	NOB TEM
64	64 -136	window pane cem	blk A putty	No Yes	PLM NAD	NA	NA
65	65 -137	flash+	blk A roof	No Yes	TEM NAD	(-) NAD	(-) NAD
	65 -138	↓	↓	No Yes		↓	↓
66	66 -139	Chimney Mortar	blk Brown	No Yes	(-) NAD	(-) NAD	
	66 -140		↓	No Yes	↓	↓	
67	67- 141	dk blue cove base	A4010	No Yes		(-) NAD	(-) NAD
	67- 142	↓	↓	No Yes		↓	↓
68	68 -143	Adhesive assoc. w/ HA-67		No Yes		(-) NAD	(-) NAD
	68 -144	↓	↓	No Yes		↓	↓
69	69 -145	top coat joint compound	A4010	No Yes	(-) NAD 1400 sf		
	69 -146	cover CMU)		No Yes			
	69 -147	↓	↓	No Yes	↓		
70	70 -148	white tan wallpaper	A4010	No Yes		(-) NAD	(-) NAD
	70 -149	↓	↓	No Yes		↓	↓
71	71 -150	white cove base	A4095	No Yes		(-) NAD	(-) NAD

Relinquished By: [signature] Date: 5-5-17 19:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

analyzed by A. Korionova 5-11-17

Contact:

Name **Adam R. Spaulding**

Company **GZA GeoEnvironmental, Inc.**

Address **55 Lane Road, Fairfield, NJ 07004**

Phone **973-774-3303**

Cell **201-396- 3804**

Project Name: **St Josephs, Paterson, NJ**

Sampling Date **3/3/2015**

Special Instructions **Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT**

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17-05-085

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e-mail adam.spaulding@gza.com benjamin.sallemi@gza.com

3303 Fax **973-774-3350**

Location **151 Barclay, Paterson, NJ**

Job No. **12.0076310.00**

BULK: [X] Asbestos, PLM - Friable
AIR: [ ] Asbestos, Air, PCM

Send initial results by: Fax [ ] [X] Phone [ ] Cell [ ] e-mail [X]

[ ] Asbestos, TEM, Chatfield [X] Asbestos, PLM - NOB [ ] Asbestos, TEM, Conventional [X] Asbestos, TEM - NOB [ ] Asbestos, TEM, PCMe

choose one only

FOR ASBESTOS, BULK, PLM ANALYSIS:

TAT REQUIRED: **Immediate** **6-Hours** **1-Day** **2-Days** **1 Week**

HA	Sample ID	Location/ Sample Description		Quantity PLM	PLM NOB
71	71-151	white cove base	A4095		(-) NAD
72	72-152	Adhesive Assoc. w/ HA-71	A4095		(-) NAD
	72-153	~~blue cove base~~	~~AH~~		
73	73-154	blue cove base	A4100		(-) NAD
	73-155	~~Adhesive Assoc. w/HA~~	~~AH~~		
74	74-156	Adhesive assoc. w/HA			(-) NAD
	74-157				
75	75-158	purple cove base	A4140		(-) NAD
	75-159				
76	76-160	Adhesive Assoc. w/			(-) NAD
	76-161				
77	77-162	2x4 Brown cellulose	C4680 Knee area		(-) NAD
	77-163				
78	78-164	fibrous spray on fireproofing	B3663	(+) 44% Amo	(-) NAD
	78-165			NA	

ed By:

y: Oscar Reyes

Date: 5-8-17 14:30

Date: 5-10-17 10:40

Date:

Analyzed by A. Korionova 5-11-17

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17-05-085

12 of 13

Project Name: ~~St. Josephs, Paterson, NJ~~
Job No. 12.0076310.00
Sampling Date ~~3/13/2015~~ Location ~~151 Barclay, Paterson NJ~~
Special Instructions Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT
Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [X] Asbestos, PLM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [X] Asbestos, TEM - NOB [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day 2-Days 1 Week

HA	Sample ID	Location/ Sample Description	Quantity	PLM Results
78	78-166	fibrous spray on fireproofing	B3663	NA
78	78-167	↓	B3350	NA
~~78~~	78168	↓	↓	NA
79	79 169	trowled on - I beams mortar	B3663	(-)NAD
	79 170	↓	↓	(-)NAD
	79 171			(-)NAD
	79 172	↓	B2006	(+) 33.3% CH 12.5% Amo
	79 173	↓	↓	NA
80	80- 174	Adhesive under wood floor	C2112	(+) 5.96% Cl NA
	80 175	↓	↓	NA NA
81	81 176	tan spray on fireproofing	C1050	1st/2nd OMy 15.4% Vermi
	81 177	↓	↓	12.1% Vermi
	81 178			14.3% Vermi
	81 179		D2234 MAIN	16% Vermi
	81 180	↓	↓	17.4% Vermi

Relinquished By: [signature] Date: 5-5-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

analyzed by A. Korionova 5-11-17

Contact:

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Project Name: ~~**St. Josephs, Paterson , NJ**~~

Sampling Date **3/13/2015**

e-mail adam.spaulding@gza.com benjamin.sallemi@gza.com

Special Instructions **Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT**

Location ~~**451 Barclay , Paterson NJ**~~

Job No. **12.0076310.00**

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17-05-085

L30

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X]

BULK: [X] Asbestos, PLM - Friable
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [X] Asbestos, PLM - NOB [ ] Asbestos, TEM, Conventional

choose one only
[X] Asbestos, TEM - NOB
[ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: **Immediate** **6-Hours** **1-Day** **2-Days** **1 Week**

HA	Sample ID	Location/ Sample Description		Quantity
81	81-181	fan sprayon fireproofing	D2234 NOB	PLM 1st U 2nd 11.8%/vermi
81	81-182	↓	↓	↓ 14.8%/vermi

Relinquished By: Oscar Reyes Date: 5-8-17 19:30

Received By: Date: 5-10-17 10:40

Received By: Date:

Analyzed by A. KORIONOVA KEJ 5-11-17

LABORATORY TESTING SERVICES INC.
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POLARIZED LIGHT MICROSCOPY ANALYSIS OF SURFACING MATERIAL CONTAINING VERMICULITE BULK SAMPLES

CLIENT/ADDRESS: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004	**PROJECT:** 345 Scarborough Road **Project #**: 41.0162512.10
ANALYT. METHODOLOGY: ELAP 198.8	**LABORATORY ID #: 17-05-085**
DATES OF ANALYSIS: 05/15/17 – 05/17/17	**DATE OF REPORT:** 05/17/17

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	COLOR/ APPEARANCE	% FIBROUS MATERIAL	%NON- FIBROUS MATERIAL	% ASBESTOS & TYPE	TOTAL ASBESTOS
176	17-05-085-176	Tan Spray-on Fireproofing, C1050	Brown	10% CELL 5% FBGL	85.0%	NAD	**0.0%**
177	17-05-085-177	Tan Spray-on Fireproofing, C1050	Brown	10% CELL 5% FBGL	85.0%	NAD	**0.0%**
178	17-05-085-178	Tan Spray-on Fireproofing, C1050	Brown	10% CELL 10% FBGL	80.0%	NAD	**0.0%**
179	17-05-085-179	Tan Spray-on Fireproofing, D2234 Main	Brown	10% CELL 5% FBGL	85.0%	NAD	**0.0%**
180	17-05-085-180	Tan Spray-on Fireproofing, D2234 Main	Brown	5% CELL 5% FBGL	90.0%	NAD	**0.0%**
181	17-05-085-181	Tan Spray-on Fireproofing, D2234 Main	Brown	10% CELL 10% FBGL	80.0%	NAD	**0.0%**
182	17-05-085-182	Tan Spray-on Fireproofing, D2234 Main	Brown	10% CELL 5% FBGL	85.0%	NAD	**0.0%**

K Gibson

ANALYST
K. Gibson

LABORATORY DIRECTOR
E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS:

- Samples will be stored for ninety (90) days. LTS Inc. should be notified within this time frame for a true duplicate analysis.
- The report relates only to items tested. This report must not be used to claim product endorsement by any agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of LTS Inc.
- NAD: No Asbestos Detected; AMPH: Amphibole; CHRYS: Chrysotile; CELL: Cellulose; FBGL: Fiberglass, H: Horse Hair, SY: Synthetic.
- The liability of LTS Inc. with respect to the services charged shall in no event exceed the amount of the invoice.

ELAP Lab Code 10955

LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-176

Initial Weights		Comments
Crucible	18.5610	
Crucible+Sample	22.3900	
Weight of Sub-Sample	3.8290	

Ashing	
Crucible+Ash	21.9150
Weight of Ash	3.3540
Weight Loss During Ash	0.4750
Weight Percent Organic and Water	12.4053

Acid Treatment/Flotation	
Weight of Dish for Floats	3.8060
Weight of Dish+Floats	3.9110
Weight of Floats	0.1050
Weight Percent Floats	2.7422
Weight of Dish+Filter for Residue	7.7170
Weight of Dish+Filter+Residue	9.3830
Weight of Residue	1.6660
Weight Loss During Acid Treatment	1.5830
Weight Percent Acid-Soluble Materials	41.3424
Weight Percent Residue	43.5101

Chrysotile Point Count

PLM Examination of Residue (Chrysotile)				
Point Count: Number of Occupied Points	400	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	0.0000	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	9.2480	Slide 8	0	50
Weight of Balance Residue	1.5310			
Weight of Dish+Filter for Centrifugate	7.6230			
Weight of Dish+Filter+Centrifugate	7.6350			
Weight of Centrifugate	0.0120			
Weight Percent of Centrifugate	0.3134			

Amphibole Point Count

PLM Examination of Centrifugate (Chrysotile)				
Point Count: Number of Occupied Points	400	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	0.0000	Slide 4	0	50
Percent Total Asbestos in Sample	0.0000	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: V Gibson Date: 05-15-17-17

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LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-177

Initial Weights	
Crucible	21.209000
Crucible+Sample	26.119000
Weight of Sub-Sample	**4.910000**

Ashing	
Crucible+Ash	25.538000
Weight of Ash	**4.329000**
Weight Loss During Ash	**0.581000**
Weight Percent Organic and Water	**11.832994**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.678000
Weight of Dish+Floats	3.884000
Weight of Floats	**0.206000**
Weight Percent Floats	**4.195519**
Weight of Dish+Filter for Residue	7.615000
Weight of Dish+Filter+Residue	9.762000
Weight of Residue	**2.147000**
Weight Loss During Acid Treatment	**1.976000**
Weight Percent Acid-Soluble Materials	**40.244399**
Weight Percent Residue	**43.727088**

Comments

PLM Examination of Residue (Chrysotile)	
Point Count: Number of Occupied Points	**400**
Number of Chrysotile Points	0
Percent Chrystotile in Sample	**0.000000**

Heavy Liquid Centrifugation	
Weight of Dish+Filter+Balance of Residue	9.698000
Weight of Balance Residue	**2.083000**
Weight of Dish+Filter for Centrifugate	7.620000
Weight of Dish+Filter+Centrifugate	7.668000
Weight of Centrifugate	**0.048000**
Weight Percent of Centrifugate	**0.977597**

Chrysotile Point Count

Slide 1	0	50
Slide 2	0	50
Slide 3	0	50
Slide 4	0	50
Slide 5	0	50
Slide6	0	50
Slide 7	0	50
Slide 8	0	50

Amphibole Point Count

PLM Examination of Centrifugate (Chrysotile)	
Point Count: Number of Occupied Points	**400**
Number of Amphibole Asbestos Points	0
Percent Amphibole Asbestos in Sample	**0.00000**
Percent Total Asbestos in Sample	**0.00**

Slide 1	0	50
Slide 2	0	50
Slide 3	0	50
Slide 4	0	50
Slide 5	0	50
Slide 6	0	50
Slide 7	0	50
Slide 8	0	50

Analyst: VA Gibson Date: 05-15-17-17

LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-178

Initial Weights		Comments
Crucible	17.498000	
Crucible+Sample	20.542000	
Weight of Sub-Sample	**3.044000**	

Ashing	
Crucible+Ash	20.122000
Weight of Ash	**2.624000**
Weight Loss During Ash	**0.420000**
Weight Percent Organic and Water	**13.797635**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.808000
Weight of Dish+Floats	3.925000
Weight of Floats	**0.117000**
Weight Percent Floats	**3.843627**
Weight of Dish+Filter for Residue	7.660000
Weight of Dish+Filter+Residue	9.021000
Weight of Residue	**1.361000**
Weight Loss During Acid Treatment	1.146000
Weight Percent Acid-Soluble Materials	**37.647832**
Weight Percent Residue	44.710907

PLM Examination of Residue (Chrysotile)		Chrysotile Point Count		
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	**0.000000**	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	8.847000	Slide 8	0	50
Weight of Balance Residue	**1.187000**			
Weight of Dish+Filter for Centrifugate	7.619000			
Weight of Dish+Filter+Centrifugate	7.645000			
Weight of Centrifugate	**0.026000**			
Weight Percent of Centrifugate	**0.854139**			

PLM Examination of Centrifugate (Chrysotile)		Amphibole Point Count		
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	**0.00000**	Slide 4	0	50
Percent Total Asbestos in Sample	**0.00**	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: V. Gibson Date: 05-15-17-17

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LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-179

Initial Weights		Comments
Crucible	19.5740	
Crucible+Sample	22.6010	
Weight of Sub-Sample	**3.0270**	

Ashing	
Crucible+Ash	22.2350
Weight of Ash	**2.6610**
Weight Loss During Ash	**0.3660**
Weight Percent Organic and Water	**12.0912**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.7750
Weight of Dish+Floats	3.8380
Weight of Floats	**0.0630**
Weight Percent Floats	**2.0813**
Weight of Dish+Filter for Residue	7.6590
Weight of Dish+Filter+Residue	9.0940
Weight of Residue	**1.4350**
Weight Loss During Acid Treatment	**1.1630**
Weight Percent Acid-Soluble Materials	**38.4209**
Weight Percent Residue	**47.4067**

PLM Examination of Residue (Chrysotile)		Chrysotile Point Count		
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	0.0000	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	9.0940	Slide 8	0	50
Weight of Balance Residue	**1.4350**			
Weight of Dish+Filter for Centrifugate	7.6200			
Weight of Dish+Filter+Centrifugate	7.6510			
Weight of Centrifugate	**0.0310**			
Weight Percent of Centrifugate	**1.0241**			

PLM Examination of Centrifugate (Chrysotile)		Amphibole Point Count		
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	0.0000	Slide 4	0	50
Percent Total Asbestos in Sample	0.0000	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: K Gibson Date: 05-15-17-17

LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-180

Initial Weights	
Crucible	19.3380
Crucible+Sample	22.4610
Weight of Sub-Sample	**3.1230**

Ashing	
Crucible+Ash	22.0730
Weight of Ash	**2.7350**
Weight Loss During Ash	**0.3880**
Weight Percent Organic and Water	**12.4240**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.7510
Weight of Dish+Floats	3.9650
Weight of Floats	**0.2140**
Weight Percent Floats	6.8524
Weight of Dish+Filter for Residue	7.7010
Weight of Dish+Filter+Residue	8.9980
Weight of Residue	**1.2970**
Weight Loss During Acid Treatment	**1.2240**
Weight Percent Acid-Soluble Materials	**39.1931**
Weight Percent Residue	41.5306

Comments

Chrysotile Point Count

PLM Examination of Residue (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	**0.0000**	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	**8.8590**	Slide 8	0	50
Weight of Balance Residue	**1.1580**			
Weight of Dish+Filter for Centrifugate	7.6190			
Weight of Dish+Filter+Centrifugate	7.6310			
Weight of Centrifugate	**0.0120**			
Weight Percent of Centrifugate	**0.3842**			

Amphibole Point Count

PLM Examination of Centrifugate (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	0.0000	Slide 4	0	50
Percent Total Asbestos in Sample	**0.0000**	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: V. Gibson Date: 05-15-17-17

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LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-181

Initial Weights	
Crucible	18.5980
Crucible+Sample	21.4450
Weight of Sub-Sample	**2.8470**

Ashing	
Crucible+Ash	21.0640
Weight of Ash	**2.4660**
Weight Loss During Ash	0.3810
Weight Percent Organic and Water	**13.3825**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.7760
Weight of Dish+Floats	3.8630
Weight of Floats	0.0870
Weight Percent Floats	**3.0558**
Weight of Dish+Filter for Residue	7.5840
Weight of Dish+Filter+Residue	8.6810
Weight of Residue	**1.0970**
Weight Loss During Acid Treatment	1.2820
Weight Percent Acid-Soluble Materials	45.0299
Weight Percent Residue	38.5318

Comments

Chrysotile Point Count

PLM Examination of Residue (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	0.0000	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	8.4490	Slide 8	0	50
Weight of Balance Residue	0.8650			
Weight of Dish+Filter for Centrifugate	7.6170			
Weight of Dish+Filter+Centrifugate	7.6590			
Weight of Centrifugate	**0.0420**			
Weight Percent of Centrifugate	1.4752			

Amphibole Point Count

PLM Examination of Centrifugate (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	0.0000	Slide 4	0	50
Percent Total Asbestos in Sample	0.0000	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: K Gibson Date: 05-15-17-17

LABORATORY TESTING SERVICES INC.
SM-V ANALYSIS CALCULATIONS

SAMPLE # 17-05-085-182

Initial Weights		**Comments**
Crucible	18.7210	
Crucible+Sample	22.0510	
Weight of Sub-Sample	**3.3300**	

Ashing	
Crucible+Ash	20.4790
Weight of Ash	**1.7580**
Weight Loss During Ash	**1.5720**
Weight Percent Organic and Water	**47.2072**

Acid Treatment/Flotation	
Weight of Dish for Floats	3.7530
Weight of Dish+Floats	3.9470
Weight of Floats	0.1940
Weight Percent Floats	**5.8258**
Weight of Dish+Filter for Residue	7.6540
Weight of Dish+Filter+Residue	8.2040
Weight of Residue	**0.5500**
Weight Loss During Acid Treatment	1.0140
Weight Percent Acid-Soluble Materials	**30.4505**
Weight Percent Residue	**16.5165**

Chrysotile Point Count

PLM Examination of Residue (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Chrysotile Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Chrystotile in Sample	0.0000	Slide 4	0	50
		Slide 5	0	50
		Slide6	0	50
Heavy Liquid Centrifugation		Slide 7	0	50
Weight of Dish+Filter+Balance of Residue	8.1290	Slide 8	0	50
Weight of Balance Residue	**0.4750**			
Weight of Dish+Filter for Centrifugate	7.5290			
Weight of Dish+Filter+Centrifugate	7.5380			
Weight of Centrifugate	0.0090			
Weight Percent of Centrifugate	0.2703			

Amphibole Point Count

PLM Examination of Centrifugate (Chrysotile)				
Point Count: Number of Occupied Points	**400**	Slide 1	0	50
Number of Amphibole Asbestos Points	0	Slide 2	0	50
		Slide 3	0	50
Percent Amphibole Asbestos in Sample	0.0000	Slide 4	0	50
Percent Total Asbestos in Sample	0.0000	Slide 5	0	50
		Slide 6	0	50
		Slide 7	0	50
		Slide 8	0	50

Analyst: K Gibson Date: 05-15-17-17

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17-05-85

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004
Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

1 of 13

Contact:
Name: Benjamin Sallemi / ~~Chris Pierce~~ A. Spaw
Company: GZA GeoEnvironmental, Inc.
Address: 55 Lane Road, Fairfield, NJ 07004
Phone: Ext. Fax: 973-774-3350
Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area Bldg C - 1st flr

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [ ] [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	
1	1-1	black cove base bldg D1 1st flr E Wall	No Yes	PLM 3250 PLM/TEM (-) NAD	(-) NAD
	1-2	" " bldg C1120	No Yes	↓	↓
2	2-3	adhesive assoc. w/ HA-1	No Yes	(-) NAD	(-) NAD
	2-4	" " bldg C1120	No Yes	↓	↓
3	3-5	12" wht w/ gry lined VFT D1280	No Yes	3250 1st flr (-) NAD	(-) NAD
	3-6	" " C1130	No Yes	↓	↓
4	4-7	adhesive assoc w/ HA-3 D1280	No Yes	(-)	(-)
	4-8	" " C1130	No Yes	↓ NAD	↓ NAD
5	5-9	12" gry VFT C-1130	No Yes	90 1st flr (-) NAD	(-) NAD
	5-10	" " C-1120	No Yes	↓	↓
6	6-11	adhesive assoc. w/ HA-5 C1130	No Yes	(-) NAD	(-) NAD
	6-12	" " C-1120	No Yes	↓	↓
7	7-13	pipe elbow pack CA1D1 wall by Meas blk	No Yes	(+) 15 1.3% CH	
	7-14	" " C1130	No Yes	NA	
	7-15	mech/boiler rm - closo	No Yes	NA	

Relinquished By: [signature] Date: 5-8-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Loukianova EM 5.11.17

17-05-085

Chain of Custody

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Phone: 973-774-3311
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benjamin.sallemi@gza.com

2 of 1

Contact:

Name: Benjamin Sallemi / Chris Pierce

Company: GZA GeoEnvironmental, Inc.

Address: 55 Lane Road, Fairfield, NJ 07004

Phone: Ext. Fax: 973-774-3350

Cell: e-mail: benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB			[X] Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
8	8-16	2x4 fissured c/tiles C1130 D1210	No Yes	PLM (-)NAD
	8-17	↓ D1210	No Yes	↓
9	9-18	gray cove base D1210	No Yes	500 lf (-)NAD
	9-19	↓ D1220	No Yes	↓
10	10-20	mastic assoc. w/HA-9 D1210	No Yes	(-)NAD
	10-21	↓ D1220	No Yes	↓
11	11-22	remnant carpet & mastic D1230	No Yes	(-)NAD
	11-23	D2234	No Yes	(-)(-)NAD ~~TS clears NAD~~
12	12-24	f/g pipe wrap by NMS blr C1010 NAM	No Yes	(-)NAD
	12-25	C1050	No Yes	(-)NAD
	12-26	C1060	No Yes	(-)NAD
13	13-27	mummy wrap C1050	No Yes	40 lf (-)NAD
	13-28	↓ C1060	No Yes	↓
	13-29	↓ C ↓	No Yes	↓ (-)NAD
14	14-30	mag block C1050	No Yes	250 lf

NOB TEM

Relinquished By: Date: 5-8-17 19:30

Received By: Date:

Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by E. Loukianova Ehp 5.11.17

Chain of Custody

GZA GeoEnvironmental, Inc.
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17-05-085

3 of 12

Contact:

Name **Benjamin Sallemi / Chris Pierce**

Company **GZA GeoEnvironmental, Inc.**

Address **55 Lane Road, Fairfield, NJ 07004**

Phone _____ Ext. _____ Fax **973-774-3350**

Cell _____ e-mail benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date _____ Location 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions **Stop at first positive for each homogeneous area**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB		[X] Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional		[ ] Asbestos, TEM, PCMe		

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
14	14-31	mag block C1080	No Yes	PLM (-) 75lf NAD ↓
	1432	C1060	No Yes	↓
15	15-33	boiler packing C1060	No Yes	150lf (+)30s/qt TR Amo
	15-34	↓	No Yes	NA
	15-35	C1060	No Yes	NA
16	16-36	12" brown w/ brown/tan specs VFT Stone 17	No Yes	2505f (-)TR CH(+)19.5
	1637		No Yes	↓ ↓ NA
17	17-38	MASTIC ASSOC. W/HA-16	No Yes	(-)TR CH(+)15.0
	1739	↓	No Yes	↓ NA
18	18-40	tan cove base DD2218	No Yes	250lf (-)NAD (-)NA
	41	↓	No Yes	↓ ↓
19	19-42	Associated mastic w/HA-18	No Yes	(-)NAD (-)NA
	19-43	↓	No Yes	↓ ↓
20	20-44	brown cove base DD2236	No Yes	100 lf (-)NAD (-)NA
	2045	↓	No Yes	↓ ↓

NOB PLM TEM

C2A drywall

Relinquished By: _____ Date: 5-9-17 - 19:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: _____ Date: _____

Analyzed by E. Loukianova Ehl 5.11.17

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004
Phone: 973-774-3311
Fax: 973-774-3350
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17-05-085

4 of

Contact:
Name: Benjamin Sallemi / Chris Pierce
Company: GZA GeoEnvironmental, Inc.
Address: 55 Lane Road, Fairfield, NJ 07004
Phone: Ext. Fax: 973-774-3350
Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB			[X] Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional			[ ] Asbestos, TEM, PCMe	

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	
21	21-46	Adhesive assoc w/ HA-20	No Yes	PLM (-)AAD	PLM NOB (-)AAD
	21-47	↓ DD2236	No Yes	↓	TEM (-)AAD ↓
22	22-48	~~2x2 fissured CHHS~~	No Yes		(-)TR. CH(+)23.8%
	22-49	9" white VFT - C2014	No Yes	250sf ↓	NA
23	23-50	↓ ↓	No Yes		(-)TR CH(+)19.6%
	23-51	Mastic assoc w/ HA-22	No Yes	↓	NA
24	24-52	9" tan VFT hallway	No Yes	400sf	(-)TR CH(+)6.12%
	24-53	C wing (up to 2014) ↓	No Yes	↓	NA
25	25-54	Mastic assoc. w/ HA-24	No Yes		(-)TR. CH(+)10.6%
	25-55	↓ C wing hallway ↓ up to 2014	No Yes	↓	NA
26	26-56	black 12" VFT rm. C2029	No Yes	750sf	(-)AAD (-)NA
	26-57	rm. C2056	No Yes	↓	↓
27	27-58	Mastic assoc w/ HA-24 rm C2029	No Yes		(-)AAD (-)TR.
	29-59	↓ rm C2056	No Yes	↓	↓
28	28-60	9" tan/white VFT B200	No Yes	↓	(-)AAD (+)7.0%

Relinquished By: Date: 5-8-17 1540

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed by E. Loukianova Ehp 5.11.17

17-05-085

Chain of Custody

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SOR

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB		[X] Asbestos, TEM - NOB		
AIR:	[ ] Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ]	Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	NOB PLM	TEM
28	28-61	9" tan/wht VFT B2028	No Yes	77sf (8 wht)	(-) NAD	NA
29	29-62	Mastic Assoc w/HA-28 B2028	No Yes		(-) NAD	(+) 5.5%
	29-63	" B2028	No Yes	↓	↓	NA
30	30-64	2x2 fissured c/tiles (212 sf)	No Yes		(-) NAD	(-) NA
	30-65	↓ B2028	No Yes		↓	↓
31	31-66	9" off wht w/black specs VFT B2028	No Yes	600sf	(-) TR. CH	(+) 15.2
	31-67	"	No Yes		↓	M
32	32-68	Mastic Assoc. w/HA-31 B2028	No Yes	↓	(-) TR. CH	(+) 22.
	32-69	"	No Yes	↓	↓	M
33	33-70	Gypsum wallboard B2028	No Yes	(-) NAD		
	33-71	B3663	No Yes	↓		
34	34-72	Joint Compound B2028	No Yes	(-) NAD		
	34-73	B3663	No Yes	↓		
35	35-74	joint tape B2028	No Yes	(-) NAD		
	35-75	B3663	No Yes	↓		

Relinquished By: Date: 5-9-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Loukianova Ehp 5.11.17

Chain of Custody

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17-05-085

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Contact:

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Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area

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AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	PLM / NOB / TEM
36	36-76	Gray/wht corner elbow C3716	No Yes	PLM	(-) TR. CH (-) TR. C
	36-77	C3716	No Yes	↓	↓
37	37-78	2x2 small ceiling tile C3790	No Yes	(-) NAD	(-) NAD
	37-79	C3790	No Yes	↓	↓
38	38-80	Gr wht / tan lined VFT B3330	No Yes	(-) TR	CH (+) 5.9% NA
	38-81	↓ B3290	No Yes	↓	
39	39-82	Mastic Assoc. w/ HA 39 B3330	No Yes	(-) TR	CH (+) 4.2% NA
	39-83	B3290	No Yes	↓	
40	40-84	CMU Mortar B3455	No Yes	BR (-) NAD GR (-) NAD	
	40-85	Perlite A	No Yes	↓ ↓	
41	41-86	Tan cove base A3090	No Yes	SOIF (-)	NAD (-) NAD
	41-87	↓	No Yes	↓ ↓	↓
42	42-88	12" wht ceiling tiles w/ pattern A380	No Yes	(-) NAD 1500SF	
	42,89	↓ ↓	No Yes	(-) NAD	
43	43-90	12" wht/blue stripe VFT C4920	No Yes	2505f (-)	NAD (-) NAD

Relinquished By: [signature] Date: 5-8-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by E. Lovkiemova Chrf 5.11.17

Chain of Custody

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17-05-085

7 of 13

Contact

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Cell: e-mail: benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X]	Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB	[X]	Asbestos, TEM - NOB	
AIR:	[ ]	Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed	PLM NOB	TEM
43	43 91	12" white/blue sheet C4920	No Yes	25 SF	(-) NAD	(-) NA
44	44 92	gray wallpaper C4930	No Yes	20 SF	(-) NAD	(-) NA
	44 93	↓ ↓	No Yes	↓	↓	↓
45	45 94	lined 2x3 ceiling tiles fissured ath tlr cement	No Yes	120 SF	(-) NAD	(-) NA
	45 95	↓	No Yes	↓	↓	↓
46	46 96	beige gray cove base B4060	No Yes	10 SF	(-) NAD	(-) NA
	46 97	↓ ↓	No Yes	↓	↓	↓
47	47 98	Adhesive Assoc. w/HA-46	No Yes		(-) NAD	(-) NA
	47 99	↓ B4607	No Yes	↓	↓	↓
48	48 100	trowel on j/compd B4610	No Yes	(-) NAD 75 SF		
	48 101	↓	No Yes	(-) NAD		
	48 102	↓	No Yes	(-) NAD		
49	49 103	roofstyle B4640	No Yes	75 SF	(-) NAD	(-) NA
	49 104	↓ ↓	No Yes	↓	↓	↓
50	50 105	12" fissured white + tile B4590	No Yes	250 SF	(-) NAD	(-) NA

Relinquished By: [signature] Date: 5-5-17 14:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed by E. Lookiranove Ehp 5.11.17

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Contact:

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Address: 55 Lane Road, Fairfield, NJ 07004
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Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [ ] [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
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FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
S0	S0-106	12" fissured wall tile mall B4590	No Yes	250sf PLM
S1	S1-107	Adhesive assoc. w/HA-S0	No Yes	
	S1-108	mall B4590	No Yes	
S2	S2-109	12" gray/white w/black spots B4440	No Yes	450sf
	S2-116	↓	No Yes	
S3	S3-111	Adhesive assoc. w/HA-S3	No Yes	
	S3-112	↓ B4440 ↓	No Yes	
S4	S4-113	lg black cove base B4440	No Yes	500sf
	S4-114	↓	No Yes	
S5	S5-115	Adhesive assoc. w/HA-S4	No Yes	
	S5-116	B4440	No Yes	
S6	S6-117	white w/ brown lines VFT 12" B4576	No Yes	550sf
	S6-118	↓ ↓	No Yes	
S7	S7-119	Adhesive assoc. w/HA-S6	No Yes	
	S7-120	↓	No Yes	

Relinquished By: [signature] Date: 5-5-17 10:30
Received By: Date:
Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by E. Loukianova Ehl 5.11.17

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17-05-085

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Contact:

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Cell: e-mail: benjamin.sallemi@gza.com /

Project Name: Phillips Job No. 41.0162512.10

Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY

Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [ ] [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB

AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location	Layered?	Layering: Describe each layer to be analyzed
58	58-121	gray w/ wht/ black vinyl stair treads/ riser	No Yes	All steps but A wing
	58-122	staircase	No Yes	
59	59-123	adhesive assoc. w/ HA 58	No Yes	
	59-124	staircase	No Yes	
60	60-125	cloth wrap on frig pipe. Penthouse B	No Yes	BR (-) NAD 300 lf
	60-126		No Yes	BR (-) NAD (-) NAD
	60-127		No Yes	
61	61-128	HVAC vib joint Penthouse C	No Yes	150 lf
	61-129		No Yes	
	61-130		No Yes	
62	62-131	brick mortar - roof on penthouse A wing	No Yes	(-) NAD Hygient
	62-132		No Yes	
63	63-133	exterior seam caulk bldg A penthouse	No Yes	
	63-134		No Yes	
64	64-135	window pour caulk bldg A penthouse	No Yes	Hygient

NOB PLM TEM

(-) NAD (-) NA

(-) NAD (-) NA

(-) NAD (-) NA

(-) NAD (-) NA

(+) 2.18% Chrysotile TRC 4

Relinquished By: [signature] Date: 5-5-17 19:30

Received By: Date:

Received By: Oscar Reyes Date: 5-10-17 10:40

Analyzed by A. Korionova 5-11-17

17-05-085

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Contact:

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Phone: Ext. Fax: 973-774-3350
Cell: e-mail: benjamin.sallemi@gza.com /
Project Name: Phillips Job No. 41.0162512.10
Sampling Date: Location: 345 Scarborough Road, Briarcliff Manor, NY
Special Instructions: Stop at first positive for each homogeneous area

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[X] Asbestos, PLM - Friable	[ ]	[X] Asbestos, PLM - NOB		[X] Asbestos, TEM - NOB	
AIR:	[ ] Asbestos, Air, PCM	[ ] Asbestos, TEM, Chatfield	[ ] Asbestos, TEM, Conventional		[ ] Asbestos, TEM, PCMe	

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 3 - 5 Days

HA	Sample ID	Sample Description / Location		Layered?	Layering: Describe each layer to be analyzed	NOB PLM	NOB TEM
64	64 -136	window pane caulk	blk/A putty	No Yes	PLM window	NA	NA
65	65 -137	flashing	blk/A roof	No Yes	same	(-) NAD	(-) NA
	65 -138	↓	↓	No Yes		↓	↓
66	66 -139	chimney mortar	blk Bi Coat	No Yes	(-) NAD		
	66 -140		↓	No Yes	↓		
67	67 -141	dk blue cove base	A4010	No Yes		(-) NAD	(-) NA
	67 -142	↓	↓	No Yes		↓	↓
68	68 -143	Adhesive assoc. w/ MA-67		No Yes		(-) NAD	(-) NA
	68 -144	↓	↓	No Yes		↓	↓
69	69 -145	top coat joint compound	A4010	No Yes	(-) NAD 400 sf		
	69 -146	cover CMU	↓	No Yes	↓		
	69 -147	↓	↓	No Yes			
70	70 -148	white/tan wall paper	A4010	No Yes		(-) NAD	(-) NA
	70 -149	↓	↓	No Yes		↓	↓
71	71 -150	white cove base	A4095	No Yes		(-) NAD	(-) NA

Relinquished By: [signature] Date: 5-5-17 19:30
Received By: Oscar Reeves Date: 5-10-17 10:40
Received By: Date:

analyzed by A. Korionova 5-11-17

Chain of Custody

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Contact:
Name Adam R. Spaulding
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Phone 973-774-3303 Ext. 3303 Fax 973-774-3350
Cell 201-396- 3804 e-mail adam.spaulding@gza.com benjamin.sallemi@gza.com
Project Name: St Josephs, Paterson, NJ Job No. 12.0076310.00
Sampling Date 3/3/2015 Location 150 Barclay, Paterson NJ
Special Instructions Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day 2-Days 1 Week

HA	Sample ID	Location/ Sample Description	Quantity PLM	PLM NOB
71	71-151	wine cave base A4095	(-) NAD	(-) NAD
72	72-152	Adhesive, Assoc. w/ HA-71, A4095	(-) NAD	(-) NAD
	72 153	~~blue cave base~~	↓	↓
73	73 154	blue cave base A4100	(-) NAD	(-) NAD
	73 155	~~Adhesive Assoc. w/HA~~	↓	↓
74	74-156	Adhesive assoc. w/HA	(-) NAD	(-) NAD
	74-157	↓	↓	↓
75	75-158	purple cave base A4140	(-) NAD	(-) NAD
	75-159	↓	↓	↓
76	76-160	Adhesive Assoc. w/	(-) NAD	(-) NAD
	76 161		↓	↓
77	77 162	2x4 Shown ceiling tiles C4680 known area	(-) NAD	(-) NAD
	77 163	↓	↓	↓
78	78-164	fibrous spray ON fireproofing B3663	(+) 444/Amo	
	78 165	↓	NA	

Relinquished By: [signature] Date: 5-8-17 19:30
Received By: Oscar Reyes Date: 5-10-17 10:40
Received By: Date:

Analyzed by A. Korionova 5-11-17

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Cell 201-396- 3804 e-mail adam.spaulding@gza.com benjamin.sallemi@gza.com

17-05-085

12 of 13

Project Name: ~~St. Josephs, Paterson, NJ~~ Job No. 12.0076310.00

Sampling Date ~~3/13/2015~~ Location ~~151 Barclay, Paterson NJ~~

Special Instructions Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK: [X] Asbestos, PLM - Friable [X] Asbestos, PLM - NOB [X] Asbestos, TEM - NOB
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [ ] Asbestos, TEM, Conventional [ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day 2-Days 1 Week

HA	Sample ID	Location/ Sample Description		Quantity PLM	TEM
78	78-166	fibrous spray on fireproofing	B3663	NA	
78	78-167	↓	B3350	NA	
~~78~~	78168	↓	↓	NA	
79	79 169	trowled on - I beam mortar	B3663	(-)NAD	
	79 170	↓	↓	(-)NAD	
	79 171	↓	↓	(-)NAD	
	79 172	↓	B2006	(+) 33.3% CH 12.5% Amo	
	79 173	↓	↓	NA	
80	80- 174	Adhesive under wood floor	C2112	(+) 5.96% Cl	NA
	80 175	↓	↓	NA	NA
81	81 176	tan spray on fireproofing	C1050	1st/2nd OMy 19% 15.4% Chrys	(-)NAD
	81 177	↓	↓	12.1% Chrys	(-)NAD
	81 178	↓	↓	14.3% Chrys	(-)NAD
	81 179	↓	D2234 MAN	16% Chrys	(-)NAD
	81 180	↓	↓	17.4% Chrys	(-)NAD

Relinquished By: [signature] Date: 5-5-17 19:30

Received By: Oscar Reyes Date: 5-10-17 10:40

Received By: Date:

Analyzed by K Gibson 05.17.17

analyzed by A. Korionova [signature] 5-11-17

Chain of Custody

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55 Lane Road, Fairfield, NJ 07004

17-05-085

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1 of 3

Project Name: ~~St. Josephs, Paterson, NJ~~
Sampling Date 3/13/2015
Location ~~151 Barclay, Paterson NJ~~
Job No. 12.0076310.00

Special Instructions Stop at first positive. Analyze NOB/TEM as necessary, 96 HR TAT

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X]

BULK: [X] Asbestos, PLM - Friable
AIR: [ ] Asbestos, Air, PCM [ ] Asbestos, TEM, Chatfield [X] Asbestos, PLM - NOB [ ] Asbestos, TEM, Conventional

choose one only
[X] Asbestos, TEM - NOB
[ ] Asbestos, TEM, PCMe

FOR ASBESTOS, BULK, PLM ANALYSIS:

TAT REQUIRED: Immediate 6-Hours 1-Day, 2-Days 1 Week

HA	Sample ID	Location/ Sample Description		Quantity
81	81-181	fan sprayon Fireproofing	D2234	1st U 2nd 198.0
81	81-182	↓	↓	11.8 %/veem (-)NAD
				14.8 %/veem (-)NAD

Relinquished By:
Received By: Oscar Reyes Date: 5-8-17 19:30
Received By: Date: 5-10-17 10:40
Date:

Analyzed by A. Korionova KEJ 5-11-17

Analyzed by K Gibson 05.17.17

Appendix C - 2018 Asbestos Laboratory Results and Certifications

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Rd., Briarcliff
Laboratory ID: 18-02-135	**Date of Report:** 02/19/18	**Date of Analysis:** 02/16/18

Client ID # Lab ID #	Stereomicroscope Analysis				Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
BC-01 18-02-135-01	A	CR	E		12-inch Ceiling Tile Interior Coating				83.10	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
BC-02 18-02-135-02	A	CR	E		12-inch Ceiling Tile Interior Coating				78.73	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
BC-03 18-02-135-03	A	BR	E		Glue Dots of 12-inch CT/4th Floor Stairs				47.33	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											
BC-04 18-02-135-04	A	BR	E		Glue Dots of 12-inch CT/4th Floor Stairs				50.87	NAD		NAD		NAD
	B	1	F											
	C	198.4/6	G											
	D		H											

Laboratory Testing Services

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough Rd., Briarcliff
Laboratory ID: 18-02-135	**Date of Report:** 02/19/18	**Date of Analysis:** 02/16/18

PLM ANALYST	PLM-NOB ANALYST	TEM-NOB ANALYST	LABORATORY DIRECTOR
	K. Esnard	E. Loukianova	E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, NYSDOH ELAP Lab ID 10955

- Samples will be stored for sixty (60) days. LTS Inc. should be notified within this time frame for a true duplicate analysis.
- Above results relate only to samples submitted and analyzed. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of LTS Inc.
- The liability of LTS Inc., with respect to the services charged, shall in no event exceed the amount of the invoice.
- Analytical Methodologies: EPA 600/M4-82-020 (Point Count only) and ELAP Methods 198.1, 198.4,198.6.
- NAD: No Asbestos Detected, NVD: No Vermiculite Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

LTS Laboratory Testing Services

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004

Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

18-02-135

Contact:
Name **Benjamin Sallemi**
Company **GZA GeoEnvironmental, Inc.**
Address **55 Lane Road, Fairfield, NJ 07004**
Phone **973-774-3311** Ext.
Fax **973-774-3350**
Cell
e-mail benjamin.sallemi@gza.com

POSTED

Project Name: RREP - Briarcliff Manor
Job No 41.0162512.10
Sampling Date 2/2/18
Location 345 Scarborough Rd.
Special Instructions **Stop at First Positive**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	[x]	Asbestos, PLM - Friable	[x]	Asbestos, PLM - NOB	[x]	Asbestos, TEM - NOB	
AIR:	[ ]	Asbestos, Air, PCM	[ ]	Asbestos, TEM, Chatfield	[ ]	Asbestos, TEM, Conventional	[ ] Asbestos, TEM, PCMe
Paint:	[ ]	Lead, Paint Chip	[ ]	Lead, Wipe			

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day **2-Days** 1 Week

HA	Sample ID	Sample Location / Description	Quantity PCM	AHERA TEM
1	BC-01	12-inch Ceiling Tile Interior coating	(-) NAD	(-) NAD
↓	-02	↓	↓	↓
2	-03	Glue Dots of 12-inch CT / 4th Floor Stairs	(-) NAD	(-) NAD
↓	-04	↓	↓	↓

Relinquished By: B.Sallemi Date: ~~2/14/18~~ 2/13/18
Received By: Oscar Reyes Date: 02/14/18 11:00
Received By: Analyzed by E. Lockamove Date: EHP 2.16.18

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough, Briarcliff
Laboratory ID: 18-02-118	**Date of Report:** 02/19/18	**Date of Analysis:** 02/15/18

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
BC-01	A	GR	E			3rd Floor - Terrazzo Flooring	100.00	NAD							NAD
	B	1	F												
18-02-118-01	C	198.1	G												
	D		H												
BC-02	A	GR	E			3rd Floor - Terrazzo Flooring	100.00	NAD							NAD
	B	1	F												
18-02-118-02	C	198.1	G												
	D		H												

Laboratory Testing Services

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** 345 Scarborough, Briarcliff
Laboratory ID: 18-02-118	**Date of Report:** 02/19/18	**Date of Analysis:** 02/15/18

PLM ANALYST
M. Young

PLM-NOB ANALYST

TEM-NOB ANALYST

LABORATORY DIRECTOR
E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, NYSDOH ELAP Lab ID 10955

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- NAD: No Asbestos Detected, NVD: No Vermiculite Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004

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Fax: 973-774-335
benjamin.sallemi@gza.cor

Contact:
Name **Benjamin Sallemi**
Company **GZA GeoEnvironmental, Inc.**
Address **55 Lane Road, Fairfield, NJ 07004**
Phone **973-774-3311** Ext.
Cell
e-mail benjamin.sallemi@gza.com
Fax **973-774-3350**

18-02-118

POSTED

Project Name: RREP - 345 Searborough, Briarcliff, NY
Job No. 41-01625 12. 10
Sampling Date 2/12/18
Location Philips - Briarcliff
Special Instructions Stop at First Positive

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	x	Asbestos, PLM - Friable	x	Asbestos, PLM - NOB	x	Asbestos, TEM - NOB	
AIR:		Asbestos, Air, PCM		Asbestos, TEM, Chatfield		Asbestos, TEM, Conventional	Asbestos, TEM, PCMe
Paint:		Lead, Paint Chip		Lead, Wipe			

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day (2-Days) 1 Week

HA	Sample ID	Sample Location / Description	Quantity
	BC-01	3rd Floor - Terrazzo Flooring (-)NAD	Please analyze terrazzo only; not cement.
	BC-02	↓ ↓ ↓ (-)NAD	

Relinquished By: B.Sallemi Date: 2/12/18
Received By: Ozer-Reyes Date: 2/13/18 1300
Received By: Date:
Analyzed by: M. Young 2/15/18

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** Former Philips Research Center, 345 Scarborough Rd.
Laboratory ID: 18-03-244	**Date of Report:** 03/21/18	**Date of Analysis:** 03/21/18

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% AII	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
BC-01	A	GR	E			Lavatories - Ceramic Floor Tile Adhesive	95.00	NAD							NAD
18-03-244-01	B	1	F												
	C	198.1	G												
	D	5	H												
BC-02	A	GR	E			Lavatories - Ceramic Floor Tile Adhesive	95.00	NAD							NAD
18-03-244-02	B	1	F												
	C	198.1	G												
	D	5	H												
BC-03	A	BR	E			Lavatories - Grout from Wall & Floor	100.00	NAD							NAD
18-03-244-03	B	1	F												
	C	198.1	G												
	D		H												
BC-04	A	BR	E			Lavatories - Grout from Wall & Floor	100.00	NAD							NAD
18-03-244-04	B	1	F												
	C	198.1	G												
	D		H												
BC-05	A	WH	E			Lavatories - Ceramic Wall Tile Adhesive	100.00	NAD							NAD
18-03-244-05	B	1	F												
	C	198.1	G												
	D		H												
BC-06	A	WH	E			Lavatories - Ceramic Wall Tile Adhesive	100.00	NAD							NAD
18-03-244-06	B	1	F												
	C	198.1	G												
	D		H												

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: GZA GeoEnvironmental, Inc./55 Lane Road, Fairfield, NJ 07004		**Project:** Former Philips Research Center, 345 Scarborough Rd.
Laboratory ID: 18-03-244	**Date of Report:** 03/21/18	**Date of Analysis:** 03/21/18

PLM-ANALYST	PLM-NOB ANALYST	TEM-NOB ANALYST	LABORATORY DIRECTOR
M. Young			E. Dimitrakas

LABORATORY ACCREDITATION NUMBERS: NVLAP Lab Code 101958-0, NYSDOH ELAP Lab ID 10955

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- The liability of LTS Inc., with respect to the services charged, shall in no event exceed the amount of the invoice.
- Analytical Methodologies: EPA 600/M4-82-020 (Point Count only) and ELAP Methods 198.1, 198.4,198.6.
- NAD: No Asbestos Detected, NVD: No Vermiculite Detected, SAFP: Stopped at First Positive, CH: Chrysotile, AMOS: Amosite, TRE: Tremolite, ANTH: Anthophyllite, ACT: Actinolite, and CRO: Crocidolite.
- Stereomicroscopic Analysis: A: Color, B: Layers, C: Methodology, D: Cellulose, E: Fiberglass, F: Hair, G: Vermiculite, H: OTHER
- Color: BK: Black, BR: Brown, Dk BR: Dark Brown, Lt BR: Light Brown, R BR: Reddish Brown, GR: Gray, Dk GR: Dark Gray, Lt GR: Light Gray, BE: Beige, P: Pink, R: Red, T: Tan, WH: White, Off WH: Off White, Y: Yellow, BL: Blue, CR: Cream, GN: Green, O: Orange, Multi.: Multiple Colors

Chain of Custody

GZA GeoEnvironmental, Inc.
55 Lane Road, Fairfield, NJ 07004
Phone: 973-774-3311
Fax: 973-774-3350
benjamin.sallemi@gza.com

18-03-244

POSTED

1 of 1

Contact:
Name **Benjamin Sallemi**
Company **GZA GeoEnvironmental, Inc.**
Address **55 Lane Road, Fairfield, NJ 07004**
Phone **973-774-3311** Ext. Fax **973-774-3350**
Cell e-mail benjamin.sallemi@gza.com

Project Name: RREP - Former Philips Research Center Job No. 41.0162512.00
Sampling Date 3/20/18 Location 345 Scarborough Rd.
Special Instructions **Stop at First Positive**

Send initial results by: Fax [ ] Phone [ ] Cell [ ] e-mail [X] choose one only

BULK:	x	Asbestos, PLM - Friable	x	Asbestos, PLM - NOB	x	Asbestos, TEM - NOB	
AIR:		Asbestos, Air, PCM		Asbestos, TEM, Chatfield		Asbestos, TEM, Conventional	Asbestos, TEM, PCMe
Paint:		Lead, Paint Chip		Lead, Wipe			

FOR ASBESTOS, BULK, PLM ANALYSIS: TAT REQUIRED: Immediate 6-Hours 1-Day 2-Days 1 Week

HA	Sample ID	Sample Location / Description	Quantity
1	BC-01	Laminates - Ceramic floor tile adhesive	PLM (-)/ND 24 Hr TAT
↓	BC-02	- ↓ ↓ ↓	↓
2	BC-03	- Grout from wall + Floor	(-)/ND
↓	BC-04	- ↓ ↓ ↓	↓
3	BC-05	- Ceramic wall tile adhesive	(-)/ND
↓	BC-06	- ↓ ↓ ↓	↓

Relinquished By: [signature] Date: 3/20/18
Received By: Tyler Lavitsky Date: 3/21/18 10:00
Received By: / Date:
Analyzed by: M. Yousuf 3/21/18



GZA GeoEnvironmental, Inc.

Appendix C
Project Site Plans

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BRIARCLIFF MANOR SOLAR

345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510

PROJECT DATA

PARCEL INFORMATION

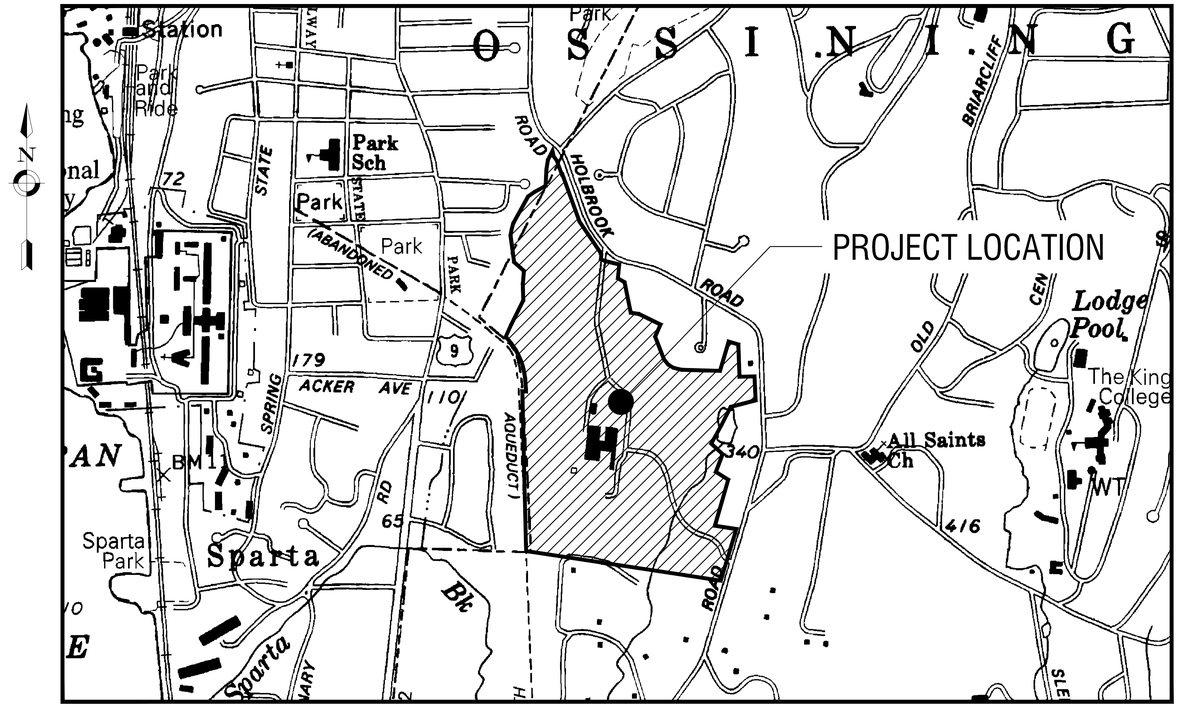
APPLICANT	YSG SOLAR
PARCEL ADDRESS	345 SCARBOROUGH ROAD, BRIARCLIFF MANOR, NY 10510
TAX NUMBER	97.16-1-1 & 97.12-1-9
GPS COORDINATES	N: 41.14807° N W: 73.85505° W
AVERAGE SITE ELEVATION	265'
PARCEL AREA	± 95.5 ACRES
DISTURBANCE AREA	±49.33 ACRES
EQUIPMENT PAD AREA	±800 SF
FENCED AREA	±47.14 ACRES
DRIVEN POST CROSS SECTIONAL AREA	4 SF
DRIVEN POST QUANTITY	±2,484
DRIVEN POST CROSS SECTIONAL AREA (TOTAL)	±9,936
ROAD LENGTH	±1,700 FT
SILT FENCE	±14,030 FT
CHAIN LINK FENCE	± 7,640 FT
GATE COUNT	3 - 20' WIDE DOUBLE SWING GATE

SYSTEM SUMMARY (TOTAL)

	SOUTH	NORTH
SYSTEM AC SIZE (MW)	5.0	5.0
SYSTEM DC SIZE (MW)	7,633	8,463
MODULE COUNT	14,136	15,672
INVERTER COUNT	50	50
SWITCH GEAR COUNT	1	1
TRANSFORMER COUNT	5	5
EQUIPMENT PAD COUNT	2	2
UTILITY POLE COUNT	1	1

ZONING INFORMATION

	REQUIRED	PROPOSED
CODE APPLIED	VILLAGE OF BRIARCLIFF MANOR	
WEBSITE	HTTPS://ECODE360.COM/7690937 REFER TO CHAPTERS 178 & 220	
CLASSIFICATION	COMPLEMENTARY USE TRANSITION 1 (CT1)	
FRONT SETBACK	200 FT	200 FT
SIDE SETBACK	200 FT	200 FT
REAR SETBACK	200 FT	200 FT
DWELLING SETBACK	N/A	N/A
MIN FENCE HEIGHT	6 FT	7 FT



LOCATION MAP
1"=600'

YSG SOLAR

79 MADISON AVE, 8TH FLOOR
NEW YORK, NY 10016
PROJECT NO: 2221884
05/10/2022

YSG SOLAR

LaBella
Powered by partnership.
300 State Street, Suite 201
Rochester, NY 14614
585-454-6110
labellapc.com

ISSUED FOR REVIEW
05/10/2022

YSG SOLAR
PROJECT NO: 2221884

BRIARCLIFF MANOR SOLAR
345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510

GENERAL NOTES

1. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE TO LOCATE UTILITIES OUTSIDE THE RIGHT-OF-WAY INCLUDING PRIVATE ROADS.
2. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES, NECESSARY TO PERFORM THE WORK CONTAINED IN THIS CONTRACT.
4. THE SIZES AND MATERIAL OF CONSTRUCTION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS TO REMAIN ARE REPUTED. THE CONTRACTOR SHALL VERIFY SIZES OF ALL UTILITIES WHERE CONNECTIONS TO SAID EXISTING UTILITIES ARE REQUIRED. EXCAVATION TO VERIFY THESE UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AMENITIES NOT DESIGNATED FOR REMOVAL.
6. UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING FROM DAMAGE ALL TREES, SHRUBS AND PLANTS IN THE VICINITY OF THE PROPOSED WORK.
7. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
8. ANY SITE AMENITY, UTILITY, STREET APPURTENANCE, OR OTHER ITEM WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AS DETERMINED BY THE PROJECT MANAGER OR ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

SURVEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MARKERS AND RIGHT-OF-WAY MARKERS IN THE AREA OF CONSTRUCTION.
3. ANY IRON PINS, MONUMENTS OR OTHER ITEMS DEFINING PROPERTY LINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET BY A NYS LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
4. THE HORIZONTAL DATUM IS REFERENCED TO NORTH AMERICAN DATUM 83 (NAD 83) - STATE PLANE NEW YORK CENTRAL.
5. THE VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFE NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
3. WORK ASSOCIATED WITH THIS CONTRACT WILL OCCUR AT AN ACTIVE AND FUNCTIONAL FACILITY. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OPERATIONS OF THE FACILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE A SAFE WORK SITE AND TO PROTECT THE PUBLIC, VISITORS AND EMPLOYEES FROM HARM AS A RESULT OF HIS CONSTRUCTION ACTIVITIES.
4. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, STRUCTURES, AND APPURTENANCES IN THE PATH OF AND ADJACENT TO THE PROPOSED WORK.
5. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
6. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
7. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT, LOCAL FIRE DEPARTMENT AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AS NECESSARY AND SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO BEGINNING WORK. COPIES OF ANY REQUIRED PERMITS SHALL BE PROVIDED TO THE OWNER PRIOR TO BEGINNING THE WORK.
8. CONTRACTOR SHALL REMOVE FROM SITE, MATERIALS NOT INDICATED TO BE SALVAGED INCLUDING ALL DEBRIS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
9. ALL TREES, SHRUBS AND PLANTS DESIGNATED TO REMAIN AND DISTURBED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED IN-KIND AS DIRECTED BY THE ARCHITECT/ENGINEER AND/OR OWNER'S DESIGNATED REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO THE EXISTING BUILDINGS FOR THE DURATION OF THE CONTRACT.
11. WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTORS WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE, AT NO COST TO THE OWNER. ALL REPAIRS AND/OR REPLACEMENTS WILL BE SUBJECT TO OWNERS APPROVAL.
12. COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

SITE NOTES

1. WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
2. ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES PROJECT MANAGER IN WRITING.
4. ANY PROOF-ROLLING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.
5. EXISTING WETLANDS DELINEATED BY XXXX ON XX/XX/XXXX.
6. PARCEL LINES AS SHOWN BY WESTCHESTER COUNTY GIS DATABASE, FOR THE VILLAGE OF BRIARCLIFF MANOR.

GRADING NOTES

1. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF OSHA, AND ANY OTHER AGENCY HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS WITH TRENCHING OPERATIONS. THE REQUIREMENTS SET FORTH HEREIN ARE INTENDED TO SUPPLEMENT REQUIREMENTS ESTABLISHED BY THESE AGENCIES. IN THE CASE OF A CONFLICT BETWEEN REQUIREMENTS OF OTHER JURISDICTIONAL AGENCIES AND THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL APPLY.
2. SHEETING, IF REQUIRED DURING CONSTRUCTION, IS CONSIDERED TO BE PART OF THIS CONTRACT AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL TRENCHES THROUGH PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION AND AGAIN PRIOR TO PAVEMENT RESTORATION.
4. CONTRACTOR SHALL ADJUST THE RIMS OF ALL MANHOLES, CATCH BASINS, VALVE BOXES AND OTHER UTILITY SITE STRUCTURES TO MEET FINISHED GRADE IN AREAS REQUIRING REPAVING OR REGRADING AS PART OF THE WORK, INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS.
5. VOIDS LEFT BY UTILITY OR STRUCTURE REMOVAL OR GRUBBING OPERATIONS SHALL BE BACKFILLED AND PROPERLY COMPACTED WITH STRUCTURAL FILL (NYSDOT ITEM 304.12) IN AREAS UNDER AND WITHIN 5 FEET HORIZONTALLY OF ALL STRUCTURES, BUILDINGS AND PAVEMENTS. IN GRASSED AREAS, VOIDS LEFT SHALL BE FILLED AND PROPERLY COMPACTED WITH SUITABLE ON-SITE OR IMPORTED EARTHEN BACKFILL. ALL DISTURBED AREAS SHALL BE RESTORED.
6. THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS TO PREVENT THE INTRODUCTION OF GROUNDWATER INTO THE TRENCHES/EXCAVATIONS. PROVIDE ALL EQUIPMENT NECESSARY TO MAINTAIN THE GROUNDWATER LEVEL AS NECESSARY.
7. THE CONTRACTOR SHALL PLACE AT MINIMUM 6 INCHES OF CLEANED SCREENED TOPSOIL IN ALL DISTURBED AREAS PRIOR TO SEEDING.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
2. UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION. THE AREA OF DISTURBANCE SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED.
4. REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ENGINEER. THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE BID PRICE.
5. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
6. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM/SANITARY SEWERS. DITCHES OR OTHER WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM/SANITARY SEWERS, DITCHES, RIVERS, OR WATER COURSES.
7. ALL EXCAVATED OR IMPORTED EARTHEN STOCKPILES SHALL BE SUITABLY STABILIZED AND PROTECTED BY SILT FENCE SO THAT IT CANNOT REASONABLY ENTER ANY WATER BODY, OR STORM OR SANITARY SEWER.
8. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ARCHITECT/ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS.
10. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
11. CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
12. ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE STONED INLET PROTECTION AROUND THEM AND GEOTEXTILE FABRIC OVER THE GRATE TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.
13. TILL ALL COMPACTED SOILS LOCATED IN LAWN AREAS TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL PRIOR TO SEEDING.

LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		PROJECT BENCHMARK / CONTROL POINTS			END SECTION
		WETLAND			CATCH BASIN
		WETLAND BUFFER			DRAIN BASIN
		BORING LOCATIONS			INLET MANHOLE
		OBJECT REMOVAL			MANHOLE (SOLID COVER)
		TREE REMOVAL			INLET DRYWELL
		- REMOVAL UTILITY		CO	CLEAN OUT
		- REMOVAL FENCE		DS	DOWN SPOUT
		SAWCUT			HYDRANT
		PROTECTION (OBJECT)			VALVE
		TREE PROTECTION			SAMPLING TAP
		FENCE, CHAIN LINK			(OTHER) FLOW ARROW
		FENCE, AGRICULTURAL	CTV CTV	CTV CTV	CATV
		FENCE, ORNAMENTAL	COMM COMM	COMM COMM	COMMUNICATIONS
		FENCE, GUIDE RAIL	FO FO	FO FO	FIBER OPTICS
		TREE/VEGETATION LIMIT	SIG	SIG	SIGNAL LINE
BLDG	BLDG	BUILDING/STRUCTURE	T T	T T	TELEPHONE LINE
		PROPERTY LINE	OE OE	OE OE	OVERHEAD ELECTRIC
		SETBACK LINE	P P	P	POWER LINE
PE		EASEMENTS	UE UE	UE UE	UNDERGROUND ELECTRIC
ROW		RIGHT-OF-WAY	G	G	GAS LINE
		RETAINING WALL	SA	SA	SANITARY LINE
		BOLLARD	FM FM	FM	SANITARY FORCEMAIN
		FLAG POLE	ST	ST	STORM LINE
		SIGN			STORM UNDERDRAIN PIPE
		DECIDUOUS TREE	FS	FS	WATER FIRE SERVICE LINE
		CONIFEROUS TREE	W	W	WATER LINE
		TREE STUMP	ST-SA	ST-SA	COMBINED SANITARY AND STORM
		OUTLET PROTECTION			FUEL LINES (DIESEL/UNLEADED)
		BIORETENTION	-510-	510	MAJOR CONTOUR
		BOLLARD LIGHT POLE	-509-	509	MINOR CONTOUR
		LIGHT POLE SINGLE			℄ OF DRAINAGE SWALE
		LIGHT POLE DOUBLE			SILT SOCK
		LIGHT POLE TRIPLE			EROSION FENCE
		LIGHT POLE QUAD			FLOW/SLOPE DIRECTION
		UTILITY POLE			SILT SOCK INLET PROTECTION
		UTILITY POLE WITH LIGHT			SILT FENCE INLET PROTECTION
H/H	HH	HANDHOLE			CHECK DAM
E	E	MANHOLE			STABILIZED CONSTRUCTION ENTRANCE (TEMPORARY)

DRAWING INDEX

C000 COVER SHEET

C001 GENERAL NOTES, LEGEND, AND DRAWING INDEX

C101 EXISTING CONDITIONS AND DEMOLITION PLAN

C102 EXISTING CONDITIONS AND DEMOLITION PLAN

C200 OVERALL SITE PLAN

C201 SITE AND UTILITY PLAN

C202 SITE AND UTILITY PLAN

C401 GRADING AND EROSION CONTROL PLAN

C402 GRADING AND EROSION CONTROL PLAN

C501 CONSTRUCTION DETAILS

C502 CONSTRUCTION DETAILS

C503 CONSTRUCTION DETAILS

C601 LANDSCAPE PLAN

C602 LANDSCAPE PLAN

C701 DECOMMISSIONING PLAN - PHASE I

C702 DECOMMISSIONING PLAN - PHASE I

C703 DECOMMISSIONING PLAN - PHASE II

C704 DECOMMISSIONING PLAN - PHASE II

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BRIARCLIFF SOLAR ARRAY
345 SCARBOROUGH RD,
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NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2221884

DRAWN BY: CC

REVIEWED BY: EP

ISSUED FOR: REVIEW

DATE: 5/10/2022

DRAWING NAME:

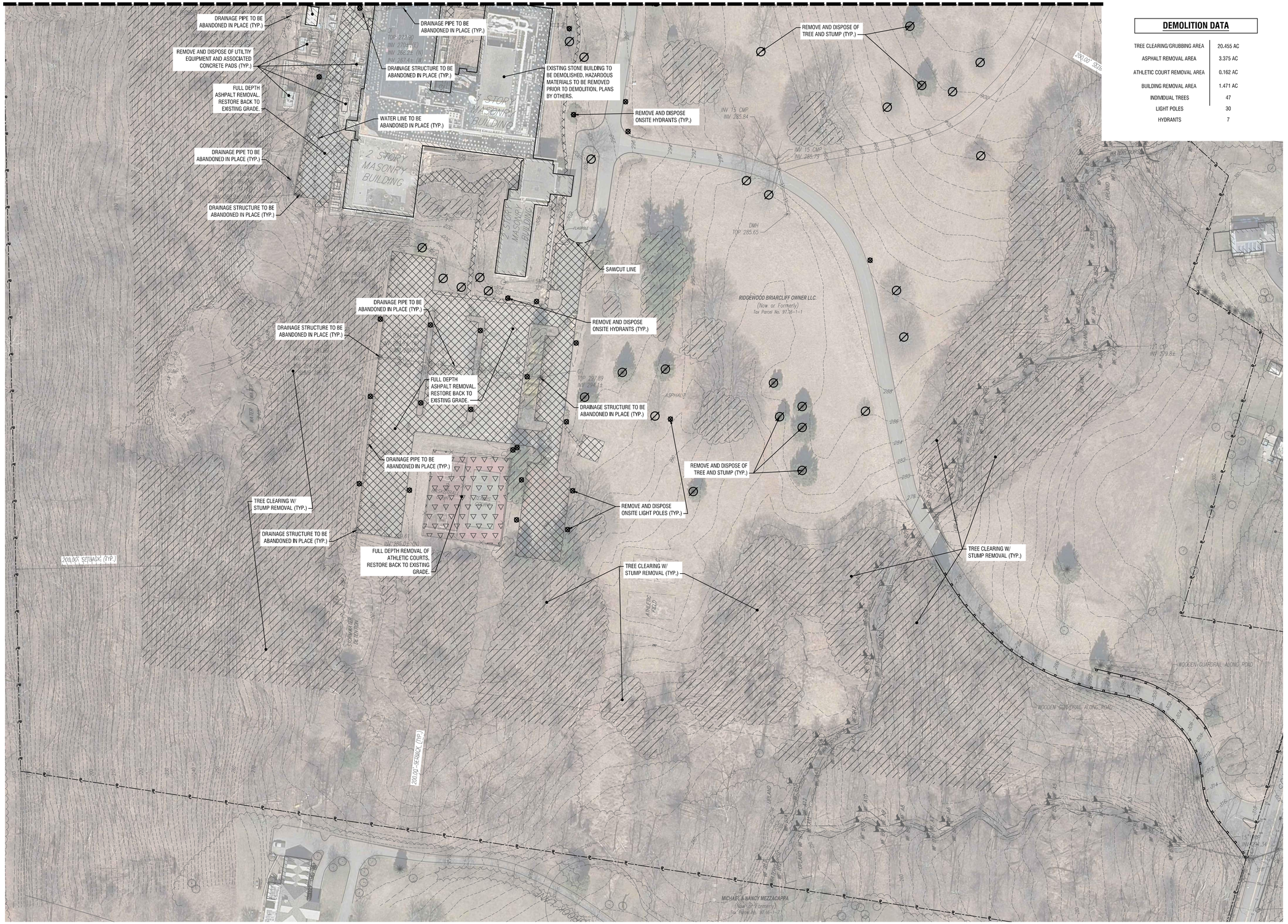
GENERAL NOTES LEGEND AND DRAWING INDEX

DRAWING NUMBER:

C001

VERSION 21.1
5/10/2022 3:39:50 PM

MATCHLINE SEE SHEET CD102



DEMOLITION DATA

TREE CLEARING/GRUBBING AREA	20.455 AC
ASPHALT REMOVAL AREA	3.375 AC
ATHLETIC COURT REMOVAL AREA	0.162 AC
BUILDING REMOVAL AREA	1.471 AC
INDIVIDUAL TREES	47
LIGHT POLES	30
HYDRANTS	7

1 CD101 EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 60'

N

0' 60' 120' 180'

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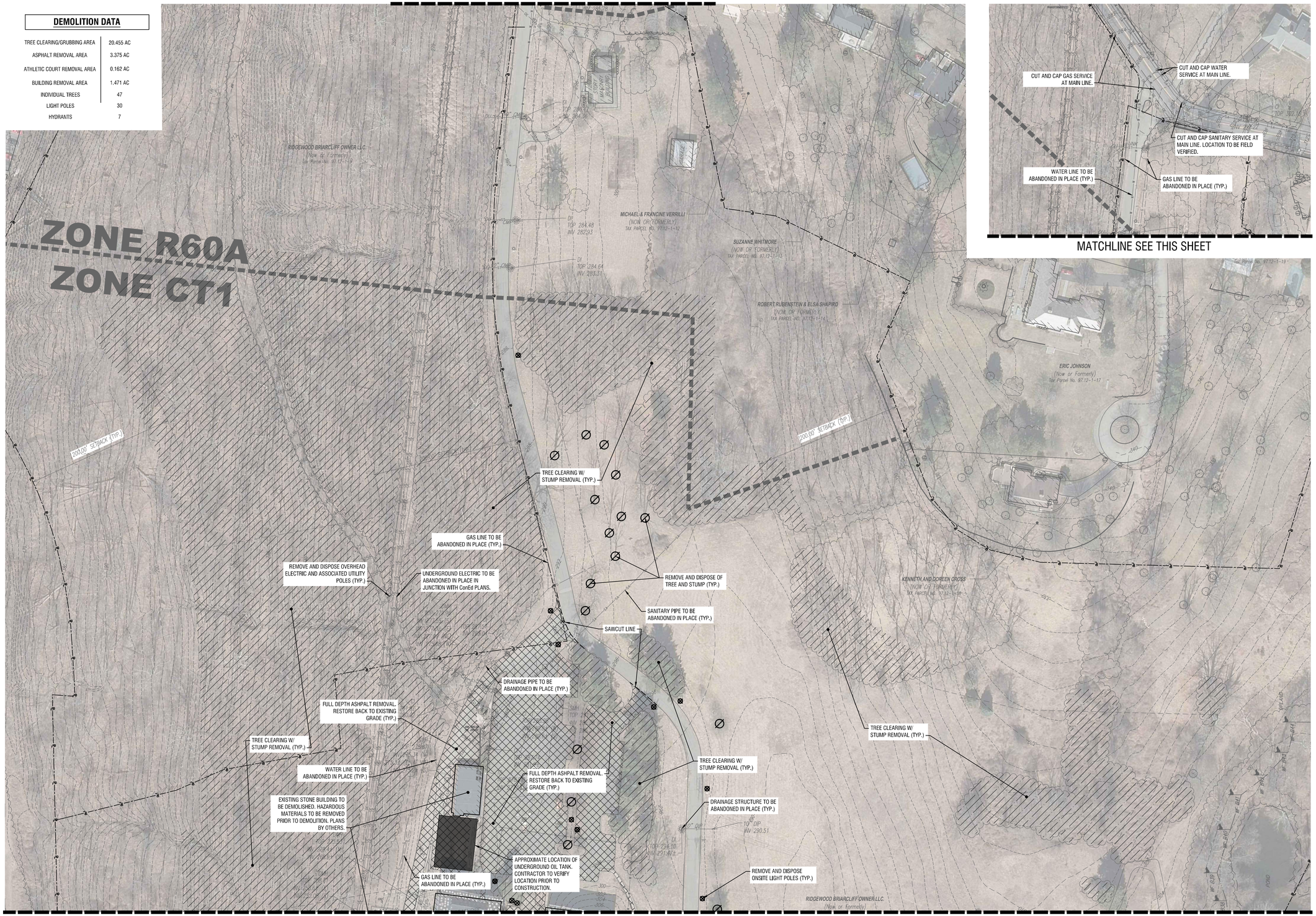
EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING NUMBER:

CD101

DEMOLITION DATA

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LIGHT POLES	30
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1 CD102 EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1" = 60'

N

0' 60' 120' 180'

VERSION 21.1
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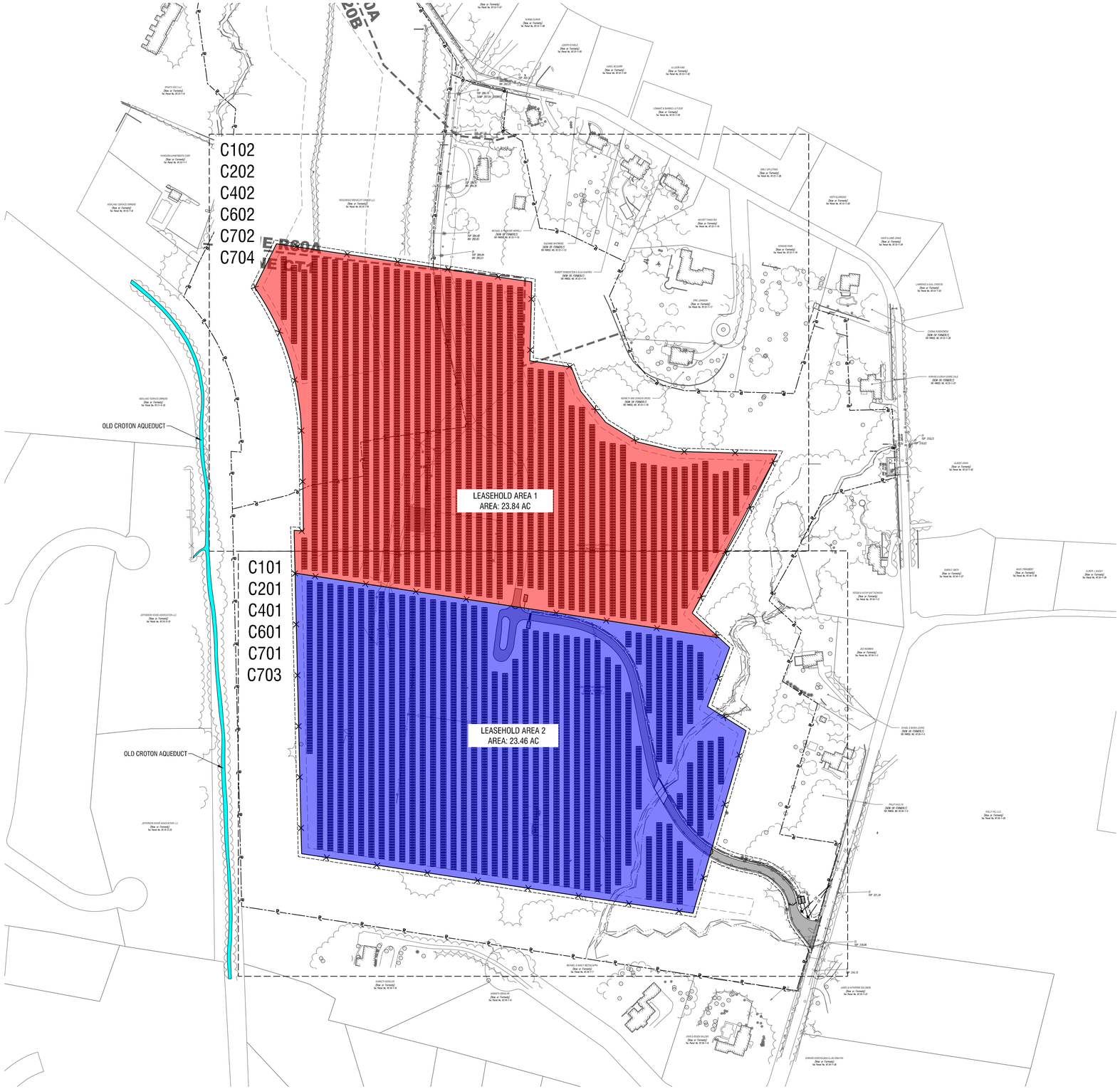
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Revisions		

PROJECT NUMBER: 2221884
DRAWN BY: CC
REVIEWED BY: EP
ISSUED FOR: REVIEW
DATE: 5/10/2022
DRAWING NAME:

EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING NUMBER:

CD102



1 C200 OVERALL SITE PLAN

SCALE: 1" = 150'

N

0' 150' 300' 450'

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DRAWING NAME:

OVERALL SITE PLAN

DRAWING NUMBER:

C200

MATCHLINE SEE SHEET C202

NEW 7' TALL, 20' WIDE METAL DOUBLE SWING GATE

NEW EQUIPMENT PADS

NEW 7' TALL METAL CHAIN LINK FENCE

PAVEMENT REPLACEMENT FOLLOWING ELECTRICAL TRENCH. REFER TO DETAIL 1/C503

NEW UNDERGROUND ELECTRIC LINE

EXISTING ASPHALT ACCESS ROAD

ANDREWS BRARCLIFF OWNER LLC
(Now or Formerly)
Tax Parcel No. 97.16-1-1

SOUTH ARRAY- (14,136) 540W PV MODULES
DC ARRAY = 7633 KWDC

200.00' SETBACK (TYP.)

UNDERGROUND ELECTRICAL TO BE TIED TO BRIDGE.

NEW 7' TALL, 20' WIDE METAL DOUBLE SWING GATE

NEW UNDERGROUND ELECTRIC LINE

WOODEN GUARDRAIL ALONG ROAD

POINT OF INTERCONNECTION

NEW DOUBLE SWING SITE ACCESS GATE

EQUIPMENT PADS
CUSTOMER OWNED HIGH-TENSION METERING ENCLOSURE
CUSTOMER OWNED DISCONNECT

UTILITY OWNED RISER POLE WITH RECLOSER

NEW 7' TALL METAL CHAIN LINK FENCE

PROPOSED WORK LIMITS/ DISTURBANCE LIMITS
2,148,798 SFT (49.33 ACRES)

ATHLETIC FIELD

MICHAEL & NANCY MEZZACAPPA
(Now or Formerly)
Tax Parcel No. 97.16-1-7

1 C201 SITE AND UTILITY PLAN
SCALE: 1" = 60'

N

0' 60' 120' 180'

VERSION 21.1
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DATE: 5/10/2022
DRAWING NAME:

SITE AND UTILITY PLAN

DRAWING NUMBER:

C201



1 / C202 SITE AND UTILITY PLAN

SCALE: 1" = 60'

N

0' 60' 120' 180'

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Revisions		

PROJECT NUMBER: 2221884

DRAWN BY: CC

REVIEWED BY: EP

ISSUED FOR: REVIEW

DATE: 5/10/2022

DRAWING NAME:

SITE AND UTILITY PLAN

DRAWING NUMBER:

C202



1 C401 GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 60'

N

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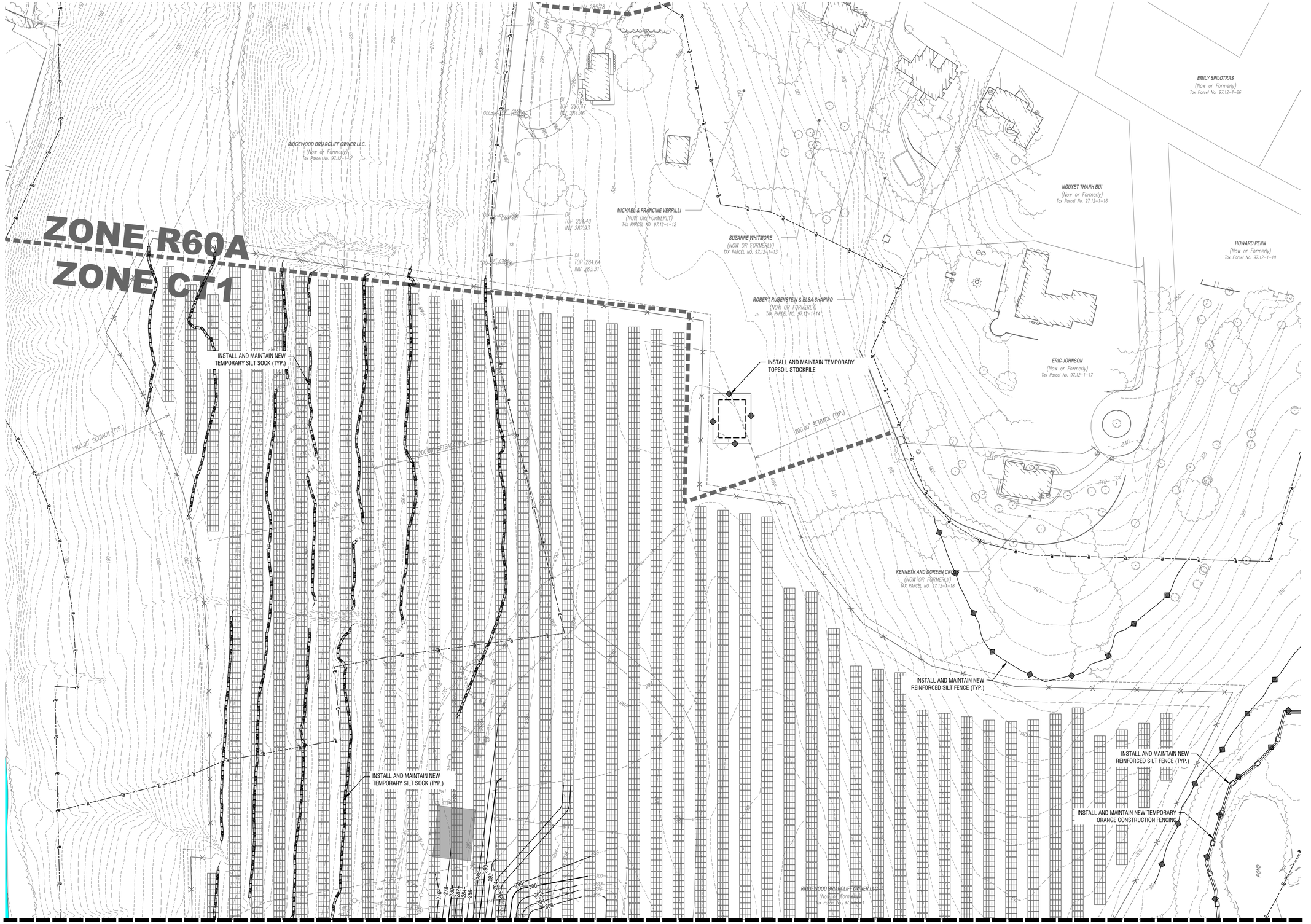
REVIEWED BY: EP

ISSUED FOR: REVIEW

DATE: 5/10/2022

DRAWING NAME: GRADING AND EROSION CONTROL PLAN

DRAWING NUMBER: C401



MATCHLINE SEE SHEET C201

1 C402 GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 60'

N

VERSION 21.1
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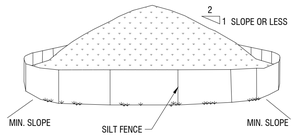
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DATE: 5/10/2022
DRAWING NAME:

GRADING AND EROSION CONTROL PLAN

DRAWING NUMBER:

C402

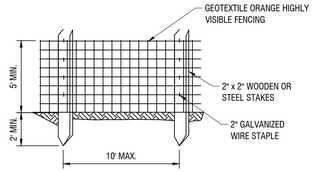


NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS AND DETAIL FOR INSTALLATION OF SILT FENCE.

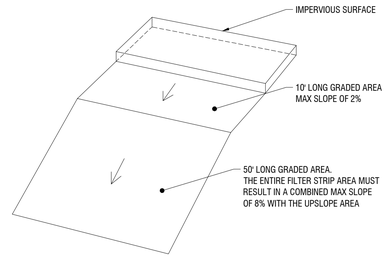
1 C501 — TEMPORARY SOIL STOCKPILE

N.T.S.



2 C501 — ORANGE CONSTRUCTION FENCE

N.T.S.

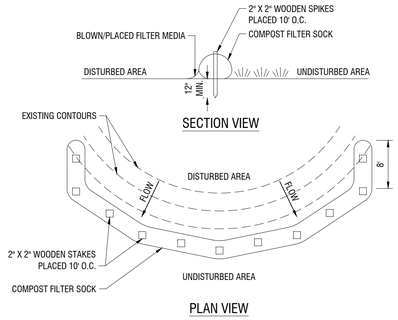


NOTES:

1. NO FUTURE DEVELOPMENT IS ALLOWED ON FILTER STRIP AREA.
2. AREAS TO BE SEEDED USING SPECIFIED SEED MIXTURE ON THE LANDSCAPING PLAN.

3 C501 — VEGETATIVE FILTER STRIP

N.T.S.



4 C501 — COMPOST FILTER SOCK

NYS DEC DETAIL: COMPOST FILTER SOCK

NOTE:

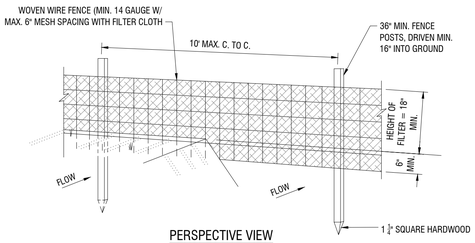
1. CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

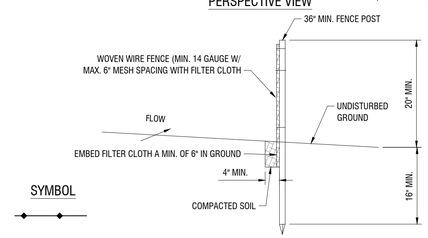
CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

5 C501 — CONCRETE WASHOUT AREA WITH STRAW BALES

N.T.S.





SYMBOL

NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA 140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

6 C501 — SILT FENCE

NYS DEC DETAIL: SILT FENCE

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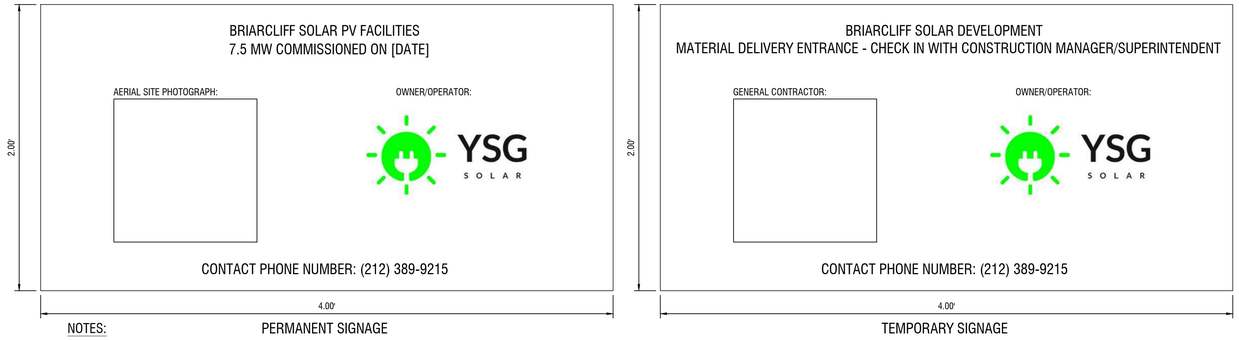
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DATE: 5/10/2022
DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C501

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5/10/2022 3:46:31 PM



NOTES: PERMANENT SIGNAGE | TEMPORARY SIGNAGE

1. PERMANENT SIGNAGE TO BE INSTALLED ON GATE AFTER ARRAY HAS BEEN COMMISSIONED.
2. TEMPORARY SIGNAGE TO BE INSTALLED ALONG GRAVEL DRIVE PRIOR TO CONSTRUCTION.
3. TEMPORARY SIGNAGE TO BE REMOVED AFTER ARRAY HAS BEEN COMMISSIONED AND BEFORE PERMANENT SIGNAGE IS INSTALLED.

1 / C502 TEMPORARY AND PERMANENT SIGNAGE

N.T.S.

WARNING

WARNING : 35 KVA
DIRECT BURIED LINE
APPROXIMATE DEPTH 60"

WARNING

ANYONE DAMAGING, VANDALIZING, OR INTERFERING WITH THE OPERATION OF THIS FACILITY IS IN VIOLATION OF TITLE 18. UNITED STATES CODE SECTION 1366 AND PUNISHABLE BY 10 YEARS IMPRISONMENT AND $50,000 FINE.

DANGER

HIGH VOLTAGE.
KEEP OUT

WARNING

THESE FACILITIES ARE MONITORED BY VIDEO & ELECTRONIC SECURITY EQUIPMENT

NOTICE

IN CASE OF EMERGENCY CALL
212-389-9215

BRIARCLIFF SOLAR ARRAY

YSG SOLAR
24HR EMERGENCY CONTACT
(212) 389-9215

NO TRESPASSING

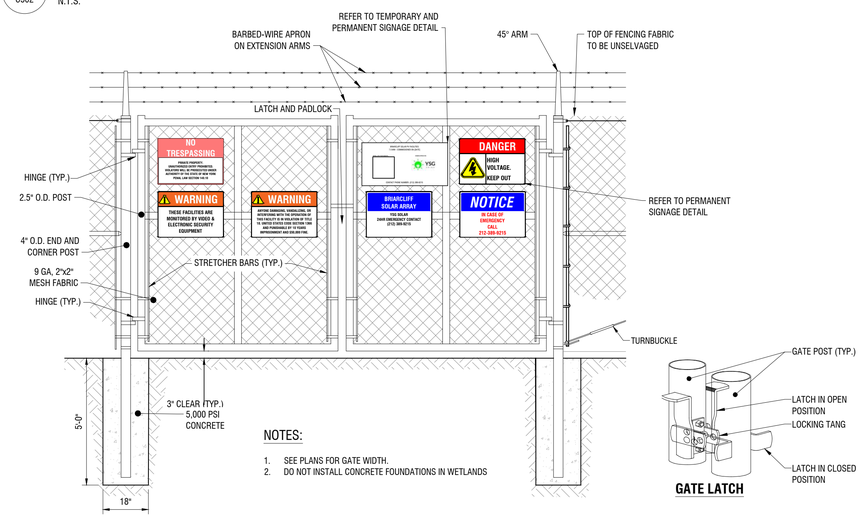
PRIVATE PROPERTY.
UNAUTHORIZED ENTRY PROHIBITED.
VIOLATORS WILL BE PROSECUTED UNDER AUTHORITY OF THE STATE OF NEW YORK PENAL LAW SECTION 140.10

NOTES:

1. ALL SIGNS TO BE 18" x 24" IN SIZE
2. SIGNS SHALL BE UV RESISTANT AND IN COLOR. SIGN MATERIAL SHALL BE HDPE OR LIGHT GAGE GALVANIZED STEEL.
3. SIGNS TO BE ATTACHED TO FENCING WITH PERMANENT FASTENERS OR INSTALLED IN SIGN POST

2 / C502 PERMANENT SIGNAGE

N.T.S.

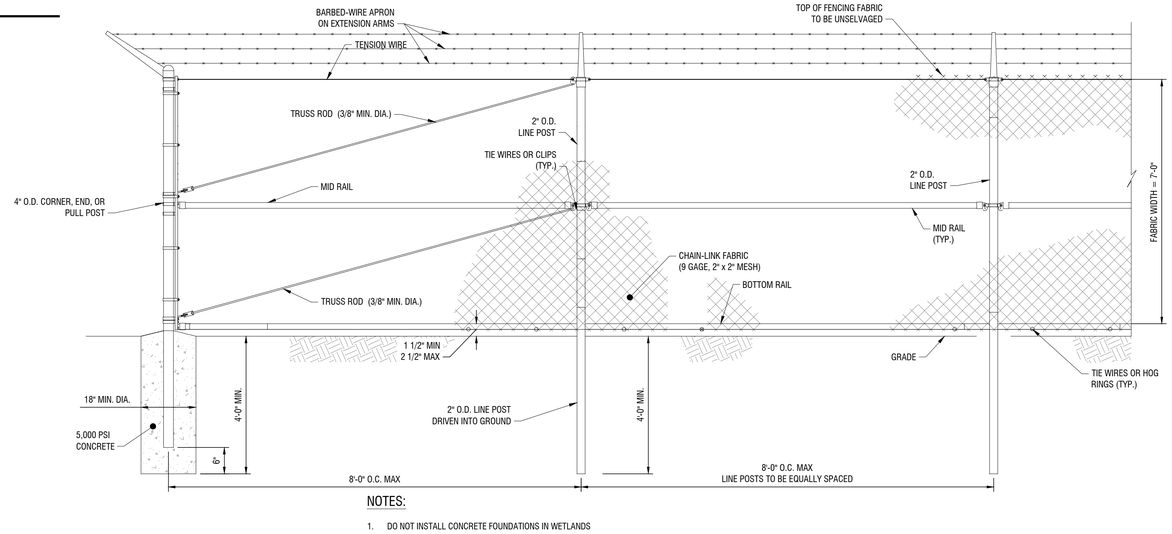


NOTES:

1. SEE PLANS FOR GATE WIDTH.
2. DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

3 / C502 7' TALL DOUBLE SWING GATE

N.T.S.



NOTES:

1. DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

4 / C502 7' HIGH BARBED WIRE HIGH SECURITY FENCE

N.T.S.

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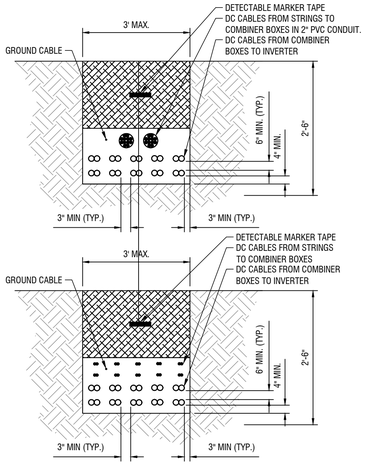
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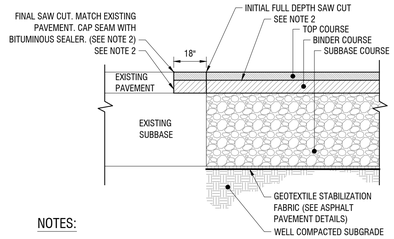


TRENCH NOTES:

1. ADDITIONAL MISCELLANEOUS CABLES FROM FIELD DEVICES SUCH AS TEMPERATURE TRANSMITTERS, METEOROLOGICAL STATIONS, REFERENCE MODULES, SIGNAL, GROUND SHALL UTILIZE THE UNDERGROUND TRENCH SYSTEM WHERE IT IS APPLICABLE. CABLES SHALL BE INSTALLED AT LAYERS AS INDICATED.
2. THE TRENCH DETAIL BELOW SHOWS A SAMPLE NUMBER OF DC FEEDER CABLES FROM DC COMBINER BOXES. SPECIFIC CABLE QUANTITIES ARE SHOWN IN RESPECTIVE DETAIL SECTION.
3. TRENCHING MUST COMPLY WITH THE LATEST STANDARDS.
4. CLEAN FILL REQUIREMENTS: TRENCHING BEDDING SHALL BE SAND OR ROCK-FEE FILL SCREENED TO A MAXIMUM 1/4" SIZE AS A CUSHING (FREE OF SHARP EDGE MATERIAL, ROTTING WOOD OR ORGANIC MATTER THAT MIGHT ATTRACT INSECTS).
   THE CABLES SHALL BE COVERED WITH "CLEAN FILL" SAND OR SOFT EARTH, FREE FROM STONES, ROCKS OR OTHER MATERIAL THAT MAY DAMAGE THE CABLE DURING BACKFILL.
5. THE CABLES CROSS-SECTION AND THE NUMBER SHOWN IS ONLY AN EXAMPLE. ALL CABLES SHALL BE IN ACCORDANCE WITH STANDARDS AND SHALL BE SIZED ACCORDING TO USE AND TYPE OF INSTALLATION.

UNTREATED NATIVE SOIL
CLEAN, DRY BACKFILL CUSHION
EARTH UNDISTURBED

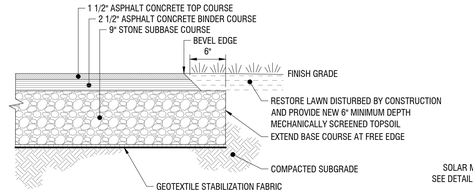
4 C503 TYPICAL TRENCH DETAILS
N.T.S.



NOTES:

1. VERTICALLY SAW CUT ALL ASPHALT FULL DEPTH.
2. BLOW CLEAN AND APPLY TACK COAT 0.050 GAL/SY AT ALL ASPHALT TO ASPHALT SURFACES.
3. REFER TO STANDARD DUTY PAVEMENT SECTION DETAIL FOR COURSE THICKNESS.

1 C503 STANDARD DUTY PAVEMENT JOINT
N.T.S.



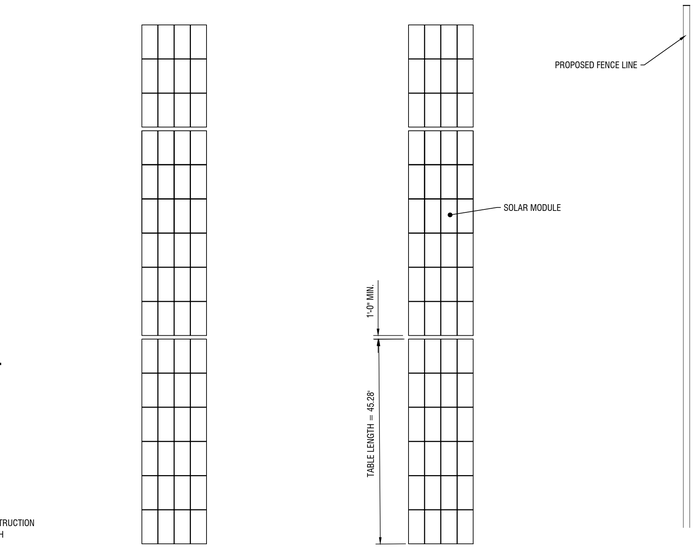
NOTES:

1. PROVIDE ADDITIONAL SUBBASE MATERIAL WHERE FILL IS REQUIRED TO OBTAIN PROPER SUBGRADE ELEVATION, OR TO REPLACE UNSUITABLE SUBGRADE MATERIAL.

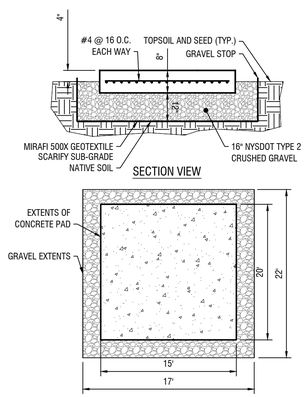
2 C503 STANDARD DUTY ASPHALT PAVEMENT SECTION
N.T.S.

NOTES:

1. CONDUCTORS TO BE 1000V RATED FOR DIRECT BURIAL. MEDIUM VOLTAGE CONDUCTORS FROM PS1 TO BE RATED FOR CLASS 35KV, AND MEDIUM VOLTAGE CONDUCTORS FROM PS2 TO BE RATED FOR CLASS 15KV.
2. CONDUCTORS OF THE SAME CIRCUIT TO BE NEXT TO EACH OTHER; COMBINER CIRCUITS TO BE SPACED 4.5" FROM EACH OTHER UNLESS POSTED OTHERWISE (HORIZONTAL/VERTICAL DIRECTIONS).
3. COMMUNICATIONS TO BE BURIED 1' AWAY FROM ALL POWER CONDUCTORS. USE DIRECT BURY RATED FIBER CABLE.
4. 3" OR 4" PVC SCH80 JUMP-CONDUIT SHALL BE UTILIZED FOR ROW-TO-ROW STRING CIRCUITS WIRING.
5. POWER SUPPLY CABLES TO ARC FAULT CIRCUIT INTERRUPTION CIRCUITS SHALL BE LOCATED AT A MINIMUM 1' FROM DC CIRCUITS.
6. CONTRACTOR SHALL SIZE THE ROW-TO-ROW JUMPER CONDUIT FOR THE CONDUCTORS USED, WITH PVC SCHEDULE 80. A TOTAL OF 60 #10 HOMERUN CABLES CAN FIT INTO A STANDARD 4" PVC CONDUIT. CONTACT THE ENGINEER IF ADDITIONAL GUIDANCE IS REQUIRED.



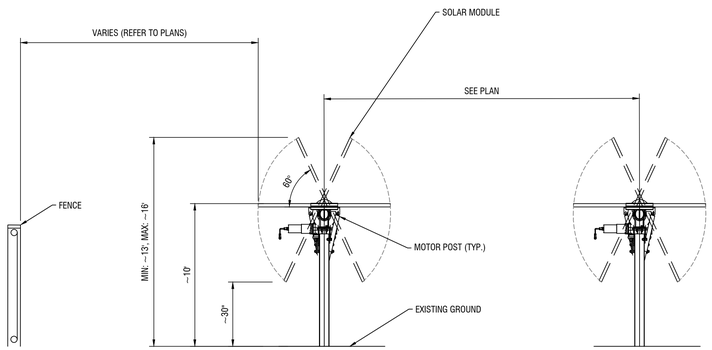
3 C503 TYPICAL SITE LAYOUT
N.T.S.



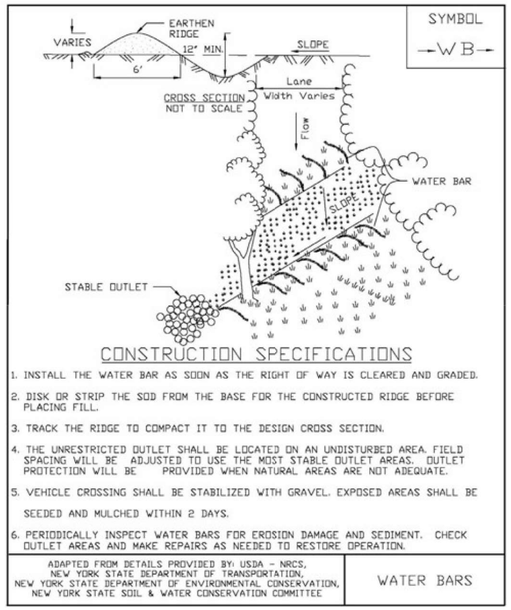
EQUIPMENT PAD NOTES:

1. ALL ELECTRICAL EQUIPMENT IS TO BE SITUATED ON A CONCRETE PAD AS SHOWN ON THE SITE PLANS.
2. CONCRETE STRENGTH: CLASS B CONCRETE. CONTRACTOR SHALL ALLOW 3 DAYS CURING TIME PRIOR TO INSTALLATION OF EQUIPMENT ON CONCRETE PAD.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, Fy=65,000 PSI, AND SHALL BE HOT-DIPPED GALVANIZED OR EPOXY COATED AFTER FABRICATION TO PRODUCE A CLASS 2 COATING EQUAL TO THAT SPECIFIED IN ASTM A641, TABLE 1.
4. ANCHOR BOLTS SHALL BE DRILLED AND SET IN FIELD AFTER INSTALLATION ON FOOTING AS PER MANUFACTURER'S SPECIFICATIONS.
5. LOCATION OF ALL ELECTRICAL EQUIPMENT AND CONCRETE PADS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
6. COMPACTED STONE SHALL BE NYSDOT TYPE 2 CRUSHED GRAVEL OR APPROVED EQUAL BY THE ENGINEER OF RECORD.
7. ANCHOR BOLTS SHALL BE ¾" DIA. HILTI HSE ADHESIVE ANCHOR RODS WITH 4-1/2" EMBEDMENT DEPTH OR APPROVED EQUAL.
8. REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
9. VERIFY ALL DIMENSIONS WITH THOSE ON EQUIPMENT SKID SHOP DRAWINGS AND ADJUST ACCORDINGLY. LOCATE CHASES AND CONDUIT STUB-UPS PER EQUIPMENT SKID SHOP DRAWINGS.

5 C503 CONCRETE PAD
N.T.S.



6 C503 TYPICAL SOLAR ARRAY SIDE PROFILE DETAIL
N.T.S.



New York State Standards and Specifications For Erosion and Sediment Control — Page 3.53 — November 2016

7 C503 WATER BARS
N.T.S.

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CONSTRUCTION DETAILS

DRAWING NUMBER:

C503

VERSION 21.1
5/10/2022 3:46:36 PM

MATCHLINE SEE SHEET C602



1 C601 LANDSCAPE PLAN
SCALE: 1" = 60'

N

0' 60' 120' 180'

LANDSCAPING NOTE:

NO PROPOSED ADDITIONAL LANDSCAPING. NATURAL SCREENING PROVIDED BY EXISTING FOREST.

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5/10/2022 3:44:29 PM

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PROJECT NUMBER: 2221884
DRAWN BY: CC
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ISSUED FOR: REVIEW
DATE: 5/10/2022
DRAWING NAME:

LANDSCAPE PLAN

DRAWING NUMBER:

C601



1 C602 LANDSCAPE PLAN
SCALE: 1" = 60'

N

0' 60' 120' 180'

LANDSCAPING NOTE:

NO PROPOSED ADDITIONAL LANDSCAPING. NATURAL SCREENING PROVIDED BY EXISTING FOREST.

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DRAWING NAME:

LANDSCAPE PLAN

DRAWING NUMBER:

C602

MATCHLINE SEE SHEET C702

REMOVE AND DISPOSE 7' CHAIN LINK FENCE

INSTALL AND MAINTAIN NEW TEMPORARY SILT FENCE

REMOVE AND DISPOSE 7' CHAIN LINK FENCE

REMOVE AND DISPOSE OF 20' WIDE SECURITY GATE (TYP.)

REMOVE AND RETURN ELECTRICAL EQUIPMENT TO POWER AUTHORITY. REMOVE AND DISPOSE OF EQUIPMENT SKIDS. (TYP.)

DISCONNECT, REMOVE, AND DISPOSE OF SOLAR TABLE AND FOUNDATION AS DIRECTED BY OWNER (TYP.)

DISCONNECT, REMOVE, AND DISPOSE OF SOLAR TABLE AND FOUNDATION AS DIRECTED BY OWNER (TYP.)

REMOVE AND DISPOSE OF UNDERGROUND ELECTRICAL SERVICE (TYP.)

REMOVE AND DISPOSE 7' CHAIN LINK FENCE

REMOVE AND DISPOSE OF 20' WIDE SECURITY GATE (TYP.)

WOODEN GUARDRAIL ALONG ROAD

REMOVE AND DISPOSE OF OVERHEAD ELECTRICAL WIRING TO UTILITY POLE

DISCONNECT UNDERGROUND ELECTRIC CONNECTION

REMOVE AND RETURN ELECTRICAL EQUIPMENT TO POWER AUTHORITY. REMOVE AND DISPOSE OF EQUIPMENT SKIDS. (TYP.)

REMOVE AND DISPOSE OF 20' WIDE SITE ACCESS GATE (TYP.)

REMOVE AND DISPOSE OF UTILITY POLES (TYP.)

200.00' SETBACK (TYP.)

WATERCOURSE

ARGENWOOD BRIARCLIFF OWNER LLC
(Now or Formerly)
Tax Parcel No. 97.16-1-1

MICHAEL & NANCY MEZZACAPPA
(Now or Formerly)
Tax Parcel No. 97.16-1-7

SCARBOROUGH ROAD

1 C701 DECOMMISSIONING PLAN - PHASE I
SCALE: 1" = 60'

N

0' 60' 120' 180'

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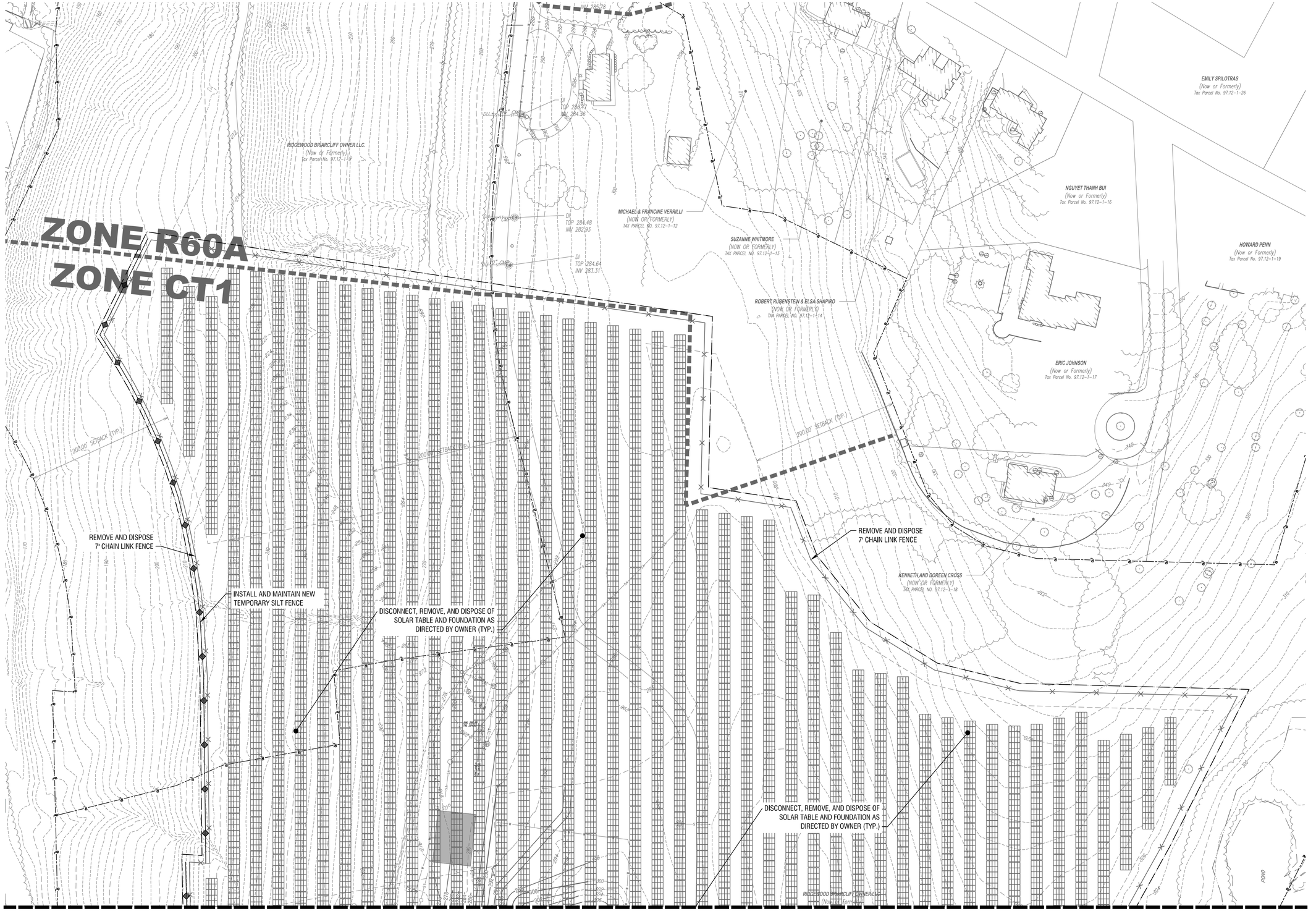
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DRAWING NAME:

DECOMMISSIONING PLAN - PHASE I

DRAWING NUMBER:

C701



1 C702 DECOMMISSIONING PLAN - PHASE I

SCALE: 1" = 60'

N

0' 60' 120' 180'

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DECOMMISSIONING PLAN - PHASE I

DRAWING NUMBER:

C702

MATCHLINE SEE SHEET C704

INSTALL AND MAINTAIN NEW TEMPORARY SILT FENCE

RESTORE AND RESEED ALL DISTURBED AREAS WITH NYSDEC #6 SEED MIXTURE

RESTORATION SEEDING LIMIT (TYP.)

200.00' SETBACK (TYP.)

RIDGEWOOD BRIARCLIFF OWNER LLC
(New or Formerly)
Tax Parcel No. 97.16-1-11

RESTORE AND RESEED ALL DISTURBED AREAS WITH NYSDEC #6 SEED MIXTURE

RESTORE AND RESEED ALL DISTURBED AREAS WITH NYSDEC #6 SEED MIXTURE

RESTORATION SEEDING LIMIT (TYP.)

WATERCOURSE

WOODEN GUARDRAIL ALONG ROAD

WOODEN GUARDRAIL ALONG ROAD

SCARBOROUGH ROAD

MICHAEL & NANCY MEZZACAPPA
(Now or Formerly)
Tax Parcel No. 97.16-1-7

1 C703 DECOMMISSIONING PLAN - PHASE II
SCALE: 1" = 60'

N

0' 60' 120' 180'

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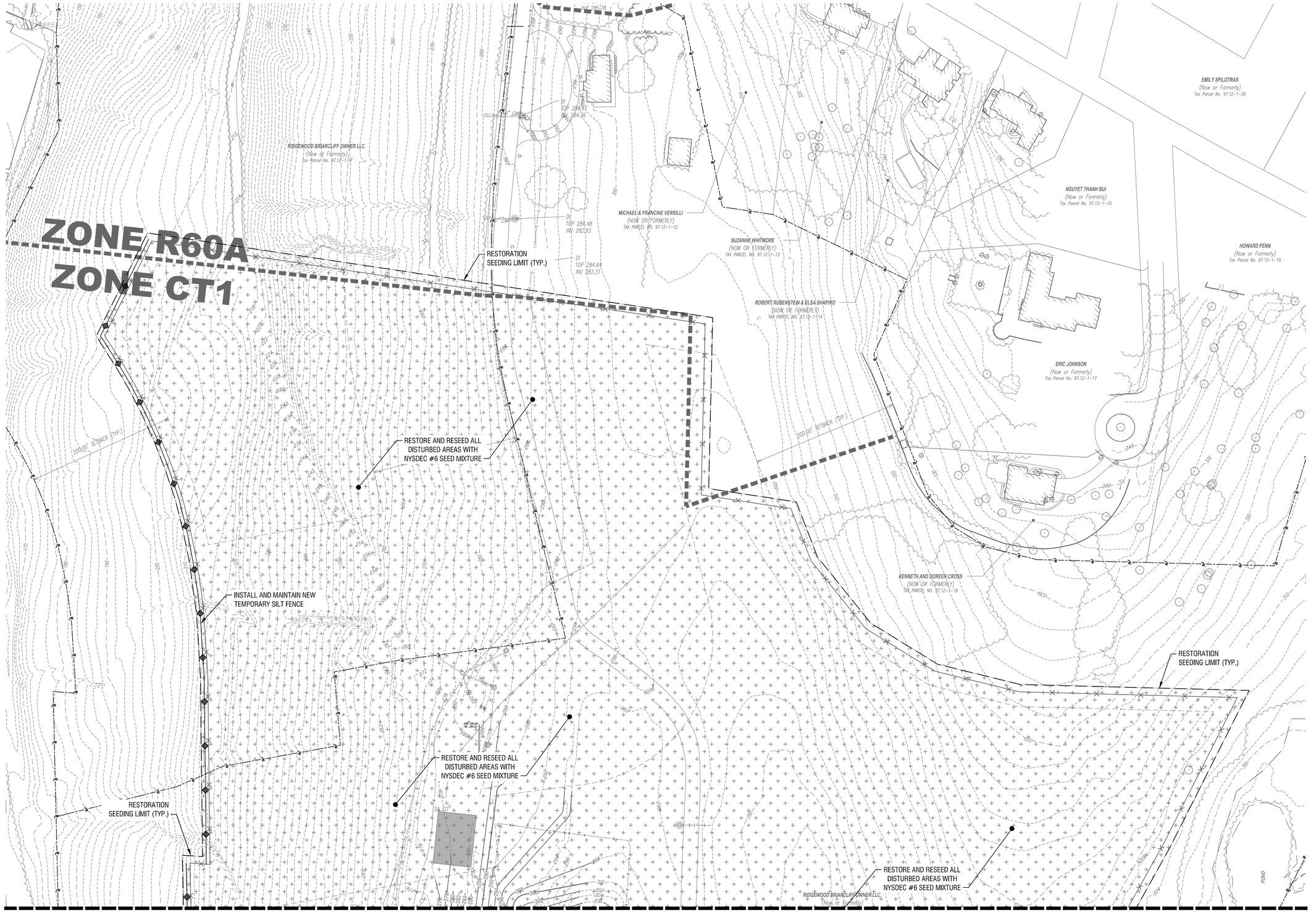
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DRAWING NAME:

DECOMMISSIONING PLAN - PHASE II

DRAWING NUMBER:

C703



1 C704 DECOMMISSIONING PLAN - PHASE II

SCALE: 1" = 60'

N

0' 60' 120' 180'

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DRAWING NAME:

DECOMMISSIONING PLAN - PHASE II

DRAWING NUMBER:

C704

Appendix D
O&M Plan

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Briarcliff Solar, LLC

OPERATIONS AND MAINTENANCE PLAN

PREPARED FOR
BRIARCLIFF SOLAR, LLC
79 Madison Ave., 8th Floor, New York, NY 10016

YSG SOLAR DEVELOPMENT COMPANY, LLC
79 Madison Ave., 8th Floor, New York, NY 10016

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INTRODUCTION

Solar PV Energy Systems require minimal Operations and Maintenance. The project developer and system owner, Briarcliff, LLC, affiliate of YSG Solar Development Company LLC, will be responsible for the Operations and Maintenance. All equipment must be maintained as per the manufacturers' recommendations. The premise is to be maintained and kept up to high standards and in compliance with all Village Requirements, Regulations, and Standards.

Site Description

The subject parcel (parcel ID 97.16-1-1), 345 Scarborough Road in the Village of Briarcliff Manor is located within the Village's Business (CT1) zoning district. The parcel encompasses approximately 78.24 acres and houses the former Philips Research Facility. The Research Facility consists of four main interconnected buildings designated as Buildings A, B, C, and D and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area. The property is accessed by a private drive known as Shadow Brook Lane. Asphalt paved parking is present to the north and south of the Research Facility. The remainder of the Site is either grass field or wooded. Water and power easements are present in the area occupied by Shadow Brook Lane and a sewer easement runs north/south. The balance of the Site is bordered by forest and residential areas. The proposed 49.33-acre development area, hereafter referred to as the "Project Area," is situated centrally on the Site.

Site Access

The Facility will be accessed via a private drive known as Shadow Brook Lane from the East side of the property where Scarborough Lane and Holbrook Road run north/south.

System Description

Solar Panels and Related Ground Equipment

As currently designed, the proposed Project will consist of 29,808 Heliene 144HC M10 Bifacial Modules rated at 540W; Single axis tracker racking in four high landscape orientation; switchgear, transformers, and electrical systems interconnected to the utility grid along Holbrook Road and Scarborough Road. The Project also includes the installation of access an NEC-compliant, seven-foot safety and security fencing system.

The Ground Mount Racking System consists of galvanized steel, aluminum, and

stainless-steel structures and fasteners for enhanced resistance to corrosion. The foundations will be machine driven galvanized steel column posts or screw-in piles.

The Electrical Equipment consists of heavy duty electrical disconnects, breaker panels, switches, transformers, and meters. Wiring Systems consist of copper and aluminum cable, junction boxes, and conduit.

Utility Power Lines will be a combination of overhead and underground cable systems with medium voltage switches and electrical components installed by the utility companies and private contractors per the utility requirements.

The fence is generally a seven-feet tall chain-link fencing around the project perimeter.

The landscaping and plantings around, between, and under the solar rows will be of natural native plant species to; low growing grasses will be planted between and under the solar rows enhancing the existing vegetation providing soil stabilization, and natural absorption of water.

Service Life

The Facility's panels and inverters have an anticipated service life of thirty-five (35) years. The Tier 1 high quality solar PV modules used have a minimum standard manufacturer's warranty to achieve at least 80% output at year 25 and are expected to last for 35 plus years losing less than 0.5% output per year.

The high-quality inverters used have a minimum standard manufacturer's warranty of 10 years with extended warranties available for 15 and 20 years. It is expected that the Inverters will be replaced at least one time during the Solar Energy System Operational Life period.

When the Solar PV Modules have reached a point below the effective output level, the Solar Energy System can be refitted with new solar PV modules and inverters on the existing infrastructure, extending the operational life of the Solar Energy System.

At the end of the Solar Energy System's operational life, the system shall be completely decommissioned and removed, and the site property restored.

Project Maintenance

Throughout operation of the Project, periodic inspections and maintenance will be performed as required. Required maintenance of the Project, however, will be minimal. Briarcliff Solar's designated Operations & Maintenance ("O&M") Service Provider, and/or its authorized subcontractors will visit the Site monthly to assess site conditions and perform

maintenance as needed. Signage and egress functionality will be inspected during this time and repaired, if necessary. Other anticipated management/maintenance activities for the Project are as follows:

Equipment Maintenance

Briarcliff Solar's designated O&M Service Provider and/or its authorized subcontractors will inspect and maintain electrical and PV equipment in accordance with the manufacturers' respective requirements to maintain proper operation and warranty status of the equipment. Briarcliff Solar's designated O&M Service Provider will also perform the following inspections: (a) the operation of all safety devices will be reviewed and corrected to maintain proper function; (b) full visual inspection of all equipment, subassemblies, wiring, connectors, etc.; (c) thermal scanning of electronic equipment, wiring terminations, connectors, etc.; (d) mechanical inspection, including torque verification of critical connections; (e) String Testing (IV curve test); and, (f) air filter elements.

Grass Management

Grass around and under the array will be mowed in accordance with the schedule provided in Table 1, below, and will be maintained at a height intended to mitigate the risk of fire. Grass will be re-planted in bare areas onsite to ensure that erosion control is maintained.

Panel Cleaning

Although panel cleaning is rarely necessary, in the event that the panels were to experience enough soiling to adversely affect production, the panels will be cleaned using water brought in by tanker truck(s) and soft bristle brooms. No chemicals will be used in connection with panel cleaning.

Snow Maintenance/Removal

Briarcliff Solar's designated O&M Service Provider and/or its authorized subcontractors will clear snow from the access roads to all the electrical equipment pads onsite. Snow will be plowed or removed in a manner to maintain emergency turnarounds. Briarcliff Solar does not intend to remove snow from the panels, as they will be positioned at an angle which will allow any accumulating snow to sheet off.

Long-Term Stormwater Maintenance Plan

Management of the stormwater management devices is laid out in the Project Stormwater Pollution Prevention Plan. The O&M team will provide maintenance in

accordance with the approved stormwater maintenance plan produced by the Project's engineer of record.

Table 1, below, summarizes the anticipated scheduled maintenance activities for the Project.

Table 1. Scheduled Maintenance Activity

Task	Frequency
On-Site Ground Inspection	Monthly
Visual Array & Equipment Inspection	1x per year or per equipment manufacturer requirements
Mechanical & Electrical Inspections	1x per year or per equipment manufacturer requirements
Panel Cleaning	As Needed
Mowing and Trimming	2-3x per year or more as required to maintain a safe site
Snow Removal	As Needed
Perimeter Fence Inspection	1x per year
Stormwater Management System Inspection	1x per year or per engineer's stormwater management plan

Appendix E
Decommissioning Plan

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Decommissioning Plan
Briarcliff Solar Development
345 Scarborough Rd
Briarcliff Manor, New York

Prepared for:
Briarcliff Solar, LLC
79 Madison Ave, 8th Floor
New York, NY 10016

Prepared by:
YSG Solar Development Company, LLC
79 Madison Ave, 8th Floor
New York, NY 10016

May 16, 2022

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This document entitled Decommissioning Plan – Briarcliff Solar, was prepared by YSG Solar Development Company ("YSG") for the use of Briarcliff Solar, LLC (the "Client"), and the applicable regulatory agencies. Any reliance on this document by any other third party is strictly prohibited. The material in this document reflects YSG's professional judgment considering the scope, schedule and other limitations stated in the document and in the contract between YSG and the Client. The opinions in this document are based on conditions and information existing at the time this document was published and do not consider any subsequent changes.

(Signature)

James Taravella, PE
YSG Solar Development Company, LLC
Project Developer

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INTRODUCTION

Solar photovoltaic energy systems require minimal Operations and Maintenance. The project developer and system owner, Briarcliff Solar LLC, affiliate of YSG Solar Development Company LLC, will be responsible for the Operations and Maintenance. All equipment must be maintained as per the manufacturers' recommendations. The premise is to be maintained and kept up to high standards and in compliance with all Village Requirements, Regulations, and Standards.

This Decommissioning Plan (Plan) provides a description of the decommissioning and restoration phase of the Project. Start-of-construction is planned for the fourth quarter of 2022, with a projected Commercial Operation Date in the third quarter of 2023. The Project will consist of the installation of the perimeter fencing; solar arrays and associated trackers, foundations, and steel piles; transformers/inverter; and access road.

This Plan is applicable to the decommissioning/deconstruction and restoration phases of the Project. A summary of the components to be removed and decommissioning costs is provided below.

Site Description

The subject parcel (parcel ID 97.16-1-1), 345 Scarborough Road in the Village of Briarcliff Manor is located within the Village's Business (CT1) zoning district. The parcel encompasses approximately 78.24 acres and houses the former Philips Research Facility. The Research Facility consists of four main interconnected buildings designated as Buildings A, B, C, and D and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area. Asphalt paved parking is present to the north and south of the Research Facility. The remainder of the Site is either grass field or wooded. Water and power easements are present in the area occupied by the Site Access driveway and a sewer easement runs north/south. The balance of the Site is bordered by forest and residential areas. The proposed 49.33-acre development area, hereafter referred to as the "Project Area," is situated centrally on the Site.

Site Access

The property is accessed by a private drive known that connects the facility to Scarborough Rd to the east and Holbrook Rd to the north..

SOLAR FARM COMPONENTS

The maximum nameplate generating capacity of the Project will be up to 15.0 megawatts,

direct current MW_{DC} and 10.0 megawatts, alternating current MW_{AC}. Major components of the Project include solar modules, racking systems, and inverters/transformers. Briarcliff Solar is currently considering bifacial poly-crystalline solar panels.

The main components of the Project include:

- Solar panels and tracking system
- Foundations and steel piles
- Inverters/transformer
- Electrical cabling and conduits
- Perimeter fencing
- Project utility poles

Solar Panels and Related Ground Equipment

As currently designed, the proposed Project will consist of 28,000 Heliene 144HC M10 Bifacial Modules rated at 540W (See Appendix B – Module Datasheet); single axis tracking racking in four high landscape orientation; switchgear, transformers, and electrical systems interconnected to the utility grid along Scarborough Road and Holbrook Road. The Project also includes the installation an NEC-compliant, seven-foot safety and security fencing system.

The Ground Mount Racking System consists of galvanized steel, aluminum, and stainless-steel structures and fasteners for enhanced resistance to corrosion. The foundations will be machine driven galvanized steel column posts or screw-in piles.

The Electrical Equipment consists of heavy duty electrical disconnects, breaker panels, switches, transformers, and meters. Wiring Systems consist of copper and aluminum cable, junction boxes, and conduit.

Utility Power Lines will be a combination of overhead and underground cable systems with medium voltage switches and electrical components installed by the utility companies and private contractors per the utility requirements.

Fencing is generally 7-feet tall chain-link around the project perimeter.

The landscaping and plantings around, between, and under the solar rows will be of natural native plant species to; low growing grasses will be planted between and under the solar rows enhancing the existing vegetation providing soil stabilization, and natural absorption of water.

Service Life

The Facility's panels and inverters have an anticipated service life of thirty-five (35) years. The Tier 1 high quality solar PV modules used have a minimum standard manufacturer's warranty to achieve at least 80% output at year 25 and are expected to last for 35 plus years losing less than 0.5% output per year.

The high-quality inverters used have a minimum standard manufacturer's warranty of 10 years with extended warranties available for 15 and 20 years. It is expected that the Inverters will be replaced at least one time during the Solar Energy System Operational Life period.

When the Solar PV Modules have reached a point below the effective output level, the Solar Energy System can be refitted with new solar PV modules and inverters on the existing infrastructure, extending the operational life of the Solar Energy System.

At the end of the Solar Energy System's operational life, the system shall be completely decommissioned and removed, and the site property restored.

TRIGGERING EVENTS AND EXPECTED LIFETIME OF PROJECT

Project decommissioning may be triggered by an event such as abandonment or when the Project reaches the end of its operational life. The project will be considered to be a discontinued use after twelve (12) months without energy production, unless a plan is developed and submitted to the Village outlining the steps and schedule for returning the Project to service. Project facilities will be removed from the site in accordance with a timeframe agreed upon by Briarcliff Solar, LLC and the Village of Briarcliff Manor.

If properly maintained, the expected lifetime of a large-scale solar facility is approximately 35 years with an opportunity for a project lifetime of 50 years or more with equipment replacement and repowering. Depending on market conditions and project viability, the solar arrays may be retrofitted with updated components (e.g., panels, frame, tracking system, etc.) to extend the life of the project. In the event that the modules are not retrofitted, or at the end of the Project's useful life, the panels and associated components will be decommissioned and removed from the Project site.

The value of the individual components of the solar facility will vary with time. In general, the highest component value would be expected at the time of construction with declining value over the life of the Project. Over most of the life of the Project, components such as the solar panels could be sold in the wholesale market for reuse or refurbishment. As efficiency and power

production of the panels decrease due to aging and/or weathering, the resale value will decline accordingly. Secondary markets for used solar components include other utility scale solar facilities with similar designs that may require replacement equipment due to damage or normal wear over time; or other buyers (e.g., developers, consumers) that are willing to accept a slightly lower power output in return for a significantly lower price point when compared to new equipment.

Components of the solar facility that have resale value may be sold in the wholesale market. Components with no wholesale value will be salvaged and sold as scrap for recycling or disposed of at an approved offsite licensed solid waste disposal facility (landfill). Decommissioning activities will include removal of the arrays and associated components.

DECOMMISSIONING SEQUENCE

Decommissioning activities will begin within twelve months of the Project ceasing operation and are anticipated to be completed in six to twelve months. Briarcliff Solar will be the responsible party. Monitoring and site restoration may extend beyond this period to ensure successful revegetation and rehabilitation. The anticipated sequence of decommissioning and removal is described below; however, overlap of activities is expected.

Reinforce access roads, if needed, and prepare site for component removal, install erosion control fencing and other best management practices (BMPs) to protect sensitive resources and control erosion during decommissioning activities. The removal of equipment will occur as follows:

- De-energize solar arrays
- Dismantle panels and racking
- Remove frame and internal components
- Remove portions of structural foundations and backfill
- Remove inverters/transformers and foundations
- Remove electrical cables and conduits
- Remove access roads and grade site (if required)
- De-compact subsoils as needed, restore and revegetate disturbed land to pre-construction conditions to the extent practicable

PROJECT COMPONENTS AND DECOMMISSIONING ACTIVITIES

The solar facility components and decommissioning activities necessary to restore the Project area, as near as practicable, to pre-construction conditions are described within this section.

Foundations, steel piles, and electric cabling and conduit installed below the soil surface will be removed. Access roads may be left in place if requested and/or agreed to by the landowner; however, for purposes of this assessment, all access roads are assumed to be removed. Public roads damaged or modified during the decommissioning and reclamation process will be repaired upon completion of the decommissioning phase.

Estimated quantities of materials to be removed and salvaged or disposed of are included in this section. Many of the materials described have salvage value; although, there are some components that will likely have none at the time of decommissioning. Removed materials will be salvaged or recycled to the extent possible. Other waste materials will be disposed of in accordance with state and federal law in an approved licensed solid waste facility. Solar panels may have value in a resale market, depending on their condition at the end of the Project life. If the Project is decommissioned prior to the anticipated 25 to 30-year timeframe, the resale value of components may be substantially higher than at the end of the projected Project.

Table 1 presents a summary of the primary components of the Project included in this decommissioning plan.

Table 1 Primary Components of Solar Farm to be Decommissioned

Component	Quantity	Unit of Measure
Solar Modules (approximate)	28,000	Each
Tracking System Racking	1,167	Tracker
String Inverters	100	Each
Electrical Cables and Conduits	10,000	Linear Foot (estimated)
Perimeter Fencing	7,640	Linear Foot
Transformers	2	Each

SOLAR MODULES

At the time of decommissioning, module components in working condition may be refurbished and sold in a secondary market yielding greater revenue than selling as salvage material.

TRACKING SYSTEM AND SUPPORT

The solar modules will be mounted on a single axis tracking racking system. The racking system is mainly comprised of high-strength galvanized steel and anodized aluminum; steel piles that support the system are assumed to be comprised of galvanized steel.

The solar arrays will be deactivated from the surrounding electrical system and made safe for disassembly. Electronic components, and internal electrical wiring will be removed and salvaged. The steel piles will be completely removed from the ground.

The supports, racking system, and posts contain salvageable materials which can be sold to provide revenue to offset the decommissioning costs.

INVERTERS

The combined inverters generally sit on small concrete footings or piers on steel piles within the array. The inverters will be deactivated, disassembled and removed. For purposes of this report, it is assumed that piers with steel piles will be utilized. Depending on condition, the equipment may be sold for refurbishment and re-use. If not re-used, they will be salvaged or disposed of at an approved solid waste management facility.

ELECTRICAL CABLING AND CONDUITS

The Project's underground electrical collection system will be placed at a depth of approximately two feet (24 inches) below the ground surface. All cabling will be removed and salvaged. Recovery cost has been conservatively based on aluminum wiring; however, the salvage value of copper, if used, would be far greater.

PERIMETER FENCING

The Project will include a security fence around the perimeter of the site and exclusionary areas. All fencing will be removed and recycled.

LAND USE AND ENVIRONMENT

RESTORATION AND REVEGETATION

Project sites that have been excavated and backfilled will be graded as previously described. Soils compacted during de-construction activities will be de-compacted, as necessary, to restore the land to pre-construction land use. If present, drain tiles that have been damaged will be restored to pre-construction condition. Topsoil will be placed on disturbed areas and seeded

with appropriate vegetation or in coordination with landowners within agricultural land. Work will be completed to comply with the conditions agreed upon by Briarcliff Solar and the Village of Briarcliff Manor at the time of decommissioning.

SURFACE WATER DRAINAGE AND CONTROL

The Project facilities are being sited to avoid wetlands, waterways, and drainage ditches to the extent practicable. The existing Project site conditions and proposed BMPs to protect surface water features will be detailed in a Project Stormwater Pollution Prevention Plan (SWPPP) for the Project prior to the commencement of construction activities.

Surface water conditions at the Project site will be reassessed prior to the decommissioning phase. Briarcliff Solar will obtain the required water quality permits from the New York State Department of Environmental Conservation and the U.S. Army Corp of Engineers (USACE), if needed, before decommissioning of the Project. Construction stormwater permits will also be obtained and a SWPPP prepared describing the protection needed to reflect conditions present at the time of decommissioning. BMPs may include construction entrances, temporary seeding, permanent seeding, mulching (in non-agricultural areas), erosion control matting, silt fence, filter berms, and filter socks.

MAJOR EQUIPMENT REQUIRED FOR DECOMMISSIONING

Equipment required for the decommissioning activities is similar to what is needed to construct the solar facility and may include, but is not limited to: small cranes, track mounted excavators, backhoes, track bulldozers, off-road end-dump trucks, front-end loaders, deep rippers, water trucks, disc plows and tractors to restore subgrade conditions, and ancillary equipment. Over-the-road dump trucks will be required to transport material removed from the site to disposal facilities.

DECOMMISSIONING COST ESTIMATE SUMMARY

The current cost to decommission a 10.0 MW-AC Solar Facility has been estimated on behalf of Briarcliff Solar by their consultants and construction contractors, using guidance from NYSERDA (refer to the attached Decommissioning Estimate). It is important to acknowledge that decommissioning of solar arrays has not been undertaken to any significant extent in New York State (or other States), and therefore, actual data and cost estimating models are not available.

Moreover, there is great uncertainty in many factors that will come into play at the time of future decommissioning, such as the regulatory climate, changes in technology, repowering opportunities etc. In addition, the salvage values of valuable recyclable materials (aluminum, steel, copper, etc.) have not been factored into the decommissioning cost estimate, and the scrap value will be determined on current market rates at the time of salvage.

Expenses associated with decommissioning the Project will be dependent on labor costs at the time of decommissioning. For the purposes of this report approximate 2021-2022 average market values were used to estimate labor expenses. Fluctuation and inflation of the labor costs were not factored into the estimates.

DECOMMISSIONING ESTIMATE

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YSG SOLAR

PROJECT					
PROJECT NO.		SHEET	1	OF	4
SUBJECT	Decommissioning Estimate				
CALC. BY		DATE			
CKD. BY		DATE			

This Decommissioning Estimate has been prepared byYSG Solar in an attempt to predict the cost associated with removal of the proposed solar facility. The primary cost of decommissioning is the labor to dismantle and load as the cost of trucking and equipment. All material will be removed from the site, including any concrete foundations, which will be broken up at the site and hauled to the nearest transfer station.

The following values were used in this Decommissioning Estimate

SYSTEM SPECIFICATIONS

Number of Modules	28,000	ea
Number of Racks	1,167	ea
Number of Inverters	100	ea
Number of Transformers	2	ea
Number of Switchboards	2	ea
Electrical Wiring Length	10,000	ft
Number of Ballasts	0	ea
Length of Perimeter Fence	7,640	ft
Number of Power Poles	2	ea
Access Rd Length	0	ft
Access Rd Material Volume	0	ft
Access Rd Material Volume	0	CY
Total Disturbed Area	49.33	Ac
Total Disturbed Area	2,148,815	SF
Total Fence Weight	--	lbs
Total Racking Weight	--	lbs
Total Foundation Screw Weight	--	lbs

EQUIPMENT & MATERIAL REMOVAL RATES

Module Removal Rate	1	min/module
Rack Wiring Rem. Rate	0.5	min/module
Racking Dismantling Rate	15	min/rack
Inverter Removal Rate	0.5	units/hr
Transformer Removal Rate	2	units/hr
Switchboard Removal Rate	1	units/hr
Rack Loading Rate	10	min/rack
Elect. Wiring Removal Rate	3	min/LF
Ballast Rem. Rate	200	ballasts/day
Fence Removal Rate	0.5	min/LF
Skid Removal	1	Days
Rough Grading	1	Days
Fine Grading	1	Days
Total Truckloads Required	30	ea
Round-Trip Dist. To Trans. Sta.	20	mile
Round-Trip Time to Trans. Sta.	0.75	hr

LABOR AND EQUIPMENT COSTS

Labor Rate	$	30.00	$/hr
Bobcat Cost	$	100.00	$/hr
Front End Loader Cost	$	750.00	$/Day
Excavator Cost	$	750.00	$/Day
Trucking Cost	$	130.00	$/hr
Backhoe Cost	$	245.00	$/hr
Power Pole Removal Cost	$	1,500.00	$/pole
Grader Cost	$	1,500.00	$/Day
Gravel Export Cost	$	8.00	$/CY
Loam Import Cost	$	20.00	$/CY
Seeding Cost	$	0.08	$/SF
Fuel Cost	$	0.56	$/mile
Tree Removal Labor Rate	$	100.00	$/Tree
Tree Removal Equipment Cost	$	120.00	$/Tree

Labor, Material, and Equipment Costs

1. REMOVE MODULES

The solar modules are fastened to racking with clamps. They slide in a track. A laborer needs on unclamp the module and reach over and slide the module out of the track.

$$Module\ Removal\ Cost = \frac{Number\ of\ Modules\ x\ Module\ Removal\ Rate\ x\ Labor\ Rate}{60\ ^{min}/_{hr}}$$

Total = $ 14,000.00

2. REMOVE RACK WIRING

The modules are plugged together in the same manner as most electronics. The string wires are in a tray. A laborer only needs to unplug the mdoule, reach into the array and remove the strands of wire.

$$Cost = \frac{Number\ of\ Modules\ x\ Rack\ Wiring\ Rem.\ Rate\ x\ Labor\ Rate}{60\ ^{min}/_{hr}}$$

Total = $ 7,000.00

3. DISMANTLE RACKS

The racking is supported by concrete block ballasts. The racking will be disconnected from the foundation and removed seperately.

$$Cost = \frac{Number\ of\ Racks\ x\ Rack\ Dismantling\ Rate\ x\ Labor\ Rate}{60\ ^{min}/_{hr}}$$

Total = $ 8,750.00

4. REMOVE AND LOAD ELECTRICAL EQUIPMENT

Inverters, transformers, and switchboards are considered electrical equipment.

$$Labor\ Hours = \left\lfloor \frac{Number\ of\ Inverters}{Inverter\ Removal\ Rate} + \frac{Number\ of\ Transformers}{Transformer\ Removal\ Rate} + \frac{Number\ of\ Switchboards}{Switchboard\ Removal\ Rate} \right\rfloor$$

Labor Hours = 203

$$Equipment\ Rental\ Day(s) = \frac{Labor\ Hours}{8^{hr}/_{day}}$$ *(Note: This value rounded up to full day(s)*

Equipment Rental Day(s) = 26

$$Cost = Labor\ Hours\ x\ Labor\ Rate + Equipment\ Rental\ Day(s)\ x\ Front\ End\ Loader$$

Total = $ 25,590.00

5. LOAD RACKS

Once the racks have been dismantled, they will be loaded onto trucks for removal from the site.

$$Labor\ Hours = Number\ of\ Racks\ x\ Rack\ Loading\ Rate$$

Labor Hours = 195

$$Equipment\ Rental\ Day(s) = \frac{Labor\ Hours}{8^{hr}/_{day}}$$

(Note: This value rounded up to full day(s)

Equipment Rental Day(s) = 25

$$Cost = Labor\ Hours\ x\ Labor\ Rate + Equipment\ Rental\ Day(s)\ x\ Front\ End\ Loader$$

Total = $ 24,600.00

Labor, Material, and Equipment Costs

6. **REMOVE LOW VOLTAGE ELECTRICAL WIRING**

Electrical wiring will be removed from all underground conduits

$$Cost = \frac{Electrical\ Wiring\ Length\ x\ Elect.Wiring\ Removal\ Rate}{60\,^{min}/_{hr}}\ (labor\ cost + Backhoe\ Cost)$$

Total = $ 137,500.00

7. **REMOVE CONCRETE BALLASTS**

Concrete ballasts will be lifted from their position and loaded onto a truck to be removed from the site.

$$Cost = \frac{Number\ of\ Ballasts}{Ballast\ Removal\ Rate}\left(\left(Labor\ Rate\ x\ 8\,^{hr}/_{day}\right) + Excavator\ Cost\right)$$

Total = $ -

8. **REMOVE FENCING**

Fencing posts, fabric, and foundations will be loaded onto a truck and removed from the site. Trucking costs included in this line item are for the removal process. Trucking to a recycling facility are included in item #12.

$$Cost = \frac{Length\ of\ Fencing\ x\ Fence\ Removal\ Rate}{60\,^{min}/_{hr}}(Labor\ Rate + Bobcat\ Cost)$$

Total = $ 8,276.67

9. **REMOVE MEDIUM VOLTAGE ELECTRICAL WIRING**

Power poles will be removed and shipped off site.

$$Cost = Number\ of\ Poles\ x\ Power\ Pole\ Removal\ Cost$$

Total = $ 3,000.00

10. **GRAVEL ROAD RECLAMATION**

Reclamation of the gravel access road and flow spreaders will entail removing the gravel material and exporting it off site. The area will then be backfilled with loam and graded.

$$Cost = (Rough\ Grading + Fine\ Grading)Grader\ Cost + Access\ Rd.Volume(Gravel\ export + Loam\ Import)$$

Total = $ 3,000.00

11. **SEED DISTURBED AREAS**

Seeding cost includes and materials for resseding all disturbed areas including the reclaimed gravel road area, former electrical areas, and areas disturbed by racking foundation removal.

$$Cost = Disturbed\ Area\ x\ Seeding\ Cost$$

Total = $ 171,905.18

12 **TRUCK TO TRANSFER STATION**

All material will be trucked to the nearest Transfer station that accepts construction material. The nearest transfer station is Union Transfer located at 1700 Union Rd, West Seneca, NY 14224

$$Trucking\ Cost = Truckloads\ (Roundtrip\ Distance\ x\ Fuel\ Cost + Roundtrip\ Time\ x\ Trucking\ \text{Cost})$$

Total = $ 3,261.00

PROJECT
PROJECT NO. SHEET 4 OF 4
SUBJECT Decommissioning Estimate
CALC. BY DATE
CKD. BY DATE

Summary of Decommissioning Costs

The costs below are the current estimated costs to decommission a 10.0 MWac Solar Facility, based on guidance from NYSERDA and estimates from the New York solar market. The salvage values of valuable recyclable materials (aluminum, steel, copper, ect) are not factored into the below costs. The scrap value will be determined on current market rates at the time of slavage.

LINE ITEM	TASK		COST
1	Module Removal	$	14,000.00
2	Rack Wiring Removal	$	7,000.00
3	Rack Dismantling	$	8,750.00
4	Electrical Equipment Loading and Removal	$	25,590.00
5	Load Racks	$	24,600.00
6	Electrical Wiring Removal	$	137,500.00
7	Concrete Ballast Removal	$	-
8	Fence Removal	$	8,276.67
9	Power Pole Removal	$	3,000.00
10	Gravel Road Reclamation*	$	3,000.00
11	Seed Disturbed Areas	$	171,905.18
12	Trucking to Transfer Station	$	3,261.00
	Subtotal =	$	406,882.85
	8% Inspection & Permitting Contingency =	$	32,550.63
	2% Legal Contingency =	$	8,137.66
	Total =	$	447,571.14
	Rounded Total =	**$**	**448,000.00**

* Refer to 'Summary of Decommissioning Fund' for contingency.

Summary of Decommissioning Fund

A decommissioning fund to guarantee that monies are available to perform the facility decommissioning will be created. The funds will be established as a bond, and will remain available to the Town to perform the decommissioning if needed. At the start of construction a bond will be established in the total amount of the project's 30-year maturity with a 2.0% inflation rate. The landowner may choose to keep the trees or road following the decommissioning of the site with the written approval from the town.

Inflation Rate = 2.0%

YEAR	BOND VALUE		YEAR	BOND VALUE	
1	$	448,000	16	$	602,949
2	$	456,960	17	$	615,008
3	$	466,099	18	$	627,308
4	$	475,421	19	$	639,854
5	$	484,930	20	$	652,651
6	$	494,628	21	$	665,704
7	$	504,521	22	$	679,019
8	$	514,611	23	$	692,599
9	$	524,903	24	$	706,451
10	$	535,401	25	$	720,580
11	$	546,110	26	$	734,991
12	$	557,032	27	$	749,691
13	$	568,172	28	$	764,685
14	$	579,536	29	$	779,979
15	$	591,126	30	$	795,578

Appendix F
Existing Conditions Photos

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View of the Northeastern Building's Eastern Face



View of the Facility Patio and the Building's Southern Face



View of the Southwestern Building's Southern Face



View of the Facility's Wastern Face looking South along the Western Maintenance Drive



View of the North Face of the Facility Maintenance Garage



View of the Facility's Northern Face



View of the Northeastern Building's Eastern Face



View of the Building's Western Face



View of the Facility's Eastern Face



Building Interior View



Building Interior View



Building Interior View

Appendix G
IPaC Official Species List

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

In Reply Refer To:
Project Code: 2022-0034277
Project Name: Briarcliff Manor Solar

April 21, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Note: IPaC has provided all available attachments because this project is in multiple field office jurisdictions.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

This project's location is within the jurisdiction of multiple offices. However, only one species list document will be provided for all offices. The species and critical habitats in this document reflect the aggregation of those that fall in each of the affiliated office's jurisdiction. Other offices affiliated with the project:

Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
(631) 286-0485

Project Summary

Project Code: 2022-0034277
Event Code: None
Project Name: Briarcliff Manor Solar
Project Type: Power Gen - Solar
Project Description: The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW AC ground mounted solar PV systems covering approximately +/- 40 acres of the parcel with a maximum height above grade 8.5 ft.
The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.1497708,-73.85385742719963,14z



Counties: Westchester County, New York

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Oct 15 to Aug 31
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10

NAME	BREEDING SEASON
Blue-winged Warbler *Vermivora pinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Cerulean Warbler *Dendroica cerulea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 29 to Jul 20
Eastern Whip-poor-will *Antrostomus vociferus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere
Kentucky Warbler *Oporornis formosus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Long-eared Owl *asio otus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Prairie Warbler *Dendroica discolor* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere

NAME	BREEDING SEASON
Willet *Tringa semipalmata* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

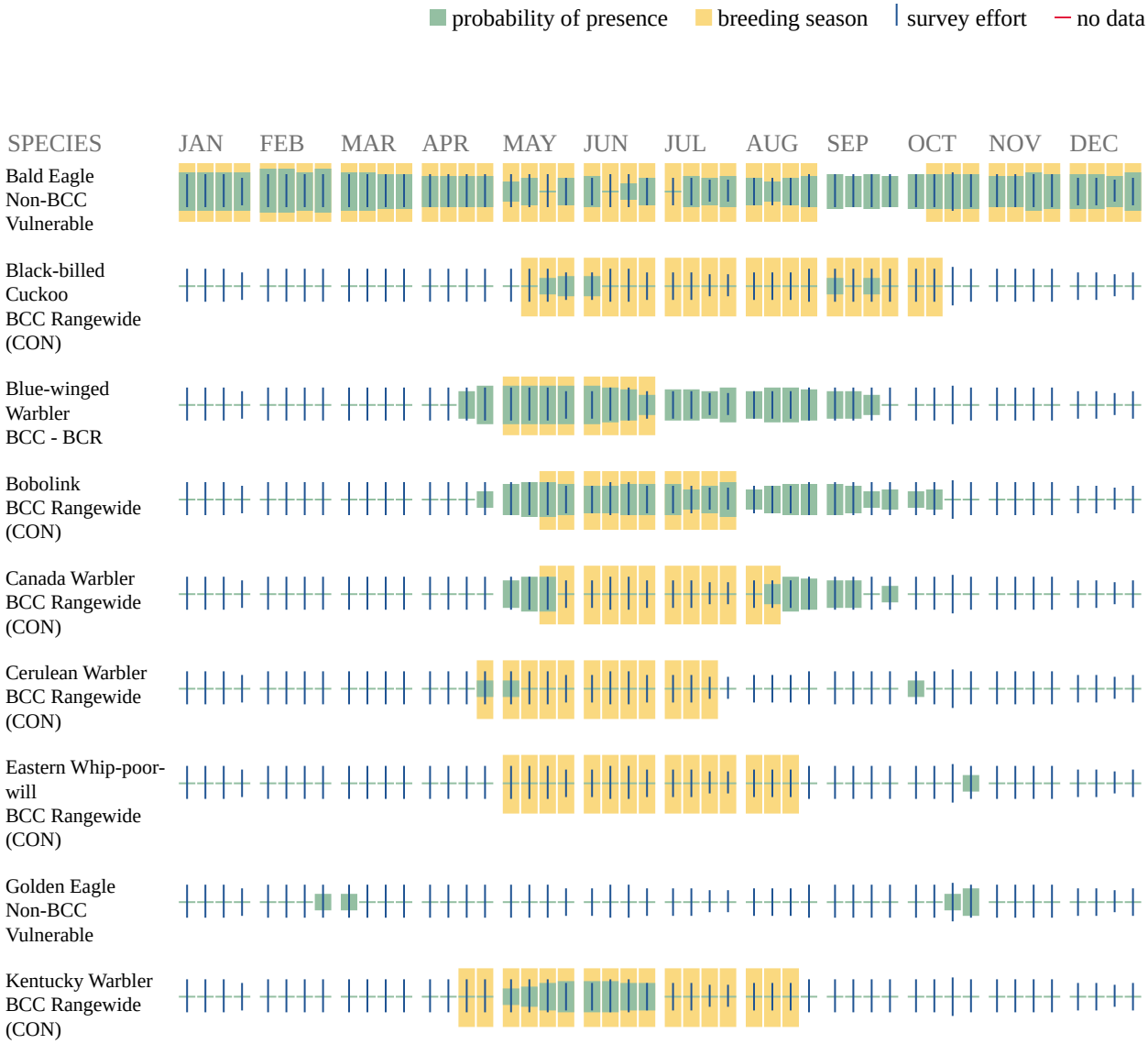
Breeding Season (■)

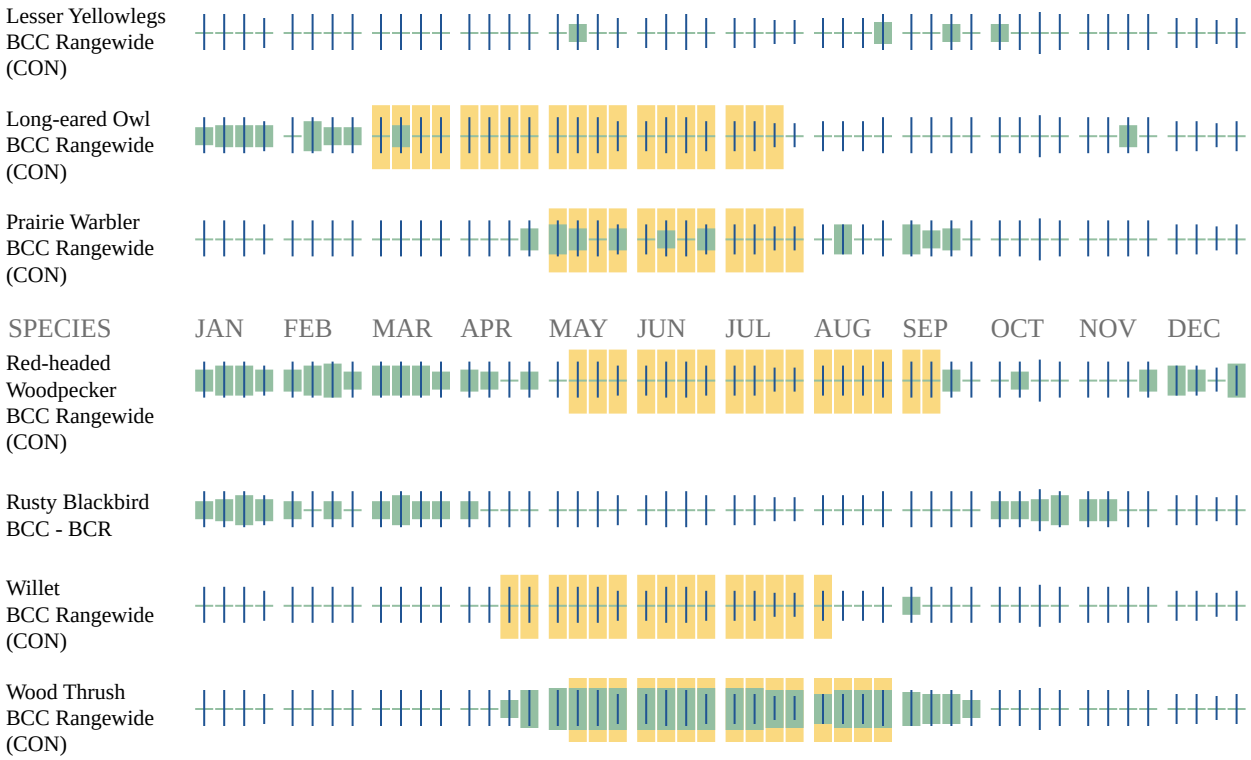
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles)

potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

IPaC User Contact Information

Agency: YSG Solar Development Company
Name: YSG Solar Development Company
Address: 79 Madison Ave, 8th Floor
City: New York
State: NY
Zip: 10016
Email nadia.jagdat@ysgsolar.com
Phone: 5168557283

Appendix H
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Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Briarcliff Solar; the development of a ground mounted solar PV facility.		
Project Location (describe, and attach a general location map): 345 Scarborough Rd, Briarcliff Manor, NY 10510, USA ; GPS Coordinates: 41.1481721053998, -73.85501441552442		
Brief Description of Proposed Action (include purpose or need): The overall site is identified on the Briarcliff Manor tax map as Parcel number 97.16-1-1 with a total parcel size of 78.24 Acres. The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW ground mounted solar PV systems covering approximately +/- 49.33 acres of the parcel with a maximum height above grade 8.5 ft. The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.		
Name of Applicant/Sponsor: Nadia Jagdat of Briarcliff Solar, LLC	Telephone: 212-389-9215 E-Mail: nadia.jagdat@ysgsolar.com	
Address: 79 Madison Avenue, 8th Floor		
City/PO: New York	State: New York	Zip Code: 10016
Project Contact (if not same as sponsor; give name and title/role): James Taravella of Briarcliff Solar, LLC	Telephone: 212-389-9215 E-Mail: james.t@ysgsolar.com	
Address: 79 Madison Avenue, 8th Floor		
City/PO: New York	State: New York	Zip Code: 10016
Property Owner (if not same as sponsor): YSG Land Holdings, LLC	Telephone: 212-389-9215 E-Mail: operations@ysgsolar.com	
Address: 79 Madison Avenue, 8th Floor		
City/PO: New York	State: New York	Zip Code: 10016

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	Village of Briarcliff Manor Site Plan Approval	Projected: September 1, 2022
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Village Planning Board of Briarcliff Manor Special Use Permit	Projected: September 1, 2022
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	Town of Ossining PILOT	Projected: November 1, 2022
e. County agencies ☑Yes ☐No	Westchester County Industrial Development Agency	Actual: November 30, 2021
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	1.NYS Department of Environmental Conservation 2.NYS Parks, Recreation & Historic Preservation	Projected: September 1, 2022
h. Federal agencies ☑Yes ☐No	1. U.S. Fish and Wildlife Service - no impact 2. U.S. Army Corps of Engineers - no impact	Projected: September 1, 2022

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☑Yes ☐No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Village of Briarcliff Manor Zoning: Business District CT1 (Complementary Use Transition 1).

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Briarcliff Manor Union Free School District.

b. What police or other public protection forces serve the project site?
The Village of Briarcliff Manor Police Department.

c. Which fire protection and emergency medical services serve the project site?
The Briarcliff Manor Ambulance Corps in the Fire Department serves the emergency medical needs of the community.

d. What parks serve the project site?
None.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Commercial Solar Development.

b. a. Total acreage of the site of the proposed action? 78.24 acres
b. Total acreage to be physically disturbed? 49.33 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 78.24 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
_____
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 12 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures TBD

ii. Dimensions (in feet) of largest proposed structure: 8.5 height; TBD width; and TBD length

iii. Approximate extent of building space to be heated or cooled: N/A square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐Yes ☑No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☐No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑Yes ☐No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 0 acres (impervious surface)

_____ Square feet or 78.24 acres (parcel size)

ii. Describe types of new point sources. None.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

On-Site surface water and groundwater.

- If to surface waters, identify receiving water bodies or wetlands:

Riverine Classification Code: R3UBH, SC/C, Regulation 864-57

Freshwater Pond Code: PUBHh

- Will stormwater runoff flow to adjacent properties? ☐Yes ☑No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐Yes ☑No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend

☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8:00AM to 6:00PM
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

ii. During Operations:

- Monday - Friday: Daylight Hours: Sunrise to Sunset
- Saturday: Daylight Hours: Sunrise to Sunset
- Sunday: Daylight Hours: Sunrise to Sunset
- Holidays: Daylight Hours: Sunrise to Sunset

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe:

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☐ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: <1 tons per Year (unit of time)
- Operation : 0 tons per Year (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Recyclable materials will be recycled.
- Operation: N/A - Commercial solar facilities are passive by nature. There will be no on site waste generated during operation.

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: General construction and demolition debris will be disposed at a licensed facility.
- Operation: N/A

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☑ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	~7.3	~1.7	-5.6
• Forested	~53.45	~32.995	-20.455
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	~16	~43.045	+27.045
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	~0.5	~0.5	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☑ Yes ☐ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☑ Yes ☐ No

☑ Yes – Spills Incidents database — Provide DEC ID number(s): See Spills Incident Attachment.

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No

If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____

_____

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? TBD feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

PnC Paxton Fine Sandy Loam	23.3 %
PnD Paxton Fine Sandy Loam	32 %
PnB Paxton Fine Sandy Loam	11 %

d. What is the average depth to the water table on the project site? Average: TBD feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 864-58, 864-57 Classification B, SC / C
- Lakes or Ponds: Name None. Classification None.
- Wetlands: Name Federal Waters, Federal Waters, Federal Waters,... Approximate Size 0.5 Acres
- Wetland No. (if regulated by DEC) N/A

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☑ Yes ☐ No

If Yes:

i. CEA name: County & State Park Lands

ii. Basis for designation: Exceptional or unique character

iii. Designating agency and date: Agency:Westchester County, Date:1-31-90

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☑ Archaeological Site ☐ Historic Building or District

ii. Name: Old Croton Aqueduct

iii. Brief description of attributes on which listing is based:

Water distribution system.

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name YSG Solar Development Company Date May 13, 2022

Signature Nadia Jagdat Title Development Associate

PRINT FORM

EAF Mapper Summary Report

Thursday, January 6, 2022 11:20 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	864-58, 864-57
E.2.h.iv [Surface Water Features - Stream Classification]	B, SC / C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No

E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	Yes
E.3.d [Critical Environmental Area - Name]	County & State Park Lands
E.3.d.ii [Critical Environmental Area - Reason]	Exceptional or unique character
E.3.d.iii [Critical Environmental Area – Date and Agency]	Agency:Westchester County, Date:1-31-90
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Old Croton Aqueduct
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1	9108436	11/7/1991	PHILLIPS LABORATORIES	Westchester	BRIARCLIFF	345 SCARBOROUGH RD
2	9109356	12/3/1991	PHILIPS LABS	Westchester	BRIARCLIFF	345 SCARBOROUGH RD
3	9207085	9/18/1992	PHILLIPS LAB	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
4	9211458	1/6/1993	PHILLIPS LABORATORIES	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
5	9503630	6/24/1995	ROADWAY	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
6	9605979	8/8/1996	PHILLIPS LABORATORIES	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
7	9614999	3/27/1997	PHILLIPS LAB	Westchester	BRIARCLIFF	345 SCARBOROUGH RD
8	9703570	6/23/1997	PHILIPS LABORATORIES	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
9	205462	8/24/2002	PHILLIPS RESEARCH	Westchester	BRIARCLIFF	345 SCARBOROUGH RD
10	403556	7/2/2004	PHILLIPS RESEARCH	Westchester	BRIARCLIFF	345 SCARBOROUGH RD
11	410334	12/17/2004	PHILIPS RESEARCH	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH ROAD
12	701008	4/24/2007	WEST SIDE OF BUILDING	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH RD
13	1308235	11/13/2013	PHILIPS	Westchester	BRIARCLIFF MANOR	345 SCARBOROUGH RD

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9108436

Spill Date/Time

Spill Date: 11/07/1991 **Spill Time:** 09:00:00 AM
Call Received Date: 11/07/1991 **Call Received Time:** 10:40:00 AM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Groundwater

Cause: Tank Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 11/25/1991

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9109356

Spill Date/Time

Spill Date: 11/29/1991 **Spill Time:** 12:00:00 PM
Call Received Date: 12/03/1991 **Call Received Time:** 02:30:00 PM

Location

Spill Name: PHILIPS LABS
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
unknown petroleum	UNKNOWN	Air

Cause: Abandoned Drums
Source: Institutional, Educational, Gov., Other
Waterbody:

Record Close

Date Spill Closed: 03/17/1992

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9207085

Spill Date/Time

Spill Date: 09/18/1992 **Spill Time:** 04:48:00 PM
Call Received Date: 09/18/1992 **Call Received Time:** 04:52:00 PM

Location

Spill Name: PHILLIPS LAB
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 08/27/1993

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9211458

Spill Date/Time

Spill Date: 01/06/1993 **Spill Time:** 09:20:00 AM
Call Received Date: 01/06/1993 **Call Received Time:** 09:53:00 AM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	100 Gal.	Soil

Cause: Human Error
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 01/07/1993

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9503630

Spill Date/Time

Spill Date: 06/23/1995 **Spill Time:** 11:00:00 PM
Call Received Date: 06/24/1995 **Call Received Time:** 01:36:00 AM

Location

Spill Name: ROADWAY
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
unknown petroleum	UNKNOWN	Soil

Cause: Equipment Failure
Source: Commercial Vehicle
Waterbody:

Record Close

Date Spill Closed: 07/07/1995

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9605979

Spill Date/Time

Spill Date: 08/08/1996 **Spill Time:** 12:00:00 PM
Call Received Date: 08/08/1996 **Call Received Time:** 01:18:00 PM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 01/07/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9614999

Spill Date/Time

Spill Date: 03/27/1997 **Spill Time:** 12:00:00 PM
Call Received Date: 03/27/1997 **Call Received Time:** 01:31:00 PM

Location

Spill Name: PHILLIPS LAB
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
hydraulic oil	1 Gal.	Soil

Cause: Equipment Failure
Source: Commercial Vehicle
Waterbody:

Record Close

Date Spill Closed: 03/28/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9703570

Spill Date/Time

Spill Date: 06/23/1997 **Spill Time:** 11:00:00 AM
Call Received Date: 06/23/1997 **Call Received Time:** 12:02:00 PM

Location

Spill Name: PHILIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	100 Gal.	Soil

Cause: Equipment Failure
Source: Institutional, Educational, Gov., Other
Waterbody:

Record Close

Date Spill Closed: 11/10/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0205462

Spill Date/Time

Spill Date: 08/24/2002 **Spill Time:** 01:15:00 PM
Call Received Date: 08/24/2002 **Call Received Time:** 01:20:00 PM

Location

Spill Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 09/26/2002

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0403556

Spill Date/Time

Spill Date: 07/02/2004 **Spill Time:** 11:30:00 AM
Call Received Date: 07/02/2004 **Call Received Time:** 12:51:00 PM

Location

Spill Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Non Major Facility > 1,100 gal
Waterbody:

Record Close

Date Spill Closed: 12/10/2004

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0410334

Spill Date/Time

Spill Date: 12/17/2004 **Spill Time:** 08:46:00 AM
Call Received Date: 12/17/2004 **Call Received Time:** 08:46:00 AM

Location

Spill Name: PHILIPS RESEARCH
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Groundwater

Cause: Equipment Failure
Source: Non Major Facility > 1,100 gal
Waterbody:

Record Close

Date Spill Closed: 11/05/2009

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0701008

Spill Date/Time

Spill Date: 04/20/2007 **Spill Time:** 02:10:00 PM
Call Received Date: 04/24/2007 **Call Received Time:** 03:36:00 PM

Location

Spill Name: WEST SIDE OF BUILDING
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
motor oil	1 Gal.	Soil

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 12/10/2007

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 1308235

Spill Date/Time

Spill Date: 11/13/2013 **Spill Time:** 07:00:00 AM
Call Received Date: 11/13/2013 **Call Received Time:** 10:05:00 AM

Location

Spill Name: PHILIPS
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	10 Gal.	Unknown

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 11/13/2013

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

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Appendix I
Natural Heritage

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Appendix I-1
Notification Letter

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79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

NYS Natural Heritage Program
Natural Heritage Trust
625 Broadway 5th Floor
Albany, NY 12233
(518) 402-8935
NaturalHeritage@dec.ny.gov

March 28, 2022

To the NYS Natural Heritage Program,

I am writing to you on behalf of YSG Solar Development Company, LLC regarding the proposed development of a Solar PV facility located in the Village of Briarcliff Manor in Westchester County, New York. The overall site is identified on the Briarcliff Manor tax map as parcel number 97.16-1-1 with a total acreage of 78.24 Acres. We are contacting the Natural Heritage Trust to seek confirmation that the project will not impose on any sensitive or rare plants and animals, or significant natural communities located at the site. Below is a description of the project for your review.

The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW ground mounted solar PV systems covering approximately +/- 40 acres of the parcel with a maximum height above grade 8.5 ft.

The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

The development will provide renewable energy access via community solar. I have enclosed a copy of a preliminary site map and SEQR long form for your review. Thank you for your time and we look forward to hearing back from you with your determination.

Sincerely,

Nadia Jagdat

Nadia Jagdat
YSG Solar Development Company, LLC
nadia.jagdat@YSGSolar.com

Appendix I-2
Response Letter

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Nadia Jagdat <nadia.jagdat@ysgsolar.com>

YSG Solar_Briarcliff Solar

3 messages

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Mon, Mar 28, 2022 at 2:59 PM
To: "dec.sm.NaturalHeritage" <NaturalHeritage@dec.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Good afternoon.

I am reaching out to you from YSG Solar Development Company, LLC in pursuance of a no impact determination for one of our proposed Solar PV developments in Briarcliff Manor, NY. Please find attached a copy of the notification letter, Long Form SEQR and preliminary site map. We look forward to your response. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835

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4 attachments

- **Site Map Briarcliff 2.pdf** 604K
- **Site Map Briarcliff.pdf** 603K
- **SEQR FEAF - Final 032822 (Signed).pdf** 1829K
- **NYS Natural Heritage Program Notification Letter Briarcliff.pdf** 104K

dec.sm.NaturalHeritage <NaturalHeritage@dec.ny.gov> Fri, Apr 1, 2022 at 11:49 AM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Nadia,

When you use the EAF Mapper to fill in your EAF, submitting a project screening request to NY Natural Heritage is not necessary as the EAF Mapper uses the same data that we use in our project screenings. And in this case, your FEAF does not indicate any known records of rare or endangered species, or significant habitats, at or in the vicinity of the proposed project site, so further action involving us is not necessary.

Sincerely,

Heidi Krahling, Environmental Review Specialist

(she/her)

NY Natural Heritage Program

625 Broadway, 5th Floor

Albany, NY 12233-4757

www.nynhp.org

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Nadia Jagdat <nadia.jagdat@ysgsolar.com> Tue, Apr 5, 2022 at 9:49 AM
To: "dec.sm.NaturalHeritage" <NaturalHeritage@dec.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Thank you, Heidi. Can you please provide a letter stating that the site will have no impact on rare or endangered species, or significant habitats? We need this for due diligence.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835



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Appendix J
NYSDEC Wildlife

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Appendix J-1
Notification Letter

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79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

NYSDEC Region 3 Wildlife Program
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3098
Wildlife.R3@dec.ny.gov

May 6, 2022

To the NYSDEC Region 3 Wildlife Program,

I am writing to you on behalf of YSG Solar Development Company, LLC regarding the proposed development of a Solar PV facility located in the Village of Briarcliff Manor in Westchester County, New York. The overall site is identified on the Briarcliff Manor tax map as parcel number 97.16-1-1 with a total acreage of 78.24 Acres. We are contacting the Region 3 Wildlife Program to seek confirmation that the project will not impose on any sensitive or rare plants and animals, or significant natural communities located at the site. Below is a description of the project for your review.

The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW ground mounted solar PV systems covering approximately +/- 40 acres of the parcel with a maximum height above grade 8.5 ft.

The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

The development will provide renewable energy access via community solar. I have enclosed a copy of a preliminary site map and SEQR long form for your review. Thank you for your time and we look forward to hearing back from you with your determination.

Sincerely,

Nadia Jagdat

Nadia Jagdat
YSG Solar Development Company, LLC
nadia.jagdat@YSGSolar.com

Appendix J-2
NYSDEC Response

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Nadia Jagdat <nadia.jagdat@ysgsolar.com>

YSG Solar_Briarcliff Solar

Masi, Lisa M (DEC) <lisa.masi@dec.ny.gov> Tue, May 10, 2022 at 3:39 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>, "dec.sm.Wildlife.R3" <Wildlife.R3@dec.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Hello Nadia,

Was

Hello Nadia,

Thank you for the invitation to the call tomorrow and the information to review. Based on the information that follows, I'm assuming we do not need to join the call, but please let me know if there are any additional information needs or if you have questions.

I was able to screen the project against our database and while the site is just over 1 mile from an eagle nest and within 0.5 miles of a historic Mud Turtle location, no impacts to these species are anticipated and a NYS DEC endangered and threatened species permit will not be needed. The FEAF also indicated no ETS are known on the project site.

This species information represents our current knowledge of these resources. The absence of data does not necessarily mean that rare or other state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Lisa

Lisa Masi
Senior Wildlife Biologist
New York State Department of Environmental Conservation
Region 3
21 S. Putt Corners Rd
New Paltz, NY 12561
Office: 845-256-2257
Fax: 845-255-4659
Email: lisa.masi@dec.ny.gov

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Monday, May 9, 2022 8:56 AM
To: dec.sm.Wildlife.R3 <Wildlife.R3@dec.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
Subject: Re: YSG Solar_Briarcliff Solar

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning,

I am kindly following up on NYSDEC's availability to join the call scheduled with the FWS NY Field Office this Wednesday, May 11th at 10AM to discuss the Briarcliff Solar project.

Best regards,

Nadia Jagdat

Development Associate

YSG Solar

(ph)

212-389-9215

(fx) 877

-

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-

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On Fri, May 6, 2022 at 8:45 AM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:

> Good afternoon,

I am reaching out to you from YSG Solar Development Company, LLC in pursuance of a no impact response letter for our proposed Solar PV development in Briarcliff Manor, NY. Please find attached a copy of the notification letter, Long Form SEQR and preliminary site map.

We have a call scheduled with the FWS NY Field Office next Wednesday, May 11th at 10AM - would a representative from NYSDEC be able to join the call as we discuss the project? We look forward to your response. Thank you.

Best regards,

Nadia Jagdat

Development Associate

YSG Solar

(ph)

212-389-9215

(fx) 877

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Appendix K
IPaC Biological Assessment

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Briarcliff Manor Solar

Biological Assessment

Prepared using IPaC

Generated by YSG Solar Development Company (nadia.jagdat@ysgsolar.com)

May 12, 2022

The purpose of this Biological Assessment (BA) is to assess the effects of the proposed project and determine whether the project may affect any Federally threatened, endangered, proposed or candidate species. This BA is prepared in accordance with legal requirements set forth under Section 7 of the Endangered Species Act (16 U.S.C. 1536 (c)).

In this document, any data provided by U.S. Fish and Wildlife Service is based on data as of May 12, 2022.

Prepared using IPaC version 6.74.1-rc3

Briarcliff Manor Solar Biological Assessment

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1 Description Of The Action

1.1 Project Name

Briarcliff Manor Solar

1.2 Executive Summary

As demonstrated by the foregoing, Briarcliff Solar’s proposed Project will result in no air emissions or wildlife impacts, and has been carefully designed to minimize natural resource impact(s), and complies with the applicable air and water quality standards of the Village of Briarcliff Manor, New York State DEC, New York SHPO, United States ACE, and United States FWS.

The Project satisfies the requisite standards, and in light of the benefits this Project will provide to the State of New York and the Village of Briarcliff Manor with access to renewable energy, it is YSG's determination that the proposed project will not invovle any significant impacts to the Indiana Bat or Monarch Butterfly species.

Effect determination summary

1.3 Project Description

1.3.1 Location



LOCATION
Westchester County, New York

1.3.2 Description of project habitat

The Project Area is located entirely within three (3) non-wetland habitats: Mixed Hardwood Forest, Grasslands and Commercial Yard space. Findings obtained from The USFWS Ecological Services Program IPaC Official Species List combined with the data generated from NYSDEC's SEQR FEAF provide a baseline inventory of all ecological, vegetation, wildlife habitat and endangered species that exist at the site. Through conversations with USFWS and NYSDEC, YSG has determined the Project will not have any adverse impacts on Natural Diversity around the Project site.

In April and May 2022, YSG received an email responses to an environmental due diligence notification letters sent to NYSDEC Natural Heritage and NYSDEC Region 3 Wildlife. Enclosed with the letters were with a copy of the site plan set and SEQR FEAF. The response from Heidi Krahling, Environmental Review Specialist, from the NY Natural Heritage Program, as well as Lisa Masi, Biologist at NYSDEC Region 3 Wildlife, confirmed the results of the SEQR FEAF, indicating that there are not any known records of rare or endangered species, or significant habitats, at or in the vicinity of the proposed project site, so further action involving NYSDEC Natural Heritage or NYSDEC Wildlife is not necessary.

On May 11th 2022, YSG conducted a virtual meeting with Sandra Doran and Time Sullivan at USFWS New York Ecological Services Field Office to review the IPaC Official Species List for the Project generated through the USFWS website. According to the Species List, there are a total of two (2) threatened, endangered, or candidate species present at the project site; the Indiana Bat and the Monarch Butterfly. The Species List also confirms that there are no critical habitats within the project area under USFWS jurisdiction. The Official Species list was generated and submitted to the NY field office on April 21st, 2022. YSG is prepared and intends to conduct Phase 1 Habitat Surveys during the necessary survey periods, if the NY Field Office determines that further study is required for both of these species.

Relevant documentation

- Email - NYSDEC Natural Heritage No Impact Response
- IPaC Official Species List
- Email - NYSDEC Wildlife R3 No Impact Response
- NYS Natural Heritage Program Notification Letter Briarcliff
- SEQR FEAF - 032822
- NYSDEC Region 3 Wildlife Program Notification Letter

1.3.3 Project proponent information

Provide information regarding who is proposing to conduct the project, and their contact information. Please provide details on whether there is a Federal nexus.

Requesting Agency
YSG Solar Development Company

FULL NAME
YSG Solar Development Company

STREET ADDRESS
79 Madison Ave, 8th Floor

CITY	STATE	ZIP
New York	NY	10016

PHONE NUMBER	E-MAIL ADDRESS
5168557283	nadia.jagdat@ysgsolar.com

1.3.4 Project purpose

The proposed Project will result in no air emissions, has been designed to minimize natural resource impacts in the area, and complies with the applicable air and water quality standards of the New York State Department of Environmental Conservation (“NYSDEC”). In addition, the Project will not have an adverse environmental effect in the State of New York and will contribute to the State’s efforts in promoting the deployment of clean, renewable energy sources. Energy produced from the system will be apart of Con Edison's Community Solar Program and will provide access to renewable energy for community members in low income housing areas.

1.3.5 Project type and deconstruction

This project is a solar power plant construction project.

1.3.5.1 Project map



LEGEND



Project footprint

Panel Location: Complete engineering and design, cut above-ground vegetation, finish grading, geotechnical investigation, install photovoltaic panels, landscaping/ restoration, plant vegetation, prepare the project site (terrestrial), remove structures, photovoltaic solar power plant (structure)

1.3.5.2 photovoltaic solar power plant

Structure completion date
December 01, 2022

Removal/decommission date (if applicable)
Not applicable

Stressors
This activity is not expected to have any impact on the environment.

Description
The operations of the facility are passive, as the facility will be unstaffed, no potable water uses or sanitary discharges are planned, no liquid fuels are associated with the operation of the facility. Since the Project will make use of the existing roadways on site, and the construction will not require encroachment onto any wetlands. Therefore, there will not be any impact on the site or surrounding wetlands or animals.

1.3.5.3 complete engineering and design

Activity start date
September 30, 2022

Activity end date
Unspecified

Stressors
This activity is not expected to have any impact on the environment.

Description
LaBella Associates is our civil site engineer and provides all drawings in relation to the project. This process does not cause any disturbance on site.

1.3.5.4 cut above-ground vegetation

Activity start date
November 22, 2022

Activity end date
November 30, 2022

Stressors
This activity is not expected to have any impact on the environment.

Description
Tree removal will only be required in areas where the panels will be present. This area is not a critical habitat and will not result in any stressors for the environment.

1.3.5.5 finish grading

Activity start date
November 22, 2022

Activity end date
November 30, 2022

Stressors
This activity is not expected to have any impact on the environment.

Description
Grading will allow us to level the land after tree removal and ensure the topography is consistent and ready for installation. This will not cause any stressors to the site.

1.3.5.6 geotechnical investigation

Activity start date
May 12, 2022

Activity end date
June 30, 2022

Stressors
This activity is not expected to have any impact on the environment.

Description
Geotech is to be completed prior to construction and will be used to understand the geology of the site soils. The geotech will not cause any disturbance to the site.

1.3.5.7 install photovoltaic panels

Activity start date
December 01, 2022

Activity end date
December 30, 2022

Stressors
This activity is not expected to have any impact on the environment.

Description
The panels will be installed on helical piles. The ground that is removed in the piling process will be reused on site through grading.

1.3.5.8 landscaping/restoration

Activity start date
November 30, 2022

Activity end date
July 31, 2023

Stressors
This activity is not expected to have any impact on the environment.

Description
YSG will make efforts to restore pollinators, shrubs and plants around the panels to ensure that new growth is present. This will not cause any disturbance on site and will instead enhance the landscape.

1.3.5.9 plant vegetation

Activity start date
Unspecified

Activity end date
Unspecified

Stressors
This activity is not expected to have any impact on the environment.

Description
YSG will make efforts to restore pollinators, shrubs and plants around the panels to ensure that new growth is present. This will not cause any disturbance on site and will instead enhance the landscape.

1.3.5.10 prepare the project site (terrestrial)

Activity start date
Unspecified

Activity end date
Unspecified

Stressors
This activity is not expected to have any impact on the environment.

Description
YSG will complete site preparation with tree removal, grading and installation of the racking (helical piles) of the the panels will sit on.

1.3.5.11 remove structures

Activity start date
Unspecified

Activity end date
Unspecified

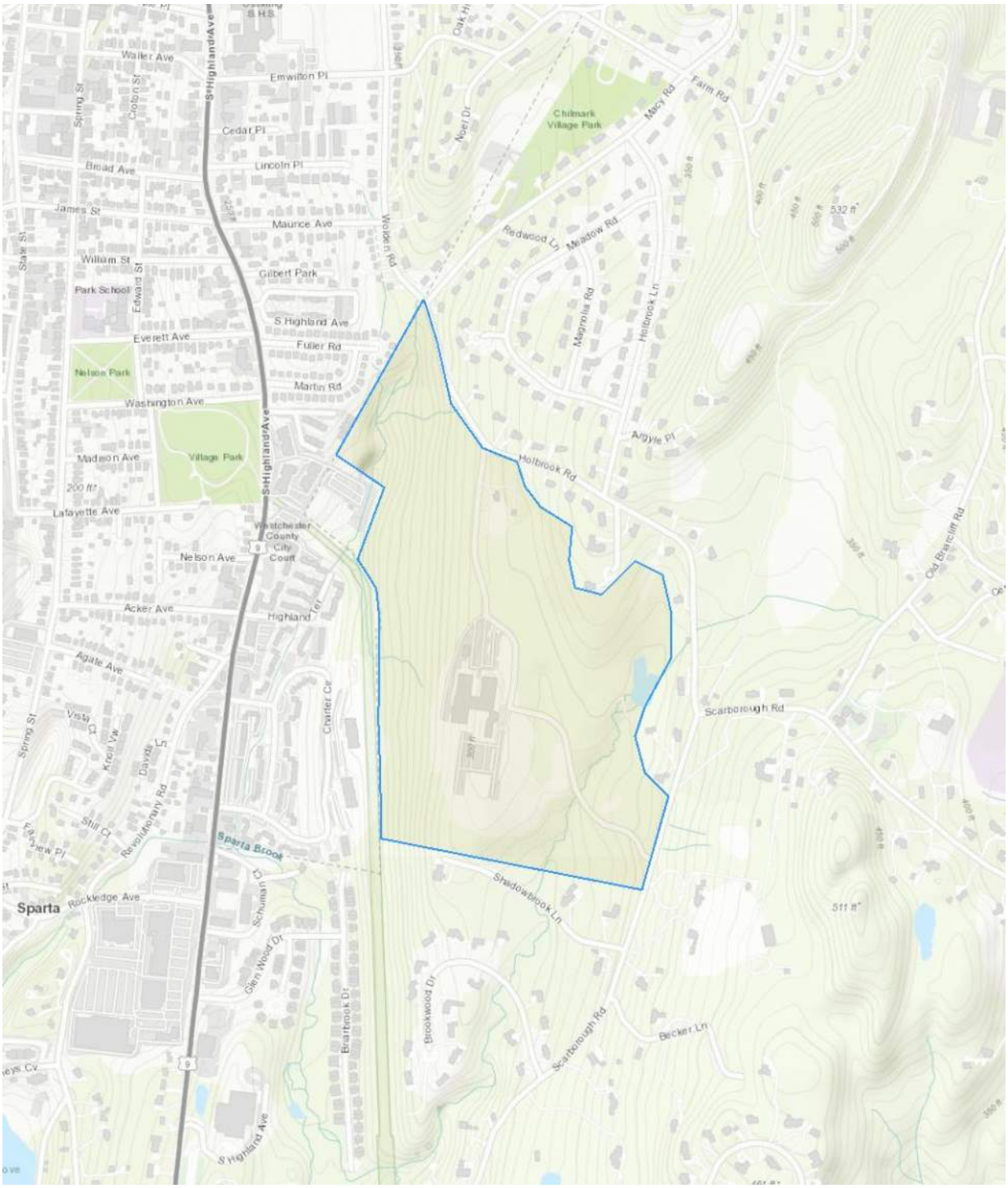
Stressors
This activity is not expected to have any impact on the environment.

Description
There is an existing research facility on site that is abandoned and poses safety risks to the local community. The demolition of the building will result in a decrease of impervious area and increase pervious area. In turn stormwater runoff in the area should improve overall.

1.3.6 Anticipated environmental stressors

Describe the anticipated effects of your proposed project on the aspects of the land, air and water that will occur due to the activities above. These should be based on the activity deconstructions done in the previous section and will be used to inform the action area.

1.4 Action Area



1.5 Conservation Measures

Describe any proposed measures being implemented as part of the project that are designed to reduce the impacts to the environment and their resulting effects to listed species. To avoid extra verbiage, don't list measures that have no relevance to the species being analyzed.

No conservation measures have been selected for this project.

1.6 Prior Consultation History

On May 11, 2022, YSG completed a conference call with USFWS Sandra Doran and Tim Sullivan to review the project impacts.

1.7 Other Agency Partners And Interested Parties

Link to project contact list: https://www.dropbox.com/scl/fi/9za2v6smgl4u0iqvaqyhk/Project-Contact-List.xlsx?dl=0&rlkey=zhk6wn5iw2qmopgx10ovi8sj2 (https://www.dropbox.com/scl/fi/9za2v6smgl4u0iqvaqyhk/Project-Contact-List.xlsx?dl=0&rlkey=zhk6wn5iw2qmopgx10ovi8sj2)

1.8 Other Reports And Helpful Information

None.

2 Species Effects Analysis

This section describes, species by species, the effects of the proposed action on listed, proposed, and candidate species, and the habitat on which they depend. In this document, effects are broken down as direct interactions (something happening directly to the species) or indirect interactions (something happening to the environment on which a species depends that could then result in effects to the species).

These interactions encompass effects that occur both during project construction and those which could be ongoing after the project is finished. All effects, however, should be considered, including effects from direct and indirect interactions and cumulative effects.

2.1 Indiana Bat

This species has been excluded from analysis in this environmental review document.

Justification for exclusion

Information provided by Sandie Doran from USFWS NY Field Office confirmed that the distance to the nearest Indiana bat roost tree is approximately 26 miles. The distance to nearest hibernaculum (overwinter site) is approximately 23 miles. The project will not have any remote impacts that will reach such a distance.

2.2 Monarch Butterfly

This species has been excluded from analysis in this environmental review document.

Justification for exclusion

Information provided by Sandie Doran at the USFWS confirmed that the monarch butterfly is currently a candidate for listing under the Endangered Species Act. While the monarch butterfly may be identified through the U.S. Fish and Wildlife Service's (Service) Information, Planning and Consultation (IPaC) program official species list requests, there is no requirement under section 10 (non-federal agency involvement) to coordinate with the Service on candidate, proposed, or listed species. However, as encouraged by USFWS, YSG will take advantage of any opportunity we may have to conserve the monarch butterfly. We also continue consider incorporating habitat restoration or enhancement measures into project plans that benefits the monarch butterfly and other pollinator species.

3 Critical Habitat Effects Analysis

No critical habitats intersect with the project action area.

4 Summary Discussion, Conclusion, And Effect Determinations

4.1 Effect Determination Summary

SPECIES (COMMON NAME)	SCIENTIFIC NAME	LISTING STATUS	PRESENT IN ACTION AREA	EFFECT DETERMINATION
Indiana Bat	Myotis sodalis	Endangered	No	NE
Monarch Butterfly	Danaus plexippus	Candidate	Excluded from analysis	Excluded from analysis

4.2 Summary Discussion

The total parcel area of the property is 78.24 acres. The proposed project will cause ground disturbance on approximately 49.33 acres of this land or ~63% . The Project will result in the conversion of approximately 20.455 acres of Mixed Hardwood Forest to meadows and grasslands to support the installation of the solar facility and prevent shading on the solar panels after installation. To mitigate the loss of forest habitat, Briarcliff Solar proposes establishing areas of native meadow habitat through planting and landscaping. Small tree and grass plantings will be established at the outer limits of the Project Area and the perimeter fence surrounding the Project's arrays. The landscaping will be well maintained to prevent panel shading. Over time the plantings will act as screen to prevent visibility to neighbors.

While these plantings do not necessarily "replace" forest loss, they will serve to increase early-successional/forest edge habitat value—particularly for species like the Indiana Bat and Monarch Butterfly. Overall, YSG does not antipate any signifcant impacts to habitats located at or adjacent to the project site.

4.3 Conclusion

The proposed Project will result in no air emissions, has been designed to minimize natural resource impacts in the area, and complies with the applicable air and water quality standards. YSG intends to implent all recommendations for tree clearing, grading and construction to minimize any potential for adverse impacts on these species. To mitigate the loss of forest habitat, YSG proposes establishing areas of native meadow habitat through planting and landscaping. Small tree and grass pollinator plantings will be established a throughout the Project Area and the perimeter fence surrounding the Project's arrays. YSG anticipates no signficant impacts to species found within the site boundaries including the Indiana Bat and Monarch Butterfly.

Appendix L
USFWS Species Data

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YSG SOLAR

Nadia Jagdat <nadia.jagdat@ysgsolar.com>

Re: Fw: [EXTERNAL] YSG Solar_Briarcliff Solar -Reference USFWS file #2022-0034277

6 messages

Doran, Sandra <Sandra_Doran@fws.gov> Wed, May 11, 2022 at 2:00 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: "Sullivan, Tim R" <tim_r_sullivan@fws.gov>, "Drew, Ian" <ian_drew@fws.gov>

Hi Nadia,

As per our call today, I am providing the distances (in miles) from the Project site to the nearest species location.

Eagles- The nearest bald nest is located on the Hudson River, approximately 2.6 miles from center of your site. There is no permit required for disturbing bald eagles or take of a bald eagle nest, based on the distance from the site to the nest and that the site is outside and buffer areas as outlined in the National Bald Eagle Management Guidelines https://www.fws.gov/media/national-bald-eagle-management-guidelines-0

Indiana bat - the distance to the nearest Indiana bat roost tree-approximately 26 miles.
Distance to nearest hibernaculum (overwinter site) - approximately 23 miles.

Monarch - the monarch butterfly is currently a candidate for listing under the Endangered Species Act. While the monarch butterfly may be identified through the U.S. Fish and Wildlife Service's (Service) Information, Planning and Consultation (IPaC) program official species list requests, there is no requirement under section 10 (non-federal agency involvement) to coordinate with the Service on candidate, proposed, or listed species. However, we encourage project sponsors to take advantage of any opportunity they may have to conserve the monarch butterfly. We also continue to encourage project sponsors to consider incorporating habitat restoration or enhancement measures into project plans that benefits the monarch butterfly and other pollinator species.

Please submit your species conclusion table using the Project information and the information above, and let us know if you have any questions.

Sandie Doran
U.S. Fish and Wildlife Service
3817 Luker Road
Cortland, NY 13045
Office Phone: 607-753-9334
Email: sandra_doran@fws.gov

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Friday, May 6, 2022 8:50 AM

To: Doran, Sandra <Sandra_Doran@fws.gov>
Subject: Re: Fw: [EXTERNAL] YSG Solar_Briarcliff Solar

Hi Sandra,

Here is the meeting joining information for May 11th at 10AM. I have also asked a representative from the NYSDEC Region 3 Wildlife team to be available for this call.

YSG | FWS - Briarcliff Solar Discussion
Wednesday, May 11 · 10:00 – 10:30am
Google Meet joining info
Video call link: https://meet.google.com/gmx-ukex-uwn
Or dial: (US) +1 617-675-4444 PIN: 107 144 295 8220#
More phone numbers: https://tel.meet/gmx-ukex-uwn?pin=1071442958220

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877 - 255 - 5835

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On Thu, May 5, 2022 at 9:02 AM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:

> Thank you, Sandra. I will send a Google Meeting Invitation link for May 11th at 10AM.
>
> Best regards,
> Nadia Jagdat
> Development Associate
> YSG Solar
> (ph) 212-389-9215
> (fx) 877 - 255 - 5835
>
> This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.
>
> On Thu, May 5, 2022 at 8:43 AM Doran, Sandra <Sandra_Doran@fws.gov> wrote:
>
> > I am available the 11th or 12 dates/times.
> >
> > Sandie Doran
> > U.S. Fish and Wildlife Service

3817 Luker Road
Cortland, NY 13045
Office Phone: 607-753-9334
Email: sandra_doran@fws.gov

Please note: We are currently experiencing a high demand for Endangered Species Act project reviews. To ensure that your project review packages are able to be reviewed as efficiently as possible, please include an Official Species List from the Information for Planning and Consultation (IPaC) website and all relevant project information. In addition, please use our Project Review website (New York Project Reviews | U.S. Fish & Wildlife Service (fws.gov)) and use our project review checklist (Project submittal checklist | U.S. Fish & Wildlife Service (fws.gov)) to make sure your project review request is complete.

Due to current staff shortages, a large workload for project reviews, and our work to conserve federally listed and at-risk species with our partners, current project review times can vary, possibly 60 days or more for large projects. Every project review is important to us; we will do our very best to address project reviews in a timely fashion. Your patience is appreciated.

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Thursday, May 5, 2022 8:28 AM
To: Doran, Sandra <Sandra_Doran@fws.gov>; NYFO, FW5ES <fw5es_nyfo@fws.gov>
Cc: David Magid <dmg@ysgsolar.com>; James Taravella <james.t@ysgsolar.com>
Subject: Re: Fw: [EXTERNAL] YSG Solar_Briarcliff Solar

Good morning,

I am kindly following up to confirm a conference call some time next week to discuss our project. Please let me know when you are available. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877 - 255 - 5835

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On Tue, May 3, 2022 at 3:00 PM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:

> Hi Sandra and Melissa,
>
> As we await the verification of the official species list for this project, we would like to set up a conference call some time next week to discuss the habitat surveys that may be required so we can be prepared for permitting. Below are a few proposed times. Please let me know what will work best for you both:
>
> May 11th at 10AM
> May 12th at 11AM
> May 13th at 12PM

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877 - 255 - 5835

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On Thu, Apr 28, 2022 at 3:17 PM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:

> Hi Melissa,
>
> I am kindly following up on the status of this No Impact Determination. Thank you.
>
> Best regards,
> Nadia Jagdat
> Development Associate
> YSG Solar
> (ph) 212-389-9215
> (fx) 877 - 255 - 5835
>
> This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.
>
> On Thu, Apr 21, 2022 at 9:30 AM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:
>
> > Thank you, Sandra. I was able to generate an Official Species List after creating a new project.
> >
> > Melissa, please find the Official Species List for the Briarcliff Manor project attached.
> >
> > Best regards,
> > Nadia Jagdat
> > Development Associate
> > YSG Solar
> > (ph) 212-389-9215
> > (fx) 877 - 255 - 5835
> >
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omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

On Wed, Apr 20, 2022 at 4:53 PM Doran, Sandra <Sandra_Doran@fws.gov> wrote:

> Hi -
>
> I hear you are having trouble accessing IPAC.
>
> Here's a link to try- https://ipac.ecosphere.fws.gov/
>
> 
>
>
> IPaC: Home
>
> If you have a project that could potentially affect USFWS trust resources, such as migratory birds, species proposed or listed under the Endangered Species Act, inter-jurisdictional fishes, specific marine mammals, wetlands, and
>
> ipac.ecosphere.fws.gov
>
> This worked for me today. Try generating a new one.
>
> Sandie Doran
> U.S. Fish and Wildlife Service
> 3817 Luker Road
> Cortland, NY 13045
> Office Phone: 607-753-9334
> Email: sandra_doran@fws.gov
>
> ---
>
> **From:** Nadia Jagdat <nadia.jagdat@ysgsolar.com>
> **Sent:** Monday, April 18, 2022 2:09 PM
> **To:** NYFO, FW5ES <fw5es_nyfo@fws.gov>
> **Cc:** James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
> **Subject:** Re: [EXTERNAL] YSG Solar_Briarcliff Solar
>
> Hi Melissa,
>
> It has been a few days and the species list status in the IPaC portal is still showing as processing. There is nothing on the documents page either. Can you advise when we can expect to see the generated report? Thank you.
>
> Best regards,
> Nadia Jagdat
> Development Associate
> YSG Solar
> (ph)
> 212-389-9215
> (fx) 877
> -

255
-
5835

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On Thu, Apr 14, 2022 at 2:13 PM Nadia Jagdat <nadia.jagdat@ysgsolar.com> wrote:

> Thank you, Melissa.
>
> I have submitted an official species list request and we are awaiting the results. I noticed the IPaC popup message stating that there is an issue with generating (see attached). Should we have received the results instantly? If not, when can we expect the official list to be generated? Thank you.
>
> Best regards,
> Nadia Jagdat
> Development Associate
> YSG Solar
> (ph)
> 212-389-9215
> (fx) 877
> -
> 255
> -
> 5835
>
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>
> On Mon, Apr 11, 2022 at 4:06 PM NYFO, FW5ES <fw5es_nyfo@fws.gov> wrote:
>
> > Good Afternoon,
> >
> > The document you attached is not an Official Species List, it is an IPaC Report that clearly states is "Not for Consultation." It also states, "This resource list is for informational purposes only and does

not constitute an analysis of project level impacts."

The NYFO cannot accept species lists that indicate they are "Not for Consultation."

To update an official species list obtained from IPaC, first log in to IPaC. From the My Projects page, find the project, expand the row, and click Project Home. In the What's next box on the project home page, there is a Request updated list button to update your species list.

For projects created after May 2015 by a person in your office who has since left, you can add these projects to your My Projects list by going to the My Projects and click the request access link at the top of the list. Enter the project code from the official species list and the original email address used in the request to gain access to the project. The species list can then be updated using the normal method above. If you do not have the project code **and** original email address, you will need to create a new project.

Regards,

Melissa Gonzalez-Trelles (she/her)
Secretary
US Fish & Wildlife Service
Ecological Services
New York Field Office
3817 Luker Road
Cortland, NY 13045
(607)299-0624

** We are currently experiencing a high demand for Endangered Species Act project reviews. To ensure that your project review packages are able to be reviewed as efficiently as possible, please include an Official Species List from the Information for Planning and Consultation (IPaC) website and all relevant project information. In addition, please use our Project Review website (New York Project Reviews | U.S. Fish & Wildlife Service (fws.gov)) and use our project review checklist (Project submittal checklist | U.S. Fish & Wildlife Service (fws.gov)) to make sure your project review request is complete.*

Due to current staff shortages, a large workload for project reviews, and our work to conserve federally listed and at-risk species with our partners, current project review times can vary, possibly 60 days or more for large projects. Every project review is important to us; we will do our very best to address project reviews in a timely fashion. Your patience is appreciated.

*Please note that this **response time does not start on the date that a species list is generated**. It starts once we are contacted by the applicant with all the necessary documents; including the automatically generated IPaC species lists.

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Tuesday, April 5, 2022 9:52 AM
To: NYFO, FW5ES <fw5es_nyfo@fws.gov>
Cc: James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
Subject: Re: [EXTERNAL] YSG Solar_Briarcliff Solar

Hi Melissa,

Thank you for your response. I think you may be mistaken as the IPaC report was generated in March of 2022. Please see attached for the IPaC report. Can you provide a no impact letter? Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph)
212-389-9215
(fx) 877
-
255
-
5835



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On Fri, Apr 1, 2022 at 10:47 AM NYFO, FW5ES <fw5es_nyfo@fws.gov> wrote:

> Hello,
>
> Since the last Official Species List you generated through IPaC is almost a year old you will need to log back into your project in IPaC and generate a new Species List. Once you send us the new list we can get started.
>
> Regards,
> **Melissa Gonzalez-Trelles** (she/her)
> Secretary
> US Fish & Wildlife Service
> Ecological Services
> New York Field Office
> 3817 Luker Road
> Cortland, NY 13045
> (607)299-0624
>
> *We review projects in the order in which we receive them. We strive for a 30-day response time. However, due to staffing issues, current project review times are closer to 60 days or more. Every project review is important; therefore, we do not prioritize certain projects ahead of others.
>
> *Please note that this **response time does not start on the date that a species list is generated**. It starts once we are contacted by the applicant with all the necessary documents; including the automatically generated IPaC species lists.

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Monday, March 28, 2022 2:49 PM
To: NYFO, FW5ES <fw5es_nyfo@fws.gov>
Cc: James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
Subject: [EXTERNAL] YSG Solar_Briarcliff Solar

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good afternoon USFWS,

I am reaching out to you from YSG Solar Development Company, LLC in pursuance of a no impact determination for one of our proposed Solar PV developments in Briarcliff Manor, NY. Please find attached a copy of the notification letter, Long Form SEQR and preliminary site map. We look forward to your response. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph)
212-389-9215
(fx) 877
-
255
-
5835

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Nadia Jagdat <nadia.jagdat@ysgsolar.com> Wed, May 11, 2022 at 3:40 PM
To: James Taravella <james.t@ysgsolar.com>

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835



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[Quoted text hidden]

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Wed, May 11, 2022 at 3:41 PM
To: "Doran, Sandra" <Sandra_Doran@fws.gov>
Cc: "Sullivan, Tim R" <tim_r_sullivan@fws.gov>, "Drew, Ian" <ian_drew@fws.gov>

Thank you, Sandie. Much appreciated. I will work on getting the conclusion table and NYSDEC correspondences to you soon.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835



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[Quoted text hidden]

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Fri, May 13, 2022 at 1:50 PM
To: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Hi guys, here's the response for the USFWS.

Hi Sandie and Tim,

We appreciate your feedback that was provided on call this week. We have completed the IPaC analysis on the official species list for our Briarcliff project. Please find attached the conclusion table and email correspondences with NYSDEC Natural Heritage and NYSDEC Wildlife. Let me know if you need any additional documentation to provide a no impact letter. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835

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---------- Forwarded message ---------
From: **Nadia Jagdat** <nadia.jagdat@ysgsolar.com>
Date: Wed, May 11, 2022 at 3:41 PM
Subject: Re: Fw: [EXTERNAL] YSG Solar_Briarcliff Solar -Reference USFWS file #2022-0034277
To: Doran, Sandra <Sandra_Doran@fws.gov>
Cc: Sullivan, Tim R <tim_r_sullivan@fws.gov>, Drew, Ian <ian_drew@fws.gov>

[Quoted text hidden]

3 attachments

Briarcliff Manor Solar Biological Assessment.pdf
3649K

Email - NYSDEC Natural Heritage No Impact Response.pdf
126K

Email - NYSDEC Wildlife R3 No Impact Response.pdf
114K

David Magid <dmg@ysgsolar.com> Fri, May 13, 2022 at 1:54 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: James Taravella <james.t@ysgsolar.com>

I think this is good to go so long as Jim has no issues with it
One item lets avoid talking about pollinators and promising that I dont want to do that its expensive.
dont change anything but moving forward lets stop that
--
Best regards,
David Magid | LinkedIn |
YSG Solar
79 Madison Avenue, 8th Floor
New York, NY 10016
Office: 212-389-9215
Desk: 212-960-8598
Information presented in this email is indicative, non-binding, and for discussion purposes only. Nothing contained in this email is an offer to buy, sell, or transact. Any transaction would be subject to full negotiation of definitive documents and subject to express approval by the management of YSG Development Company, LLC or it's affiliates.

[Quoted text hidden]

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Fri, May 13, 2022 at 2:33 PM
To: "Doran, Sandra" <Sandra_Doran@fws.gov>
Cc: "Sullivan, Tim R" <tim_r_sullivan@fws.gov>, "Drew, Ian" <ian_drew@fws.gov>

Hi Sandie and Tim,

We appreciate your feedback that was provided on call this week. We have completed the IPaC analysis on the official species list for our Briarcliff project. Please find attached the conclusion table and YSG's email correspondences with

NYSDEC Natural Heritage and NYSDEC Wildlife. Let me know if you need any additional documentation to provide a no impact letter. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835



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114K

Briarcliff Manor Solar Biological Assessment.pdf
3649K

Appendix M
Phase 1 ESA

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ENVIRONMENTAL AFFILIATES INC.

PHASE 1
ENVIRONMENTAL SITE ASSESSMENT

345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510



ENVIRONMENTAL AFFILIATES, INC.
3 LODI LANE
MONSEY, NEW YORK 10952
PHONE: 845-354-7071 845-323-5008
FAX: 845-362-5130
email: alex@enafco.com

E A I **PROJECT #223152**

ENVIRONMENTAL AFFILIATES, INC.

PHASE I ENVIRONMENTAL ASSESSMENT
ASTM E 1527-13

SITE ADDRESS: **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

PREPARED FOR: **BRIARCLIFF SOLAR, LLC**

BRIARCLIFF LAND HOLDINGS, LLC

YSG SOLAR DEVELOPMENT COMPANY, LLC

DISTRIBUTED SOLAR DEVELOPMENT, LLC

PREPARED BY: **ENVIRONMENTAL AFFILIATES, INC.**
3 LODI LANE
MONSEY, NEW YORK 10952

DATE: **APRIL 26, 2022**

THIS REPORT IS THE PROPERTY OF EAI AND BRIARCLIFF SOLAR LLC, BRIARCLIFF LAND HOLDINGS LLC, YSG SOLAR DEVELOPMENT COMPANY, LLC, DISTRIBUTED SOLAR DEVELOPMENT LLC AND WAS PREPARED FOR A SPECIFIC USE, PURPOSE, AND RELIANCE AS DEFINED WITHIN THE AGREEMENT BETWEEN EAI AND BRIARCLIFF SOLAR LLC, BRIARCLIFF LAND HOLDINGS LLC, YSG SOLAR DEVELOPMENT COMPANY LLC, DISTRIBUTED SOLAR DEVELOPMENT LLC. THERE SHALL BE NO THIRD PARTY BENEFICIARIES, INTENDED OR IMPLIED, UNLESS SPECIFICALLY IDENTIFIED HEREIN.

SECTION

A

SITE SUMMARY

345 Scarborough Road
Briarcliff Manor, NY 10510

Assessment Component	Reference Section	Page	No Further Action	Recognized Environmental Condition (REC)	Non-ASTM Environmental Concern
Historical Review	**5.**	**12**	✓		
Operational Activities	**6.1.**	**22**	✓		
Hazardous Materials	**6.2.**	**22**	✓		
Waste Generation	**6.3.**	**23**	✓		
PCBs	**6.4.**	**23**	✓		
Asbestos	**6.5.**	**23**	✓		
Tanks/Pipelines	**6.6.**	**24**	✓		
Surface Areas	**6.7.**	**25**	✓		
Lead Paint	**6.8.**	**26**			**Peeling paint throughout the building**
Mold-Water Intrusion	**6.9.**	**26**			**Mold and water throughout the building**
Regulatory Database Review		**2**	✓		
Adjacent Properties	**7.**	**27**	✓		

Conditions noted in the Site Summary Table are representative of the overall conditions of the property. There may be more detail on specific assessment components in the report text; therefore the Project Summary Table should not be used as a stand-alone document.

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1. EXECUTIVE SUMMARY

EAI performed a Phase I Environmental Site Assessment Phase I (ESA) ASTM Standard 1527-13 that included on-site observations of the accessible areas of 345 Scarborough Road (the Subject Site), on April 01, 2022. The Subject Site is located in Briarcliff Manor, Westchester County, State of New York.

According to available historical records, the Subject Site was originally developed: Lots 10 & 11 in late 1940s, maintenance garage Lot 1 in 1963 and Research Facility Main Buildings Lot 1 in 1963-1988. Prior to original development of the Subject Site, and according to available historical sources, the Subject Site was formerly vacant land. Properties in the general vicinity of the Subject Site appear to be residential apartment buildings.

The following summarizes the independent conclusions representing EAI's best professional judgment based on information and data available to us during the course of this assignment. Factual information regarding operations, conditions, and test data provided by the Client, owner, or their representative has been assumed to be correct and complete. Additionally, the conclusions presented are based on the conditions that existed at the time of the assessment.

1.1 FINDINGS/CONCLUSIONS

- The following table provides a general description of the subject property. (See Section 4)

Address:	*345 Scarborough Road, Briarcliff Manor, NY 10510*
Nature of Use:	*Vacant research facility*
Description:	*The Subject Site consists of a vacant office building which housed the former Philips Research Facility and a residential building*
Assessor's Parcel Number (APN):	*97.16-1-1, 97.12-1-9, 97.12-1-10, 97.12-1-11*
Number of Floors:	3
Approx Lot Size:	*78.24 acres*
Approx Building Square Footage:	*N/A*
Approx Date of Construction:	*1963, 1963-1988, late 1940s*

Historical Review (Section 5.8)

- The review of the historical data available for the Subject Site and surrounding area identified James Speyer owned approximately 130-acres, inclusive. Of the study Site boundary, from the 1890s to 1946. The Speyer property was known as Waldheim and was used as a family estate with a portion developed as a golf course. The Site was likely undeveloped or used for residential/agricultural purposes prior to the 1890s. In 1946, the Site was purchased by David Swope who intended to develop the property for residential purposes. Swope subdivided and developed some of the property for residential purposes prior to selling the property to Philips North America (Philips).
- Philips acquired the Swope property and an additional parcel (Lots 10 & 11) to make up the current Site boundary in 1960. Philips constructed the research facility and began operations in 1964. The initial construction consisted of Buildings A and B, with the addition of Building C in 1980, and Building D in 11988. Philips used the Site for research and office space until 2015 when operations were transferred to other locations. The Site was vacant during the site reconnaissance.

Operational Activities (Section 6.1)

- EAI observed no circumstances of environmental concern associated with the operational activities at the Subject Site. No further action or investigation is recommended regarding operational activities at the Subject Site.

Hazardous Materials/Petroleum Products (Section 6.2)

- The Subject Site is not involved in the use of petroleum products. No further action or investigation is recommended regarding the use of hazardous materials or petroleum products at the Subject Site.

Wastes (Section 6.3)

- The Subject Site does not generate, treat, store or dispose of hazardous, medical, or regulated wastes. The non-hazardous solid and liquid wastes generated at the Subject Site appear to be stored and disposed of properly.

Polychlorinated Biphenyls (PCBs) (Section 6.4)

- Two (2) electric transformers on cement-pad were observed west of Building-C. No labeling was observed. One hydraulic elevator associated with Building-C is not in service. No action or investigation is recommended regarding PCBs at the Subject Site.

Asbestos-Containing Materials (ACM) (Section 6.5)

- 214 samples of suspect ACM were collected by GZA Environmental May 8-9 of 2017. In addition, an ACM survey report was performed by Warren Panzer Engineering in March of 1989. If any demolition or remodeling activities are to occur in the buildings, a detailed asbestos survey should be conducted to determine if any of the materials contain asbestos. If any of the materials do contain asbestos, they should be removed and disposed of in accordance with all applicable Federal, State, and Local Regulations prior to any demolition or remodeling activities.

Storage Tanks Pipelines (Section 6.6)

- Four (4) underground storage tanks were removed from the Subject Site from 1998-2004, and one 20,000-gallon UST was filled in place. Additionally, the Subject Site was listed in the database report for at least five (5) petroleum-related spills and one (1) complaint of a leaking drum. The spills and tank removals were listed as closed, indicating that they were resolved to the satisfaction of applicable regulatory agencies. A previous Phase I ESA indicated that there were fourteen (14) documented spills at the Subject Site that also were resolved to the satisfaction of regulatory agencies.
- No further action or investigation is recommended regarding storage tanks or pipelines at the Subject Site.

Surface Areas (Section 6.7)

- No issues associated with surface areas were identified. No further action or investigation is recommended regarding surface areas at the Subject Site.

Lead Paint Hazards (Section 6.8)

- **Based on our visual inspection of the building's interiors, the painted surfaces are currently in poor condition, with peeling paint concerns, and LBP hazard was noted throughout the subject building.**

Mold & Mildew (Section 6.9)

- EAI performed a limited visual assessment for the presence of mold, conditions conducive to mold, and evidence of moisture in readily accessible interior areas of the Subject Site. **EAI observed visual indications of the presence of mold, conditions conducive to mold, and evidence of moisture in readily accessible interior areas of the Subject Site. This is due to water intrusion throughout the building from the leaking roof in poor condition.**

Regulatory Review

- Based on review of the regulatory database report, the Subject Site is listed on the NY Manifest, Finds. US Airs, RCRA-VSQG, Erns databases. See Section D Site Details Pages 1-49.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #0701008 dated 04/20/2007. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. Spill on concrete pad and soil; soil has been removed and placed in drums. Status: Closed 12/10/2007. See Section D Site Details Pages 5-6.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9211458 dated 01/06/1993. Spill Cause: Human Error. Spill Source: Commercial/Industrial. Manhole cover on top of tank was left open; spill contained on top of tank. Status: Closed 01/07/1993. See Section D Site Details Pages 6-7.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9503630 dated 06/23/1995. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. See Section D Site Details Pages 7-8.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9703570 dated 06/23/1997. Spill Cause: Equipment Failure. Spill Source: Institutional, Educational, Gov., Other. A float stuck causing day tank to overflow through the vent line onto soil. Status: Closed 11/10/1997. See Section D Site Details Pages 8-9.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #0410334 dated 12/17/2004. Spill Cause: Equipment Failure. Spill Source: Non Major Facility >1,100-gallon. Found contaminated soil. Status: Closed 11/05/2009. See Section D Site Details Pages 9-10.
- Based on review of the regulatory database report, the Subject Site is listed on the NY LTanks database, Spill #9207085 dated 08/27/1993. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Material spilled from tank test. Status: Closed 08/27/1993. See Section D Site Details Pages 11-12.
- Based on review of the regulatory database report, the Subject Site is listed on the NY LTanks database, Spill #9605979 dated 08/08/1996. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Contaminated soil removed. Status: Closed 01/07/1997. See Section D Site Details Pages 12-14.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #1308235 dated 11/13/2013. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. 10 gallons spilled in the boiler room, all contained to the concrete floor. Status: Closed 11/13/2013. See Section D Site Details Pages 40-41.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9109356 dated 11/29/1991. Spill Cause: Abandoned Drums. Spill Source: Institutional, Educational, Gov., Other. Complaints of drums leaking at lab. Kids playing in the area were exposed. Status: Closed 03/17/1992. See Section D Site Details Pages 42-43.

- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9614999 dated 03/27/1997. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. About one pint leaked when a hose broke. Status: Closed 03/28/1997. See Section D Site Details Pages 43-44.
- Based on review of the regulatory database report, the Subject Site is listed on the NY LTanks database, Spill #0205462 dated 08/24/2002. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Tank to be retested. Status: Closed 09/26/2002. See Section D Site Details Pages 45-46.
- Based on review of the regulatory database report, the Subject Site is listed on the NY LTanks database, Spill #0403556 dated 07/02/2004. Spill Cause: Tank Test Failure. Spill Source: Non Major Facility >1,100-gallons. Tank passed retest after piping was repaired. Company to excavate the tank top. Status: Closed 12/10/2004. See Section D Site Details Pages 46-47.
- Based on review of the regulatory database report, the Subject Site is listed on the NY LTanks database, Spill #9108436 dated 11/07/1991. Spill Cause: Tank Failure. Spill Source: Commercial/Industrial. While excavating new foundation encountered oil contaminated soil. See Section D Site Details Pages 47-48.
- Based on review of the regulatory database report, the Subject Site is listed on the NY Spills database, Spill #9513598 dated 01/26/1996. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. Broken deck hose from the front of the trailer to the pump. Spill cleaned up by driver. Status: Closed 01/26/1996. See Section D Site Details Pages 52-53.
- 100 Holbrook Road, 0.012 ESE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #002631 dated 01/06/2000. Spill Cause: Tank Test Failure. Spill Source: Private Dwelling. Tank failed the test. Status: Closed 10/04/2000. See Section D Site Details Pages 54-55.
- 181 Holbrook Road, 0.014 NE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9608347 dated 10/03/1996. Spill Cause: Unknown. Spill Source: Private Dwelling. Cn Ed crew noticed oil leaking into street and catch basin. Fuel oil coming from adjacent property. Status: Closed 04/30/1997. See Section D Site Details Pages 56-57.
- 181 Holbrook Road, 0.012 ESE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9614799 dated 04/30/1997. Spill Cause: Equipment Failure. Spill Source: Private Dwelling. Upopn removal of 550 gallon underground tank soil contamination was noticed. Status: Closed 04/30/1997. See Section D Site Details Pages 57-58.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301904 dated 12/152003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 12/15/2003. See Section D Site Details Pages 59-60.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301905 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 60-61.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301906 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 62-63.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #9201783 dated 05/12/1992. Spill Cause: Tank Test Failure. Spill Source: Private Dwelling. Tester Topped off tank for test and discovered leaks in vent below grade. Status: Closed 06/17/1992. See Section D Site Details Pages 64-65.

- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0605158 dated 08/03/2006. Spill Cause: Other. Spill Source: Private Dwelling. Status: Closed 08/03/2006. See Section D Site Details Pages 66-67.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9713480 dated 03/05/1998. Spill Cause: Housekeeping. Spill Source: Private Dwelling. Soil contamination found during tank removal. Status: Closed 04/20/1998. See Section D Site Details Pages 68-69.
- 298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301906 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 62-63.
- 309 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0410571 dated 05/15/2005. Spill Cause: Equipment Failure. Spill Source: Private Dwelling. The remote fill is faulty. Status: Closed 05/15/2005. See Section D Site Details Pages 70-71.
- Scarborough Road/Becker Road, 0.02 SSE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0208114 dated 11/05/2002. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. Truck broke line and spilled to ground. Status: Closed 11/06/2002. See Section D Site Details Pages 72-73.
- 155 Holbrook Road, 0.02 ENE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0509558 dated 11/09/2005. Spill Cause: Tank Failure. Spill Source: Private Dwelling. Found contamination while closing. Status: Closed 05/01/2006. See Section D Site Details Pages 74-75.
- Based on review of the regulatory database report, none of the listed off-site facilities are anticipated to adversely impact the Subject Site. No further action or investigation is recommended regarding the off-site regulatory review.

Adjoining & Surrounding Properties (Section 7)

- EAI identified no current adjacent or surrounding property uses that are anticipated to have a negative impact on the environmental integrity of the Subject Site. No further action or investigation is recommended regarding the adjacent properties.

1.2 FINDINGS, CONCLUSIONS, & RECOMMENDATIONS

- A ***Recognized Environmental Condition (REC)*** refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property, due to release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.
    - This assessment has revealed **no** evidence of RECs in conjunction with the subject property.
- ***Controlled Recognized Environmental Conditions (CRECs)*** are defined by the ASTM Standard Practice E1527-13 as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a NFA letter or equivalent, or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g. property use restrictions, AULs, institutional controls, or engineering controls).

    ➢ This assessment has revealed **no** evidence of CRECs in conjunction with the subject property.
- ***Historical Recognized Environmental Conditions (HRECs)*** are defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls).
    - This assessment **has revealed** evidence of HRECs in connection with the subject property
        - ➢ The facility boilers are dual-fuel type boilers (natural gas and fuel oil), and the three (3) electrical generators used at the site use #2 fuel oil as a source of power. Prior to 2005, fuel oils were stored in three (3) underground storage tanks, including a 300-gallon, 2,500-gallon, and 20,000-gallon tank located on the northern and western side of Building-C. As documented in the files and databases reviewed for this Phase I, these tanks had experienced overfilling and/or failed tank testing, and at the time of their closure were determined to have had releases of petroleum to soils in areas surrounding the tanks. Excavation of the tanks and petroleum impacts were hindered due to the proximity of building foundations and subsurface utilities. Two of the three fuel oil tanks were removed, and the larger 20,000-gallon tank was abandoned by filling the tank with a slurry of concrete. Although some soils were excavated during the tank closure, evidence of residual impacts were noted based on post-excavation sampling results and information provided in the closure reports. The tank closures were overseen by either the NYSDEC or the Westchester County Health Department, and the regulatory agency provided written notification to Philips that no further action was required to address residual impacts, and the spill files established for these tanks were subsequently closed.

            A fourth underground storage tank containing fuel oil was successfully removed from the Holbrook residence in 1998. Visual inspection of the tank at the time of closure indicated that it was in sound condition and post-excavations sampling completed during the removal did not detect petroleum impacts.

            Philips has replaced **all** its former underground storage tanks (USTs) with aboveground fuel storage tanks and equipment. The replacement tanks are registered and equipped with secondary containment; with the exception of the 500-gallon tank

serving one of the generators, which is an exemption from Westchester County. Currently, four ASTs are present at the site, including a 275-gallon fuel tank in the basement of the Holbrook residence, and a 500-gallon, 1,000-gallon, and 20,000-gallon AST located on the north and west sides of Building-C.

- In addition to the underground fuel oil storage tanks, Philips had installed and used a 1,000-gallon underground storage tank (UST) for gasoline storage. The tank was installed in 1989 and removed in 2004; the tank was located to the west of the maintenance garage. At the time of its closure, petroleum impacts were detected in residual soils. Both the tank and sixteen (16) cubic yards of impacted soil were removed during the closure completed in 2004. Post-excavation soil sampling detected residual impacts, and Westchester County Health Department requested that additional investigations be completed to evaluate groundwater. The remedial contractor attempted to collect groundwater samples, but due to the proximity of subsurface utilities and because groundwater was no encountered at depths up to 20 feet, Westchester County Health Department subsequently issued a no further action responses and closed the spill file for the gasoline tank.
- Between 1991 and 2013, fourteen (14) separate spill reports were filed for the Philips research facility. With the exception of a report of abandoned drums, the spills were all associated with releases of petroleum hydrocarbons. Some of the spills were associated with failed underground storage tank tightness testing, or associated with impacts identified during the closure of the USTs. These spills accounted for approximately 30% of the documented spill reports and were satisfactorily addressed through the removal of the former USTs (see HRECs above). In addition to the UST issues, several minor spills occurred during delivery of fuel to the site or spills that were reported to have been contained on the interior of the building. Three (3) larger spills occurred in 1996, 1997, and 2004 that were attributed to equipment malfunctions that resulted in the release of fuel oils that were significant enough to require soil remediation. In addition, petroleum impacts were reported in 1991 during exaction of a new building foundation. Information regarding these spills was generally limited, and post-remedial sampling at the time of the cleanup does not appear to have been completed. However, all of the reported spills included some level of regulatory oversight, and the spill file for each of the fourteen (14) documented releases were noted to be closed, suggesting that the remediation was completed to the satisfaction of the applicable regulatory agency.

- ***De Minimis Conditions***: Findings which would otherwise be characterized as Recognized Environmental Conditions, but which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies are classified as *de minimis* in accordance with the agreed scope of work. De Minimis Conditions are not considered RECs.
  - This assessment **has revealed** evidence of de minimis environmental conditions in connection with the subject property related to motor oil staining in the parking lot associated with previously parked vehicles. Staining on the roof and sub-level mechanical areas are likely associated with property and equipment operations and repairs. The observed staining does not appear to be significant or pervasive.

EAI observed significant quantities of mechanical equipment including boilers, cooling towers, chillers, water filtration tanks, and air handlers that may contain hazardous materials or oils. Building equipment will require decommissioning prior to building development.

2. SURVEY APPROACH/PURPOSE

EAI conducted an on-site Environmental Site Assessment of the Subject Site that consisted of a walk-through observation of the accessible areas and interviews with facility personnel and local agency representatives. On-site activities and/or interviews were conducted by Mr. Alexander Friedman, EP.

Areas accessed included all interior and exterior areas, and the Subject Site boundaries.

Visual observation above the dropped ceiling tiles (if any) was not performed as a part of this assessment.

Visual observation of pipe chases and behind walls was not performed as a part of this assessment. No evidence of pipe chases was identified during this assessment.

Weather conditions at the time of the Subject Site assessment were clear.

EAI reviewed available federal, state, and local records in an effort to identify sites of known or suspected hazardous waste activity located at or near the Subject Site which could have an adverse impact on the Subject Site. In an attempt to determine whether historical uses of the Subject Site and surrounding area have had an environmental impact on the Subject Site, EAI interviewed individuals knowledgeable about the Subject Site and reviewed available pertinent records and documents. This assessment is based on the evaluation of the information gathered, laboratory analysis of samples collected (when required), and accessibility at the time of the assessment.

The purpose of this report is to provide the Client an assessment concerning environmental conditions (limited to those issues identified in the report) as they existed in the Subject Site. The further purpose of this Phase I Environmental Site Assessment is to defend the innocent landowner in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) for commercial real estate and to assert landowner liability protections under CERCLA. The assessment was conducted utilizing generally accepted Phase I industry standards using the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13 Scope of Work. The scope of work included an evaluation of:

- The Subject Site history in an attempt to identify any possible ownership(s) and/or uses that would suggest an impact to the environmental integrity of the Subject Site as identified through review of reasonably ascertainable standard historical sources.
- Physical characteristics of the Subject Site as identified through review of reasonably ascertainable topographic, wetlands, flood plain, soils, geology, and groundwater data.
- Current Subject Site conditions (as applicable), including compliance with appropriate regulations as they pertain to the presence or absence of:
  - Facility storage tanks, drums, containers (above or below ground), etc.
  - Transformers and other electrical equipment which utilize fluid which may potentially contain PCBs.
  - The use of hazardous materials/chemicals and petroleum products, and/or the generation, treatment, or disposal of hazardous, regulated, or medical wastes.
- A screening approach for the potential existence of:

- Asbestos, including the identification of all suspect materials in accessible areas (interior and exterior). Materials are considered suspect until tested and proven otherwise. Friable materials are those which can be easily crumbled or pulverized by hand pressure.

  This screening approach is not a comprehensive (i.e., AHERA-Style) asbestos survey, nor is it intended to fulfill the NESHAP requirements for demolition/renovation purposes, but is intended to identify the potential for an asbestos hazard in accessible areas. This screening is not intended to be used for demolition, abatement, renovation, or repair work.

  The basis for "suspect" determination is taken from the materials listed in Appendix G of the United States Environmental Protection Agency (USEPA) publication *Managing Asbestos in Place*.

- Mold, including the identification of visible mold growth, conditions conducive for mold growth, and evidence of moisture in accessible areas of the Subject Site. In addition, EAI interviewed Site personnel regarding any known or suspected mold contamination, water intrusion, or mildew like odor problems. Sampling was not performed as part of this assessment. EAI notes that the conclusions made are based solely on observable conditions in readily accessible interior areas of the Subject Site on the assessment date.

- An evaluation of information contained in programs such as the NPL, SEMS, RCRIS, SWL, LUST, RCRA NLR, RCRA TSD, the Registered Underground and Aboveground Storage Tank Database, FINDS, ERNS, State Sites, Spills, NPDES, and other governmental information systems within specific search distances of the Subject Site. This evaluation was performed to identify any sites that would have the potential to impact the environmental integrity of the Subject Site.

  The regulatory agency report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The report is based on a radius search which focuses on both the Subject Site and neighboring sites that may impact the Subject Site. Neighboring sites listed in governmental environmental records are identified within a specific search distance. The search distance varies depending upon the particular government record being checked. The search is designed to meet the requirements of the new ASTM Standard E 1527-13, which is recognized by EPA as being consistent with the AAI Rule. The information provided is assumed to be correct and complete.

- Visual observation of the adjacent properties to identify high risk neighbors and the potential for known or suspected contamination to migrate onto the Subject Site.

3. LIMITATIONS & METHODOLOGY

Criteria for the identification of Recognized Environmental Conditions vary substantially across the industry. Some Environmental Professionals identify Recognized Environmental Conditions whenever there is a possibility of impact to a property, while others recognize Recognized Environmental Conditions only when presented with direct evidence that a release has occurred. The ESA Standard defines a REC in terms of the "presence or likely presence" of any hazardous substances or petroleum products **in, on, or at** a property: (1) due to any **release** to the **environment**; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. By this definition, the mere possibility of a release fails to fulfill the definition of a REC. A requirement for the discovery of direct evidence before identification of a REC is equally unsupportable. EAI considers both the known and likely presence and release of hazardous materials in identifying Recognized Environmental Conditions.

The following table presents a summary of the individuals contacted or to whom requests for documentation were made as part of this assessment:

Name	Affiliation	Telephone No.
Fawzy Abdelsack	NYS Dept of Env Conservation	718-482-4949
	City of Yonkers	845-357-8111
Mike Gandolfo	EDR-Environmental Data Resources	800-352-0050
Mike Gandolfo	Sanborn Fire Insurance Maps	800-352-0050
Al Borrelli	Site Representative	

4. SUBJECT SITE LOCATION/DESCRIPTION

The subject property located at 345 Scarborough Road, Briarcliff Manor, NY 10510 in Westchester County, is bound by Holbrook Road, Martin Road, Fuller Road and Magnolia Road. The subject property location is: Longitude: 73.856172 and Latitude: 41.151531. The subject property is improved with four (4) lots consisting of a vacant research facility and a closed residential building. **The Site is currently unoccupied and in poor condition throughout. The facility is non-functioning as utilities have been closed and all mechanical systems are inactive.**

4.1. SUBJECT SITE DESCRIPTION & GENERAL SITE CONDITIONS

Any evaluations of the physical site and its respective building components are subjective. Although the Subject Site conditions are not directly hinged to the environmental status of the subject property, one is generally a reflection of the other. The actual Subject Site, building, and its components are outlined below.

The 98-acre Site located at 345 Scarborough Road in Briarcliff Manor, NY comprises four lots (lots 1, 9, 10, 11). The Site is improved with a residential building and garage on Lot 11 and the former Philips Research Facility on Lot 1 (345 Scarborough Road). The Research Facility consists of four main interconnected buildings designated as Buildings A, B, C, and D. The property is accessed by a private drive known as Shadow Brook Lane. Asphalt paved parking is present to the north and south of the Research Facility. The remainder of the Site is either grass field or wooded. A water and power easement is present in the area occupied by Shadow Brook Lane and a sewer easement runs north/south through the northern portion of Lot 9. **The Site is currently unoccupied and in poor condition throughout.**

The Subject Site is serviced by public water and sanitary sewer systems.

4.1.1 Utilities

The Subject Site is serviced with the following utilities:

Water	Village of Briarcliff Manor
Sanitary Sewer	Ossining Sewer District
Storm Sewer	Ossining Sewer District
Electric	Con Edison
Natural Gas	Con Edison

4.2. ENVIRONMENTAL SETTING

4.2.1 Wetlands

Review of the New York State Freshwater Wetlands Map, published by the New York State Department of Environmental Conservation (NYSDEC) and dated February 23, 1987, indicated no wetlands areas at or near the Subject Site.

A copy of the wetlands map was not available for reproduction.

4.2.2 Floodplain

Review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency (FEMA) and dated February 15, 1991, indicated the following:

The Subject Site is located in Zone X, areas outside the 500-year flood plan with less than 0.2% annual probability of flooding. A copy of the Floodplain Map is enclosed in Section G-Documents.

4.2.3 Soils/Geology

Interviews with personnel of the United States Department of Agriculture Soil Conservation Service (USDA SCS) indicated that no soil survey has been published for Westchester County, New York. However, based upon the long-term and intense development in New York, the soil in the vicinity of the Subject Site would likely be characterized as part of the Urban Land Complex:

The urban land complex indicates that the predominant soil type has been disturbed and covered with an impervious layer consisting of buildings, sidewalks, streets, and other structures. No capability sub-classifications are assigned to urban land. The soil surface texture is variable and depth to bedrock is > 10".

4.2.4 Groundwater Hydrology

Review of the Water Resources Data Report for New York State, published by the USGS, indicated the following:

Shallow groundwater flow is expected to follow the ground level slope of surface elevations towards the nearest open body of water or intermittent stream.

Estimated groundwater levels may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

The United States Geological Survey (USGS) monitors water supply and establishes the parameters for safe water flow. The Department of Environmental Protection safeguards these resources by enforcing the legislation created to protect our water supply. Governmental Database Records Review did not reveal any spills that may have compromised ground water.

Any conclusions drawn in this report regarding groundwater and soil are based upon observation and records review and are therefore limited in scope and usefulness.

The water supply at the site was not tested and is not a component of this Phase I assessment.

5. HISTORICAL REVIEW

Within the scope of this assessment, EAI has attempted to establish the past uses of the subject property. The range of this study is from present back to 1940 or when property was first used for residential, agricultural, commercial, industrial, or governmental purposes. This is accomplished by use of Sanborn Fire Insurance Maps and through reasonable ascertainable records, interviews with tenants, past owners, neighbors or any other available standard historical sources.

The review of the historical data available for the Subject Site and surrounding area identified James Speyer owned approximately 130-acres, inclusive. Of the study Site boundary, from the 1890s to 1946. The Speyer property was known as Waldheim and was used as a family estate with a portion developed as a golf course. The Site was likely undeveloped or used for residential/agricultural purposes prior to the 1890s. In 1946, the Site was purchased by David Swope who intended to develop the property for residential purposes. Swope subdivided and developed some of the property for residential purposes prior to selling the property to Philips North America (Philips).

Philips acquired the Swope property and an additional parcel (Lots 10 & 11) to make up the current Site boundary in 1960. Philips constructed th research facility and began operations in 1964. The initial construction consisted of Buildings A and B, with th addition of Building C in 1980, and Building D in 11988. Philips used the Site for research and office space until 2015 when operations were transferred to other locations. The Site was vacant during the site reconnaissance.

Based on the City Directories review, the buildings at the site were residential from 1972-2017. See Section 5.6. on Page 22 in this report and Section F Sanborn Maps.

5.1. RECORDS REVIEW

There are several state and federal agencies responsible for collecting environmental information, which is available in the form of databases. The database information searched in this site assessment include priority listings of sites with known or suspected contamination, facilities that generate, treat, store, and/or dispose of hazardous waste, solid waste facilities, underground storage tank sites, leaking underground storage tank sites, and spill incident sites. Each database has a standard search distance from the subject property within which any listing must be addressed.

The standard search distances are set by the ASTM Guideline E1527-13, required to satisfy a diligent attempt at discovering potential environmental concerns. The database information reviewed, along with the associated search distances, is provided in Section D.

The results of the database searches are summarized in the table below:

Database Searched	Search Distance	Sites Identified for Subject Site	Sites Identified for Surrounding Properties	Surrounding Property Potential to Impact the Subject Site
Federal Databases				
NPL	1.0 miles	0	1	Not expected to pose an adverse impact

SEMS Facilities	0.5 miles	0	0	N/A
RCRA Generator	0.25 miles	1	3	Not expected to pose an adverse impact
RCRA COR ACT	1.0 miles	0	0	N/A
RCRA TSD	0.5 miles	0	0	N/A
State & Tribal Databases				
State/Tribal SWL	0.5 miles	0	1	Not expected to pose an adverse impact
Registered UST & AST	0.25 miles	0	16	Not expected to pose an adverse impact
Leaking Underground Storage Tank	0.5 miles	2	87	Not expected to pose an adverse impact
ERNS	Subject Site only	0	N/A	N/A
Spills	0.125 miles	3	22	Not expected to pose an adverse impact

Additional database searches are provided in the Search Summary Report of the EDR FirstSearch Report.

5.1.1 Superfund Enterprise Management System (SEMS)

Hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the Unites States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The database is a compilation by the United States EPA of sites that the EPA has investigated, or is currently investigating for a release of hazardous substances pursuant to the Superfund Act.

Based on the search of the SEMS Facilities Database, zero (0) sites were identified within a half (1/2) mile radius of the subject property.

5.1.2 RCRA Generator Site

Resource Conservation and Recovery Information System Large and Small Quantity Generators.

Based on this search, three (3) sites were identified within a quarter (1/4) mile radius of the subject property.

These sites do not appear to pose an adverse environmental impact to the Subject Site.

5.1.3 RCRA COR ACT

Resource Conservation and Recovery Information System Corrective Action Sites. The EPA's database of RCRIS sites with reported corrective action. This information is also reported in the standard RCRIS detailed data.

Based on this search, zero (0) sites were identified within a one (1) mile radius of the subject property.

5.1.4 RCRA TSD

Resource Conservation and Recovery Information System Treatment, Storage, and Disposal Facilities. The EPA's database of RCRIS sites which treat, store, dispose, or incinerate hazardous waste. This information is also reported in the standard RCRIS detailed data.

Based on this search, zero (0) sites were identified within a half (1/2) mile radius of the subject property.

5.1.5 State/Tribal SWL

The Active Solid Waste Landfill Database (SWL) is maintained by state or local agencies of Solid Waste Landfills, Incinerators, and Transfer Stations.

Based on this search, one (1) site was identified within a half (1/2) mile radius of the subject property.

This site does not appear to pose an adverse environmental impact to the Subject Site.

5.1.6 Registered Underground & Aboveground Storage Tank Database

The New York State Department of Environmental Conservation (NYSDEC), maintains a list of all registered underground (USTs) and above ground storage tanks (ASTs) within the state. The NYSDEC regulates the storage and handling of petroleum storage facilities. Aboveground and Underground storage tanks storing petroleum can, if not properly installed and maintained, cause serious environmental problems, including contamination of a water supply. In an effort to prevent leaks and spills, the Petroleum Bulk Storage Law (Article 17, Title 10 of the Environmental Conservation Law) requires the DEC to develop and enforce a State Code for the storage and handling of petroleum. The resulting regulations are Parts 612, 613 and 614. Any facility with a stationary tank combined capacity exceeding 1100 gallons must be registered with the New York State Department of Environmental Conservation.

Based on the search of the Registered Underground Storage Tank Database, sixteen (16) sites were identified within a quarter (1/4) mile radius of the subject property.

None of these database sites appear to pose an adverse environmental impact to the Subject Site.

5.1.7 Leaking Underground Storage Tank Database

The New York State Department of Environmental Conservation (NYSDEC) maintains a list of facilities that are known to have had leaking underground storage tanks (LUSTs) within the state.

The Subject Site is listed on the NY LTanks database, Spill #9207085 dated 08/27/1993. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Material spilled from tank test. Status: Closed 08/27/1993. See Section D Site Details Pages 11-12.

The Subject Site is listed on the NY LTanks database, Spill #9605979 dated 08/08/1996. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Contaminated soil removed. Status: Closed 01/07/1997. See Section D Site Details Pages 12-14.

The Subject Site is listed on the NY LTanks database, Spill #0205462 dated 08/24/2002. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Tank to be retested. Status: Closed 09/26/2002. See Section D Site Details Pages 45-46.

The Subject Site is listed on the NY LTanks database, Spill #0403556 dated 07/02/2004. Spill Cause: Tank Test Failure. Spill Source: Non Major Facility >1,100-gallons. Tank passed retest after piping was repaired. Company to excavate the tank top. Status: Closed 12/10/2004. See Section D Site Details Pages 46-47.

The Subject Site is listed on the NY LTanks database, Spill #9108436 dated 11/07/1991. Spill Cause: Tank Failure. Spill Source: Commercial/Industrial. While excavating new foundation encountered oil contaminated soil. See Section D Site Details Pages 47-48.

100 Holbrook Road, 0.012 ESE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #002631 dated 01/06/2000. Spill Cause: Tank Test Failure. Spill Source: Private Dwelling. Tank failed the test. Status: Closed 10/04/2000. See Section D Site Details Pages 54-

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301904 dated 12/152003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 12/15/2003. See Section D Site Details Pages 59-60.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301905 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 60-61.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301906 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 62-63.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #9201783 dated 05/12/1992. Spill Cause: Tank Test Failure. Spill Source: Private Dwelling. Tester Topped off tank for test and discovered leaks in vent below grade. Status: Closed 06/17/1992. See Section D Site Details Pages 64-65.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0301906 dated 05/22/2003. Spill Cause: Tank Test Failure. Spill Source: Commercial/Industrial. Status: Closed 11/19/2003. See Section D Site Details Pages 62-63.

155 Holbrook Road, 0.02 ENE of the Subject Site (**off-site**), is listed on the NY LTanks database, Spill #0509558 dated 11/09/2005. Spill Cause: Tank Failure. Spill Source: Private Dwelling. Found contamination while closing. Status: Closed 05/01/2006. See Section D Site Details Pages 74-75.

Based on the search of the Leaking Underground Storage Tank Database, eighty-seven (87) sites were identified within a half (1/2) mile radius of the subject property.

Based on the current regulatory oversight/status, the relative distance and/or the inferred direction of groundwater flow, these sites are not expected to represent a significant environmental concern.

5.1.8 ERNS Database

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the United States Coast Guard, the National Response Center, and the Department of Transportation.

Based on the search of the ERNS Database, the Subject Site is not listed.

5.1.9 Spills – 1990

The Subject Site is listed on the NY Spills database, Spill #0701008 dated 04/20/2007. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. Spill on concrete pad and soil; soil has been removed and placed in drums. Status: Closed 12/10/2007. See Section D Site Details Pages 5-6.

The Subject Site is listed on the NY Spills database, Spill #9211458 dated 01/06/1993. Spill Cause: Human Error. Spill Source: Commercial/Industrial. Manhole cover on top of tank was left open; spill contained on top of tank. Status: Closed 01/07/1993. See Section D Site Details Pages 6-7.

The Subject Site is listed on the NY Spills database, Spill #9503630 dated 06/23/1995. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. See Section D Site Details Pages 7-8.

The Subject Site is listed on the NY Spills database, Spill #9703570 dated 06/23/1997. Spill Cause: Equipment Failure. Spill Source: Institutional, Educational, Gov., Other. A float stuck causing day tank to overflow through the vent line onto soil. Status: Closed 11/10/1997. See Section D Site Details Pages 8-9.

The Subject Site is listed on the NY Spills database, Spill #0410334 dated 12/17/2004. Spill Cause: Equipment Failure. Spill Source: Non Major Facility >1,100-gallon. Found contaminated soil. Status: Closed 11/05/2009. See Section D Site Details Pages 9-10.

The Subject Site is listed on the NY Spills database, Spill #1308235 dated 11/13/2013. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. 10 gallons spilled in the boiler room, all contained to the concrete floor. Status: Closed 11/13/2013. See Section D Site Details Pages 40-41.

The Subject Site is listed on the NY Spills database, Spill #9109356 dated 11/29/1991. Spill Cause: Abandoned Drums. Spill Source: Institutional, Educational, Gov., Other. Complaints of drums leaking at lab. Kids playing in the area were exposed. Status: Closed 03/17/1992. See Section D Site Details Pages 42-43.

The Subject Site is listed on the NY Spills database, Spill #9614999 dated 03/27/1997. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. About one pint leaked when a hose broke. Status: Closed 03/28/1997. See Section D Site Details Pages 43-44.

The Subject Site is listed on the NY Spills database, Spill #9513598 dated 01/26/1996. Spill Cause: Equipment Failure. Spill Source: Commercial/Industrial. Broken deck hose from the front of the trailer to the pump. Spill cleaned up by driver. Status: Closed 01/26/1996. See Section D Site Details Pages 52-53.

181 Holbrook Road, 0.014 NE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9608347 dated 10/03/1996. Spill Cause: Unknown. Spill Source: Private Dwelling. Cn Ed crew noticed oil leaking into street and catch basin. Fuel oil coming from adjacent property. Status: Closed 04/30/1997. See Section D Site Details Pages 56-57.

181 Holbrook Road, 0.012 ESE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9614799 dated 04/30/1997. Spill Cause: Equipment Failure. Spill Source: Private Dwelling. Upon removal of 550 gallon underground tank soil contamination was noticed. Status: Closed 04/30/1997. See Section D Site Details Pages 57-58.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0605158 dated 08/03/2006. Spill Cause: Other. Spill Source: Private Dwelling. Status: Closed 08/03/2006. See Section D Site Details Pages 66-67.

298 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #9713480 dated 03/05/1998. Spill Cause: Housekeeping. Spill Source: Private Dwelling. Soil contamination found during tank removal. Status: Closed 04/20/1998. See Section D Site Details Pages 68-69.

309 Scarborough Road, 0.02 SE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0410571 dated 05/15/2005. Spill Cause: Equipment Failure. Spill Source: Private Dwelling. The remote fill is faulty. Status: Closed 05/15/2005. See Section D Site Details Pages 70-71.

Scarborough Road/Becker Road, 0.02 SSE of the Subject Site (**off-site**), is listed on the NY Spills database, Spill #0208114 dated 11/05/2002. Spill Cause: Equipment Failure. Spill Source: Commercial Vehicle. Truck broke line and spilled to ground. Status: Closed 11/06/2002. See Section D Site Details Pages 72-73.

Based on the search of the New York State Department of Environmental Conservation's database, twenty-two (22) sites were identified within an eighth (1/8) mile radius of the subject property. None of these sites are located on or adjacent to the Subject Site.

Based on the current regulatory oversight/status, the relative distance and/or the inferred direction of groundwater flow, these sites are not expected to represent a significant environmental concern.

5.1.10 Federal & State Priorities Database

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial action under the Superfund Program. In order for a site to be included on the NPL List, it must either meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet all of the three (3) following criteria:

1. The United States Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure.
2. The EPA determines that the site represents a significant threat.
3. The EPA determines that remedial action is more cost-effective than removal action.

Based on the search of the NPL database, zero (0) sites were identified within a one (1) mile radius of the subject property.

5.2. INTERVIEWS

Interview with Owner
An interview with the property owner was not conducted as part of this Phase I Site Assessment.

Interview with Site Manager
An interview with the site manager was not conducted as part of this Phase I Site Assessment.

Interviews with Occupants
During the course of the site inspection, several occupant interviews were conducted. None of the interviewees provided EAI with any indications of existing or potential RECs at the subject property.

Interviews with Others
An interview was conducted with Al Borrelli, site representative, who indicated no knowledge of any recognized environmental conditions or liens existing at the subject property or adjacent properties. (See user questionnaire in Documents Section G)

Title Records
EAI requested title records from the User; however, title records were not provided to EAI for review. A title report was not included in the scope of work for this assessment.

Environmental Liens or Activity and Use Limitation
EAI requested information from the User regarding knowledge of environmental liens, activity, and use limitations for the property. The site contact was not aware of any environmental liens associated with the property. In addition, the site contact had no knowledge of any use or activity limitations.

Specialized Knowledge
EAI inquired with the site contact regarding any specialized knowledge of environmental conditions associated with the property. No special conditions were reported.

Commonly Known or Reasonably Ascertainable Information
EAI inquired with the user regarding any specialized knowledge of environmental conditions associated with the property. EAI inquired with the site contact regarding any specialized knowledge of environmental conditions associated with the property. No conditions were reported.

Valuation Reduction for Environmental Issues
EAI inquired with the site contact regarding any knowledge of reductions in property value due to environmental issues. The site contact was not aware of any valuation reductions associated with the property.

Owner, Property Manager and Occupant Information
According to a review of records, the property owners are identified as Ridgewood Briarcliff Owners LLC. The property is currently occupied by a vacant office building which housed the former Philips Research Facility and a residential building.

Reason for Performing Phase I ESA

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E-1527-13) in connection with the property. This ESA was also performed to permit the User to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner, or bona fide prospective purchaser* limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs"*). ASTM Standard E-1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C §9601 (35) (B).

EAI understands that the findings of this study will be used by YSG Community Solar to evaluate a pending financial transaction in connection with the property.

Prior Environmental Reports
EAI reviewed a Phase I Site Assessment dated 05/2017 by GZA GeoEnvironmental, Inc. The Phase I revealed no evidence of RECs or CRECs in connection with the Subject Site.

EAI reviewed a Phase I Site Assessment dated 09/08/2016 by Haley & Aldrich of New York. The Phase I only revealed three (3) HRECs pertaining to tank removals and spill closures.

Other
According to the user, the purpose of this assessment is to qualify for an LLP to CERCLA liability. In addition to satisfying one of the requirements to qualify for an LLP to CERCLA liability, another reason for performing a *Phase I Environmental Site Assessment* includes the need to understand potential environmental conditions that could materially impact the operation of the business associated with the parcel of commercial real estate.

5.3. LOCAL GOVERNMENT AGENCY RECORD REVIEW

EAI reviewed file information for the Subject Site. This review indicated that the buildings at the subject property were originally developed in late 1940s, 1964, and 1964-1988. General building permits for the Subject Site were on file, but did not reveal any information or condition that could impact the environmental integrity of the Subject Site. No environmentally significant information was identified.

A **F.O.I.L.** request was submitted to the New York State Department of Environmental Conservation, Westchester County Department of Health, and City of Yonkers Fire Department & Department of Housing & Buildings regarding any violations, etc. at the Subject Site and

surrounding areas. To date, we have not received a response. Upon receipt, any additional relevant information will be forwarded. (See Section G – Documents)

Through EDR's data search, Sanborn Maps, and interviews, no significant regulatory files or records associated with the property or adjacent properties were found that would warrant additional investigation, and based on the quality of information obtained from those sources, no additional agency file review is warranted.

5.4. TOPOGRAPHIC MAPS

EAI reviewed a historical USGS *Ossining, NY/Haverstraw, NY 7.5* Minute Series topographic map of the Subject area provided by EDR dated 2019. The topographic map does not identify individual buildings or development on the Subject due to the concentration of structures in the highly urbanized Westchester area, but rather shows the area to be shaded denoting urbanized land use and identifies only landmarks as distinct structures. Nevertheless, the topographic map does not identify any industrial complexes, landfills, or wetlands on or adjacent to the Subject Site. A copy of the map is enclosed in Section C. Target Property Topography: General Topographic Gradient is: General West and the Target Property Elevation is 216 ft above sea level.

Available topographic maps from EDR were reviewed for this ESA dated 1892, 1893, 1902, 1936, 1938, 1943, 1955, 1967, 1979, 2013 2016, and 2019. Copies of selected maps are included in Section F. The following pertinent details were obtained from review of the report:

Year(s)	***Quad***	***Subject Property Description***	***Surrounding Site Descriptions***
1892, 1893, 1902	Tarrytown	One structure is depicted at the central portion and one structure is on the norther site boundary.	Contour lines, roadways, water bodies and residential-type structure depicted.
1936, 1938	Ossining, Haverstraw	Two structures are depicted centrally located. "Old Croton Aqueduct" depicted along the western site boundary.	Contour lines, roadways, water bodies and residential-type structure depicted.
1943	Ossining	Eight small structures are depicted.	Contour lines, roadways, water bodies and residential-type structure depicted and a waterbody adjacent to the west.
1955	Ossining, Haverstraw	Three small structures are depicted.	Contour lines, roadways, water bodies and residential-type structure depicted and a waterbody adjacent to the west.
1967	Ossining, Haverstraw	Philips Research building depicted.	Shaded area west, north, and northeast indicate densely built- up area.
1979	Ossining, Haverstraw	Philips Research building depicted and three additional improvements.	No significant changes from prior map.
2013	Ossining, Haverstraw	No site features depicted.	Street names are imprinted. No structures are shown.
2016	Ossining, Haverstraw	Shadow Brook Lane is depicted on the subject property.	Street names are imprinted. No structures are shown.

2019	Ossining, Haverstraw	Shadow Brook Lane is depicted on the subject property.	Street names are imprinted. No structures are shown.

5.5. HISTORICAL MAPS

EAI reviewed available Sanborn Maps as provided by EDR/First Search. Historical maps are detailed scale drawings that show the location and use of buildings and structures that occupied a given area. EAI's map search revealed the following:

YEAR	SUBJECT PROPERTY	SURROUNDING PROPERTY
1933	*2 ½ - STORY DWELLING AND THREE 1-STORY STRUCTURE* *JAS SPEYER WALDHEIM"* *CITY OF NY WATER SUPPLY*	*RESIDENTIAL*
1939	*2 ½ - STORY DWELLING AND THREE 1-STORY STRUCTURE* *JAS SPEYER "WALDHEIM"* *CITY OF NY WATER SUPPLY*	*RESIDENTIAL*
1942	*GARAGE, STABLES, GOLF COURSE*	*RESIDENTIAL*
1965	*2-STORY BUILDING, PHHILIPS LABORATORIES* *1-STORY GARAGE, PARKING*	*RESIDENTIAL*

Copies of the above-referenced historical maps are appended (Section F).

Available aerial photographs from EDR were reviewed for this ESA dated 1934, 1949-1951, 1959-1963, 1966-1970, 1972, 1980, 1985, 1991 1995, 2005, 2008, and 2012, 2106. Copies of selected photographs are included in Section F. The following pertinent details were obtained from review of the report:

Year(s)	*Subject Property Description*	*Surrounding Area Descriptions*	*Scale*
1953	Wooded & cleared land with some structures	Wooded and residential development	1"=500'
1957	Wooded & cleared land with some structures	No significant changes	1"=500'
1961	Wooded & cleared land with some structures	No significant changes	1"=500'
1965	Philips Research facility	Increase in residential development	1"=500'
1974-1976	Philips Research facility with associated parking	Increase in residential development	1"=500'
1985	Two buildings are visible on the subject property	No significant changes depicted	1"=500'
1989	The subject property is depicted in its current configuration with associated parking	No significant changes depicted	1"=500'
1994	The subject property is depicted in its current configuration with associated parking	No significant changes depicted	1"=500'
2006	The subject property is depicted in its current configuration with associated	No significant changes depicted	1"=500'

	parking		
2009	The subject property is depicted in its current configuration with associated parking	No significant changes depicted	1"=500'
2013	The subject property is depicted in its current configuration with associated parking	No significant changes depicted	1"=500'
2017	The subject property is depicted in its current configuration with associated parking	No significant changes depicted	1"=500'

5.6. CITY DIRECTORY

City Directories have been produced for most urban and some rural areas since the late 1800s. The directories are generally not comprehensive and may contain gaps in time periods.

EAI reviewed Historical City Directories obtained from EDR on March 15, 2022, for past names and businesses that were listed for the subject property and adjoining properties. This review revealed the following listings associated with the subject property:

- **Prior to 1972** – City Directories were not available.
- **1972-2017 -** The current property address is listed as numerous residential tenants.

The adjacent properties listed have been utilized as residential/commercial units from 1972-2017.

No environmentally significant listings were identified for adjacent properties.

Copies of reviewed City Directories are included in Section F.

5.7. DATA GAPS

No significant data gaps were encountered during completion of this assessment. Data gaps occur when, despite good faith efforts, the consultant is unable to identify information required to satisfy objectives of the assessment. Data gaps may result from incompleteness in any of the activities required by the ESA Standard, or by limiting conditions encountered during completion of the work. The ESA Standard requires that data gaps be identified in the report when they significantly impact the ability of the consultant to identify Recognized Environmental Conditions at the property. Limiting conditions identified in this report are not considered to significantly impact our ability to satisfy the objectives of this assessment.

DATA FAILURE

No Data Failure was encountered during the completion of this assessment. The earliest research date was 1940 or earlier and the property was undeveloped at that time. Research intervals of more than five years were encountered during our review of historical sources, however, activities at the property were found to be consistent at the beginning and end of these extended research intervals. In accordance with ASTM criteria, such intervals do not constitute data failure. The following data gaps occurred in connection with this report:

Data Gap	Explanation	Significance of Gap
Site History	Site history not conducted in 5-year intervals	Low: Not likely to alter Report's conclusions due to EAI's search of standard historical sources of information such as historic topographic maps, city directory abstracts, Sanborn Fire Insurance Maps, and interviews with knowledgeable individuals who were familiar with the property.

Former Owner or Operator Interview	Unable to interview former site owner or operator due to inability to locate	Low: Not likely to alter Report's conclusions.
Governmental Records	FOILs not returned	Unknown: However, if receipt of FOILs alters the Report's conclusion, the client will be notified.

5.8. HISTORICAL SUMMARY

The review of the historical data available for the Subject Site and surrounding area identified James Speyer owned approximately 130-acres, inclusive. Of the study Site boundary, from the 1890s to 1946. The Speyer property was known as Waldheim and was used as a family estate with a portion developed as a golf course. The Site was likely undeveloped or used for residential/agricultural purposes prior to the 1890s. In 1946, the Site was purchased by David Swope who intended to develop the property for residential purposes. Swope subdivided and developed some of the property for residential purposes prior to selling the property to Philips North America (Philips).

Philips acquired the Swope property and an additional parcel (Lots 10 & 11) to make up th current Site boundary in 1960. Philips constructed th research facility and began operations in 1964. The initial construction consisted of Buildings A and B, with th addition of Building C in 1980, and Building D in 11988. Philips used the Site for research and office space until 2015 when operations were transferred to other locations. The Site was vacant during the site reconnaissance.

Based on the City Directories review, the site was residential from 1972-2017. See Section 5.6. on Page 21 in this report and Section F Sanborn Maps.

6. SUBJECT SITE RECONNAISANCE

6.1. OPERATIONAL ACTIVITES/NOTEWORTHY TENANTS

The Subject Site consists of a vacant office building which housed the former Philips Research Facility and a residential building

No environmentally significant operations are conducted at the Subject Site.

6.2. HAZARDOUS MATERIALS/PETROLEUM PRODUCTS STORAGE AND HANDLING

Visual observation for the use and/or storage of hazardous materials and petroleum products was performed. No hazardous materials/petroleum was identified.

The Subject Site is involved in the use of hazardous materials in the form of routine janitorial and maintenance supplies. The materials observed do not appear to pose a hazard to the site, provided they continue to be used as designed, are properly handled, and all regulations regarding their use are followed.

No evidence of spills or staining was observed in the Subject Site. In addition, the floors appeared intact and no cracks were observed.

6.3. WASTE GENERATION, TREATMENT, STORAGE, AND DISPOSAL

Visual observation for the generation, treatment, storage and disposal of wastes was performed. The Subject Site is not involved in the generation, treatment, storage, or disposal of hazardous, medical or regulated wastes as defined in the Code of Federal Regulations, Title 40 (Protection of Environment); Part 270 (EPA Administered Permit Programs: The Hazardous Waste Permit Program); Subpart A (General Information); Section .2 (Definitions) of hazardous waste as defined in the Code of Federal Regulations Title 40 (Protection of Environment); Part 261 (Identification and listing of Hazardous Waste); Subpart A (General); Section .3 (Definition and Hazardous Waste), thereby, subjecting the property to the requirements of the Code of Federal Regulations, title 40 (Protection of Environment); Part 265 (Interim Status Standards of Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities).

No excessive odors or overflowing/excessive ground trash and no hazardous, regulated, or medical wastes were noted in the vicinity of the disposals.

No further action or investigation is recommended regarding waste generation, treatment, storage and disposal at the Subject Site.

6.4. POLYCHLORINATED BIPHENYLS

No equipment with the potential to contain dielectric or hydraulic fluid was identified. A common source for polychlorinated biphenyls (PCBs) is in the cooling fluids of electrical transformers, capacitors and hydraulic equipment. PCB content is regulated under the US EPA regulation 40 CFR, Part 761 with provisions for varying degrees of toxicity. Based on the visual inspection, there are no capacitors located on the subject property at this time.

Two (2) electric transformers on pad were observed west of Building-C. No labeling was observed.

One hydraulic elevator associated with Building-C is not in service.

No further action or investigation is recommended regarding PCBs at the Subject Site.

6.5. ASBESTOS CONTAINING MATERIALS

214 samples of suspect ACM were collected by GZA Environmental May 8-9 of 2017. In addition, an ACM survey report was performed by Warren Panzer Engineering in March of 1989.

According to the Environmental Protection Agency and included in the publication #EPA560/5-85-024 “Guidance for Controlling Asbestos Containing Materials (ACM) in Buildings” asbestos containing materials are found in three forms: (1) Sprayed or toweled on ceilings and walls and structural steel; (2) in insulation around hot and cold piping, ducts, boilers, and tanks; and (3) in a non-friable state in products such as ceilings and floor tiles, wallboards and outside materials such as shingles and roofing materials. In general, ACM in the first two categories is of greatest concern, especially if it is friable, causing the materials to release fibers into the air.

Since the subject buildings were built prior to 1979, there exists the possibility that the original construction materials used may contain asbestos. If any demolition or remodeling activities are to occur in the buildings, a detailed asbestos survey should be conducted to determine if any of the materials contain asbestos. If any of the materials do contain asbestos, they should be removed and disposed of in accordance with all applicable Federal, State, and Local Regulations prior to any demolition or remodeling activities.

Ceiling, floor tiles, and roof shingles that may contain asbestos are not required to be removed due to their non-friable state.

Piping above dropped ceilings, which may contain ACM are enclosed in their present state and pose no health hazard.

Suspect ACM in the form of roofing materials, vinyl flooring, wallboard, and sprayed-on textured ceiling material were not sampled as part of the assessment. These materials are in good condition and should be sampled prior to repair, renovation, or demolition activities.

6.6. FACILITY STORAGE TANKS AND PIPELINES (ABOVE OR BELOW GROUND)

The facility boilers are dual-fuel type boilers (natural gas and fuel oil), and the three (3) electrical generators used at the site use #2 fuel oil as a source of power. Prior to 2-005, fuel oils were stored in three (3) underground storage tanks, including a 300-gallon, 2,500-gallon, and 20,000-gallon tank located on the northern and western side of Building-C. As documented in the files and databases reviewed for this Phase I, these tanks had experienced overfilling and/or failed tank testing, and at the time of their closure were determined to have had releases of petroleum to soils in areas surrounding the tanks. Excavation of the tanks and petroleum impacts were hindered due to the proximity of building foundations and subsurface utilities. Two of the three fuel oil tanks were removed, and the larger 20,000-gallon tank was abandoned by filling the tank with a slurry of concrete. Although some soils were excavated during the tank closure, evidence of residual impacts were noted based on post-excavation sampling results and information provided in the closure reports. The tank closures were overseen by either the NYSDEC or the Westchester County Health Department, and the regulatory agency provided written notification to Philips that no further action was required to address residual impacts, and the spill files established for these tanks were subsequently closed.

A fourth underground storage tank containing fuel oil was successfully removed from the Holbrook residence in 1998. Visual inspection of the tank at the time of closure indicated that it was in sound condition and post-excavations sampling completed during the removal did not detect petroleum impacts.

Philips has replaced **all** its former underground storage tanks (USTs) with aboveground fuel storage tanks and equipment. The replacement tanks are registered and equipped with secondary containment; with the exception of the 500-gallon tank serving one of the generators, which as an exemption from Westchester County. Currently, four ASTs are present at the site, including a 275-gallon fuel tank in the basement of the Holbrook residence, and a 500-gallon, 1,000-gallon, and 20,000-gallon AST located on the north and west sides of Building-C.

In addition to the underground fuel oil storage tanks, Philips had installed and used a 1,000-gallon underground storage tank (UST) for gasoline storage. The tank was installed in 1989 and removed in 2004; the tank was located to the west of the maintenance garage. At the time of its closure, petroleum impacts were detected in residual soils. Both the tank and sixteen (16) cubic yards of impacted soil were removed during the closure completed in 2004. Post-excavation soil sampling detected residual impacts, and Westchester County Health Department requested that additional investigations be completed to evaluate groundwater. The remedial contractor attempted to collect groundwater samples, but due to the proximity of subsurface utilities and because groundwater was no encountered at depths up to 20 feet, Westchester County Health Department subsequently issued a no further action responses and closed the spill file for the gasoline tank.

Between 1991 and 2013, fourteen (14) separate spill reports were filed for the Philips research facility. With the exception of a report of abandoned drums, the spills were all associated with releases of petroleum hydrocarbons. Some of the spills were associated with failed underground storage tank tightness testing, or associated with impacts identified during the closure of the USTs. These spills accounted for approximately 30% of the documented spill reports and were

satisfactorily addressed through the removal of the former USTs (see HRECs above). In addition to the UST issues, several minor spills occurred during delivery of fuel to the site or spills that were reported to have been contained on the interior of the building. Three (3) larger spills occurred in 1996, 1997, and 2004 that were attributed to equipment malfunctions that resulted in the release of fuel oils that were significant enough to require soil remediation. In addition, petroleum impacts were reported in 1991 during exaction of a new building foundation. Information regarding these spills was generally limited, and post-remedial sampling at the time of the cleanup does not appear to have been completed. However, all of the reported spills included some level of regulatory oversight, and the spill file for each of the fourteen (14) documented releases were noted to be closed, suggesting that the remediation was completed to the satisfaction of the applicable regulatory agency.

The manways and service caps observed at the Subject Site were for site services (i.e., domestic water, storm water, and sanitary sewer system).

6.7. SURFACE AREAS

Observations during EAI's assessment identified that the Subject Site lands are graded to provide slope and swale to direct storm water away from the on-site buildings. The land surface of the Subject Site is relatively flat, with no significant changes in elevation.

Visual observation of the Subject Site identified distressed vegetation in the vicinity of the basketball courts.

Visual observations did not identify any evidence of on-site surface impoundment facilities, pits, dry wells, or dumping of apparent hazardous substances at the Subject Site.

Visual observations identified surface water features; approximately 1-acre surface water pond located in the northeast corner of the Site created from the impoundment of Sparta Brook.

No pits, lagoons, or other bodies of water at the Subject Site were observed at the time of the site inspection.

The storm water generated at the subject site is guided through a system of drains, grates, gutters and drainage pipes leading to the storm drainage system. Catch basins on the developed portion of the property and parking areas serve to funnel stormwater runoff to three (3) retention basins that reduce the velocity and temporarily impound the flow of water from the paved/impervious areas. The storm water systems are not electrical. These systems do not currently pose an environmental hazard to the subject property.

6.7.1 Vapor Encroachment Condition

A Tier I Vapor Encroachment Assessment was performed on the subject property in accordance with ASTM E 2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions,* December 2015. A Tier I Vapor Encroachment Assessment determines whether there actually is or is a potential for volatile vapors to encroach upon the subject property, producing a vapor encroachment condition. A vapor encroachment condition is the presence or likely presence of vapors in the subsurface of the subject property caused by the release of vapors from contaminated soil or groundwater either on or near the subject property.

A review of current and historical uses of the subject property and surrounding properties indicates that a vapor encroachment condition is unlikely to exist at the subject property.

6.8. LEAD PAINT HAZARDS

To protect families from exposure to lead from paint, dust, and soil, Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as Title X. Section 1018 of this law directed HUD and EPA to require the disclosure of known information on lead-based paint and lead-based paint hazards before the sale or lease of most housing built before 1978. Based on our visual inspection of the building's interiors, **the painted surfaces are currently in poor condition.**

6.8.1. LEAD IN DRINKING WATER

According to the 2015 Annual Water Quality Report, a public water system operated by the New York City Department of Environmental Protection (NYCDEP) serves the subject property vicinity. Shallow groundwater beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of New York are surface water from a network of 19 reservoirs and three controlled lakes in a nearly 2,000 square mile watershed that extends 125 miles north and west of New York City. Sources include the Catskill/Delaware supply located in Delaware, Greene, Schoharie, Sullivan and Ulster counties, the Croton supply which is composed of 12 reservoir basins in Putnam, Westchester and Dutchess counties, and a groundwater supply in southeastern Queens. According to the Annual Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

6.9. MOLD & MILDEW

EAI performed a limited visual assessment for the presence of mold, conditions conducive to mold, and evidence of moisture in readily accessible interior areas of the Subject Site. EAI did not note obvious visual indications of the presence of mold and/or mildew, conditions conducive to mold, or presence of water intrusion in readily accessible interior areas of the Subject Site.

The reported observations and conclusions are based solely on interviews with Subject Site personnel and conditions as observed in readily accessible interior areas of the Subject Site on the assessment date. **Visual signs of mold and water intrusion were observed throughout the building.**

6.10. RADON HAZARDS

Radon is a colorless, odorless gas produced by the radioactive decay of certain elements. The most common sources of radon are igneous and metamorphic rocks containing uranium (such as pitchblende), granite, shale, or phosphate, as well as soils or sediments derived from these parent materials. Radon may also be found in soils contaminated with certain industrial wastes (such as uranium or phosphate mine tailings) or in earth-derived building products, which include industrial wastes that contain phosphate slag. In areas where the potential for radon accumulation is high, special ventilation systems may offset potential health hazards.

A radon test was not conducted on the subject property. Review of the EPA Map of Radon Zones places the subject property in Zone 3, where average predicted radon levels is less than 2.0 pCi/L. The USEPA recommended action level is 4.0 pCi/L. Based on low predicted radon level, adverse environmental impacts related to radon gas mitigation at the subject property are not anticipated.

7. ADJOINING PROPERTIES & SURROUNDING PROPERTIES

A walk-through and a visual reconnaissance of the surrounding area were made for potential environmental concerns or problems. Properties in the general vicinity of the Subject Site appear to be residential buildings.

Based on observations and available regulatory information, the adjacent property uses are not anticipated to adversely impact the environmental integrity of the Subject Site.

8. FINDINGS, CONCLUSIONS, & RECOMMENDATIONS

- A ***Recognized Environmental Condition (REC)*** refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property, due to release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

  - This assessment has revealed **no** evidence of RECs in conjunction with the subject property.

- ***Controlled Recognized Environmental Conditions (CRECs)*** are defined by the ASTM Standard Practice E1527-13 as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a NFA letter or equivalent, or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g. property use restrictions, AULs, institutional controls, or engineering controls).

  ➢ This assessment has revealed **no** evidence of CRECs in conjunction with the subject property.

- ***Historical Recognized Environmental Conditions (HRECs)*** are defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls).

  - This assessment **has revealed** evidence of HRECs in connection with the subject property

    ➢ The facility boilers are dual-fuel type boilers (natural gas and fuel oil), and the three (3) electrical generators used at the site use #2 fuel oil as a source of power. Prior to 2-005, fuel oils were stored in three (3) underground storage tanks, including a 300-gallon, 2,500-gallon, and 20,000-gallon tank located on the northern and western side of Building-C. As documented in the files and databases reviewed for this Phase I, these tanks had experienced overfilling and/or failed tank testing, and at the time of their closure were determined to have had releases of petroleum to soils in areas surrounding the tanks. Excavation of the tanks and petroleum impacts were hindered due to the proximity of building foundations and subsurface utilities. Two of the three fuel oil tanks were removed, and the larger 20,000-gallon tank was abandoned by filling the tank with a slurry of concrete. Although some soils were excavated during the tank closure, evidence of residual impacts were noted based on post-excavation sampling results and information provided in the closure reports. The tank closures were overseen by either the NYSDEC or the Westchester County Health Department, and the regulatory agency provided written notification to Philips that no further action was required to address residual impacts, and the spill files established for these tanks were subsequently closed.

    A fourth underground storage tank containing fuel oil was successfully removed from the Holbrook residence in 1998. Visual inspection of the tank at the time of closure indicated that it was in sound condition and post-excavations sampling completed during the removal did not detect petroleum impacts.

    Philips has replaced **all** its former underground storage tanks (USTs) with aboveground fuel storage tanks and equipment. The replacement tanks are registered

and equipped with secondary containment; with the exception of the 500-gallon tank serving one of the generators, which as an exemption from Westchester County. Currently, four ASTs are present at the site, including a 275-gallon fuel tank in the basement of the Holbrook residence, and a 500-gallon, 1,000-gallon, and 20,000-gallon AST located on the north and west sides of Building-C.

- In addition to the underground fuel oil storage tanks, Philips had installed and used a 1,000-gallon underground storage tank (UST) for gasoline storage. The tank was installed in 1989 and removed in 2004; the tank was located to the west of the maintenance garage. At the time of its closure, petroleum impacts were detected in residual soils. Both the tank and sixteen (16) cubic yards of impacted soil were removed during the closure completed in 2004. Pos-excavation soil sampling detected residual impacts, and Westchester County Health Department requested that additional investigations be completed to evaluate groundwater. The remedial contractor attempted to collect groundwater samples, but due to the proximity of subsurface utilities and because groundwater was no encountered at depths up to 20 feet, Westchester County Health Department subsequently issued a no further action responses and closed the spill file for the gasoline tank.
- Between 1991 and 2013, fourteen (14) separate spill reports were filed for the Philips research facility. With the exception of a report of abandoned drums, the spills were all associated with releases of petroleum hydrocarbons. Some of the spills were associated with failed underground storage tank tightness testing or associated with impacts identified during the closure of the USTs. These spills accounted for approximately 30% of the documented spill reports and were satisfactorily addressed through the removal of the former USTs (see HRECs above). In addition to the UST issues, several minor spills occurred during delivery of fuel to the site or spills that were reported to have been contained on the interior of the building. Three (3) larger spills occurred in 1996, 1997, and 2004 that were attributed to equipment malfunctions that resulted in the release of fuel oils that were significant enough to require soil remediation. In addition, petroleum impacts were reported in 1991 during exaction of a new building foundation. Information regarding these spills was generally limited, and post-remedial sampling at the time of the cleanup does not appear to have been completed. However, all of the reported spills included some level of regulatory oversight, and the spill file for each of the fourteen (14) documented releases were noted to be closed, suggesting that the remediation was completed to the satisfaction of the applicable regulatory agency.

- ***De Minimis Conditions***: Findings which would otherwise be characterized as Recognized Environmental Conditions, but which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies are classified as *de minimis* in accordance with the agreed scope of work. De Minimis Conditions are not considered RECs.
  - This assessment **has revealed** evidence of de minimis environmental conditions in connection with the subject property related to motor oil staining in the parking lot associated with previously parked vehicles. Staining on the roof and sub-level mechanical areas are likely associated with property and equipment operations and repairs. The observed staining does not appear to be significant or pervasive.

EAI observed significant quantities of mechanical equipment including boilers, cooling towers, chillers, water filtration tanks, and air handlers that may contain hazardous materials or oils. Building equipment will require decommissioning prior to building development.

9. CERTIFICATION

EAI, Inc personnel have been retained to perform this assessment to achieve compliance with the AAI protocol pursuant to 40 CFR Part 312, FR, November 1, 2005, *Standards and Practices for All Appropriate Inquiries.*

The assessment was performed at the Client's request using the methods and procedures consistent with good commercial and customary practice designed to conform to acceptable industry standards and the Guidelines E1527-13, as established by the American Society for Testing and Materials (ASTM).

This report is exclusively for the use and benefit of the Client identified on the first page of this report. The purpose for which the report shall be used shall be limited to the use as stated in the contract between the client and EAI.

This report is not for the use or benefit of, nor may it be relied upon by any other person or entity for any purpose without the advance written consent of EAI. In expressing the opinions stated in this report, EAI has exercised the degree or skill and care ordinarily exercised by a reasonable prudent environmental professional in the same community and in the same time frame given the same or similar facts or circumstances. Documentation and data provided by the Client, designated representatives of the Client or other interested third parties, or from the public domain, and referred to in the preparation of this assessment, have been used and referenced with the understanding that EAI assumes no responsibility or liability for their accuracy.

The independent conclusions represent our professional judgment based on information and data available to us during the course of this assignment. Factual information regarding operations, conditions, and test data provided by the Client or their representative has been assumed to be correct and complete. The conclusions presented are based on the data provided, observations, and conditions that existed on the date of the on-site visit.

9.1. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40CFR 312; and

I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



_____

Alexander Friedman, EP

10. DISCLAIMER

This report contains information obtained from a variety of public and other sources. No warranty expressed or implied, is made whatsoever in connection with this report. Environmental Affiliates Inc. specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. All risk is assumed by the user. In no event shall EAI be liable to anyone, whether arising out of errors or omissions, negligence, accident or any other cause, for any loss or damage, including, without limitation, special incidental, consequential, or exemplary damages.

SECTION

B

SITE PHOTOGRAPHS



Entrance to Subject Property on Scarborough Rd



Adjacent Property



Adjacent Property



Across Subject Property



Across Subject Property



Boarded-up House



Subject Property Roadway



Entyrance to Subject Building



Subject Building



Subject Building



Subject Property



Rear of Property



Lobby



Hallway



Hallway



Hallway



Hallway



Interior

345 Scarborough Road
Briarcliff Manor, NY 10510

	
Interior	**Stairwell**
	
Vacant Room	**Vacant Room**
	
Visible Mold	**Boiler**

345 Scarborough Road
Briarcliff Manor, NY 10510

	
Boiler	**Basement**
	
Basement	**Mechanical Room**
	
Stairwell	**Roof**

345 Scarborough Road
Briarcliff Manor, NY 10510

	
Roof	**Roof**
	
Roof	**Roof**
	
Roof	**AC Compressors**

	
Air Handler	**Air Handler**
	
Surrounding View	**Surrounding View**
	
Surrounding View	**Mechanical Room on Roof**

	
Mechanical Room on Roof	**Electric Dry Transformer**
	
Roof – Building D	**Rear Building D**
	
Subject Property	**Subject Property Parking**

	
Subject Property	**Basketball Court**
	
Tennis Court	**Subject Property**
	
Subject Property	**Rear of Property**

345 Scarborough Road
Briarcliff Manor, NY 10510



Rear of Property



Rear of Property



Entrance to Subject Property on Holbrook Road



Adjacent on Holbrook Road



Across on Holbrook Road



Across on Holbrook Road

	
Subject Property – Frontage on Holbrook Road	**Water Creek**
	
Drive-thru on Subject Property	**Electric Transformer on Pad**
	
Rear Loading	**Electric Transformer on Pad**

SECTION

C

STREET AND SITE MAPS

Street Name Report for Streets near the Target Property

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

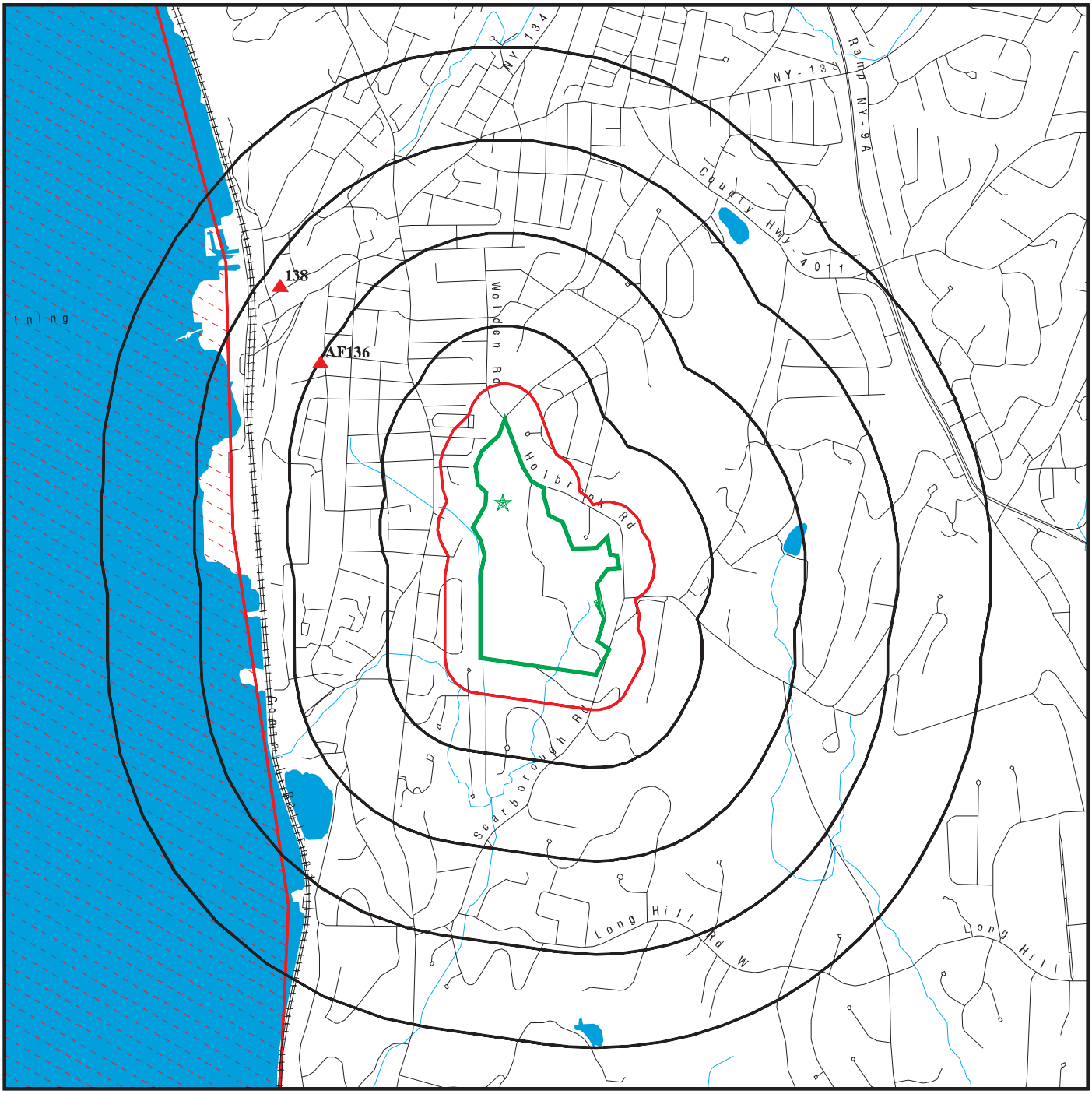
Street Name	Dist/Dir	Street Name	Dist/Dir
Argyle Pl	0.24 ENE		
Birch Brook Manor Ln	0.22 NNW		
Charter Cir	0.23 SSW		
Fuller Rd	0.18 NNW		
Holbrook Ln	0.21 East		
Holbrook Rd	0.10 NE		
Lafayette Ave	0.25 West		
Macy Rd	0.23 North		
Magnolia Rd	0.21 NE		
Martin Rd	0.16 NNW		
Meadow Pl	0.19 NNE		
Meadow Rd	0.20 NE		
Nelson Ave	0.21 WSW		
US-9 N	0.22 WNW		
US-9 S	0.18 West		
Washington Ave	0.22 WNW		
Wolden Rd	0.23 North		

Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 41.151531 Longitude: 73.856172)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

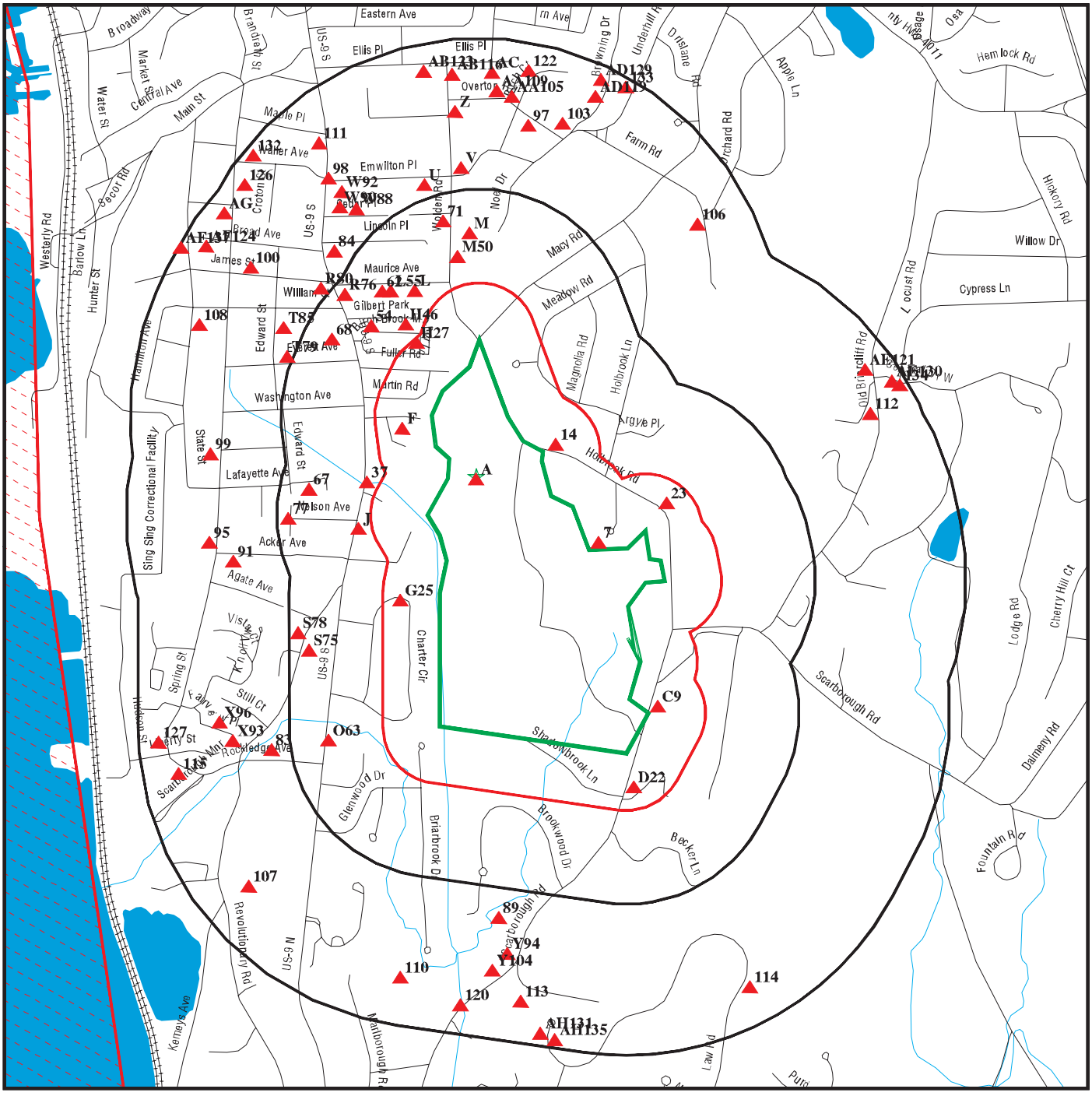
EDR Reference Code (EDR internal use only): 6896069.2s
Copyright © 2022 EDR, Inc. © 2015 TomTom Rel. 2015.
22-03-14.15:05:36.Mon

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Black Rings Represent Qtr. Mile Radius; **Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 41.151531 Longitude: 73.856172)**

▲ **Identified Sites**

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR Internal use only): 6896069.2s

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22-03-14.15:06:07.Mon

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 41.151531 Longitude: 73.856172)

▲ Identified Sites

National Priority List Sites

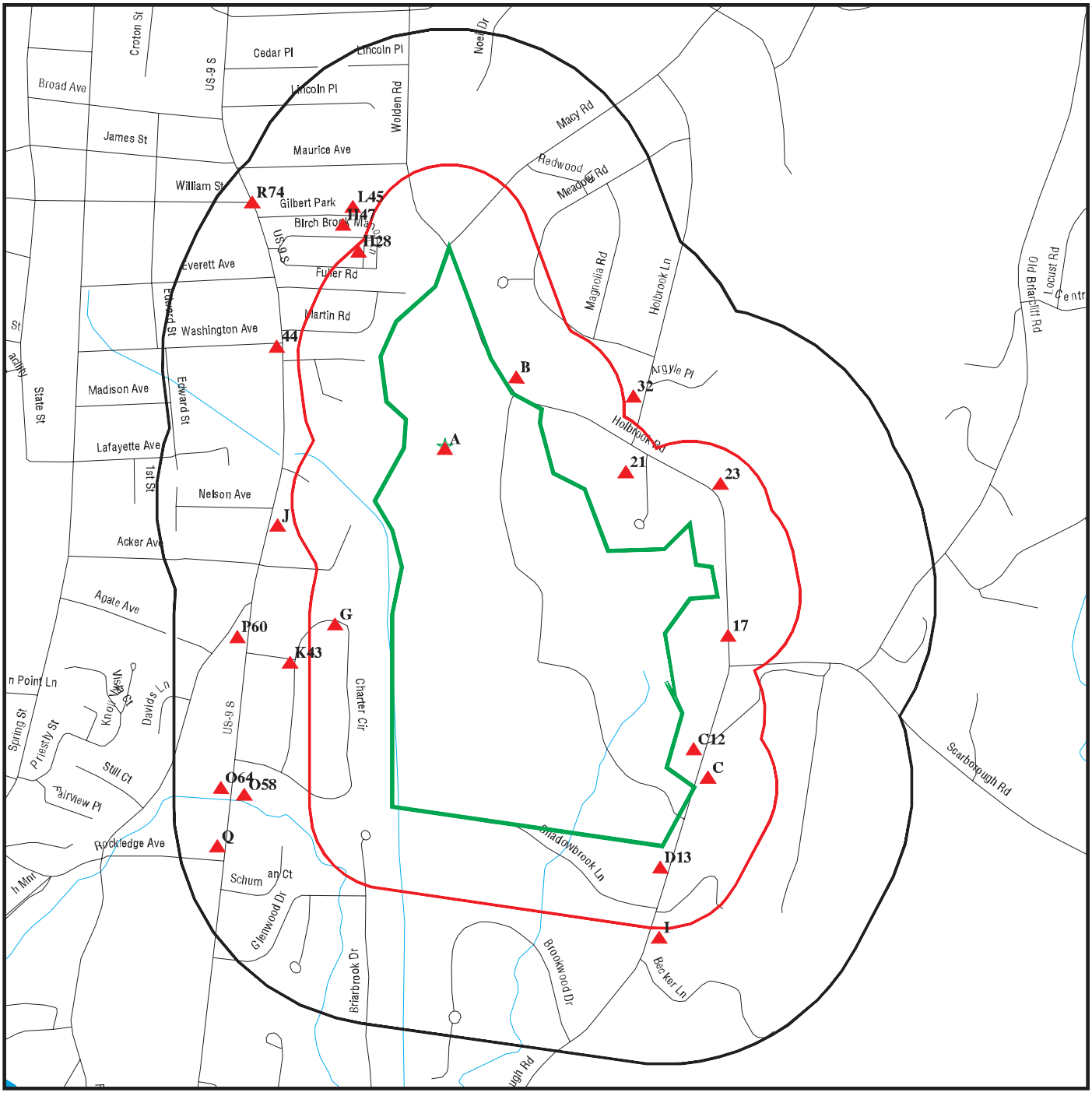
Indian Reservations BIA

EDR Reference Code (EDR Internal use only): 6896069.2s
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22-03-14.15:06:38.Mon

Environmental FirstSearch

0.25 Mile Radius
Non ASTM Map, Spills, FINDS

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Black Rings Represent Qtr. Mile Radius; **Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 41.151531 Longitude: 73.856172)**

▲ **Identified Sites**

Sensitive Receptors

National Priority List Sites

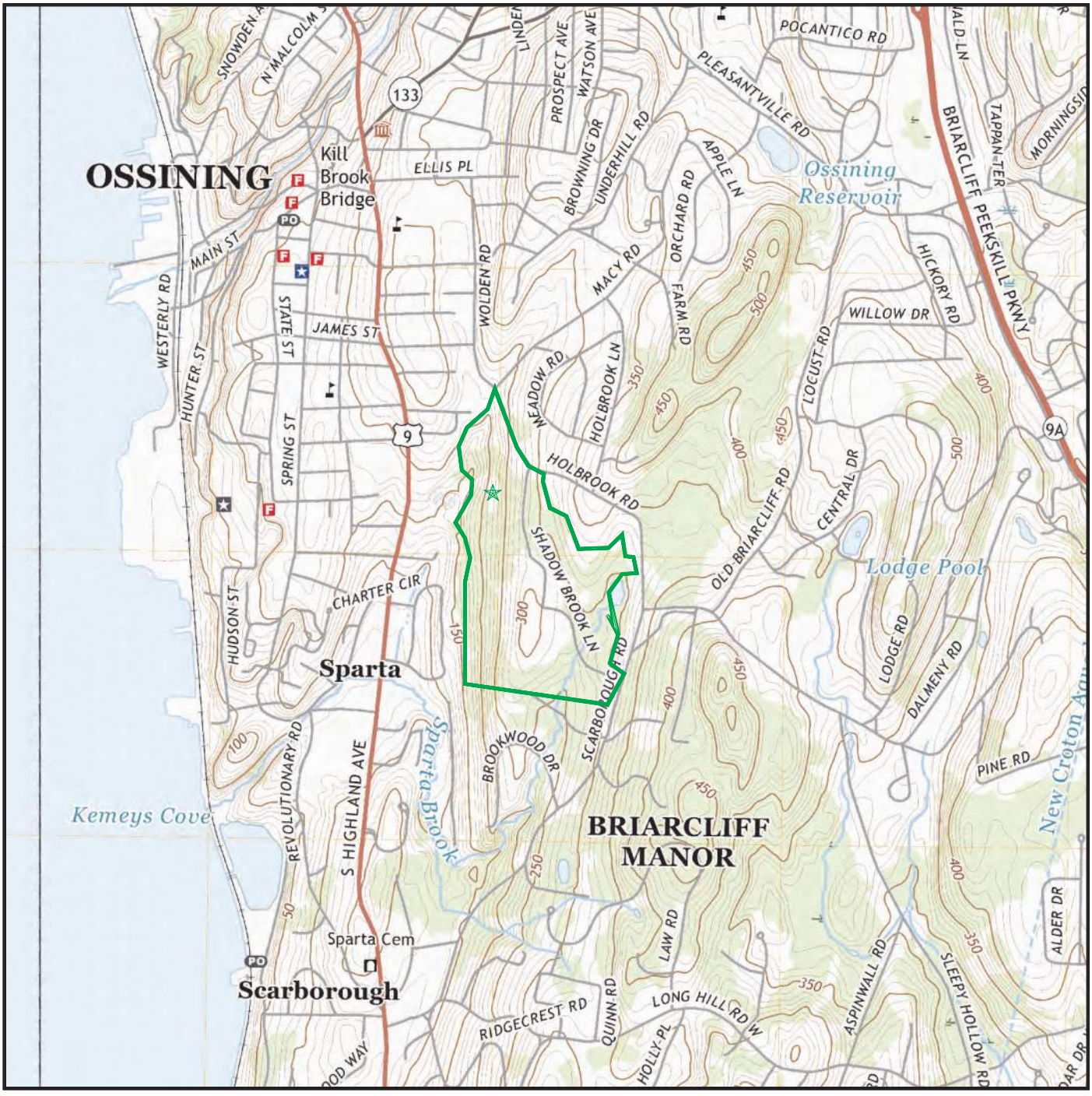
Indian Reservations BIA

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Site location Map

Topo: 0.75 Mile Radius

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Map Image Position: TP
Map Reference Code & Name: 14142193 Ossining
Map State(s): NY
Version Date: 2019
Map Image Position: NW
Map Reference Code & Name: 14123661 Haverstraw
Map State(s): NY
Version Date: 2019

SECTION

D

ENVIRONMENTAL DATABASE REPORT

Projecg # 223152
345 Scarborough Road
BRIARCLIFF MANOR, NY 10510

Inquiry Number: 6896069.2s
March 14, 2022

FirstSearch Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Search Summary Report

TARGET SITE **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	1	0	1
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	2	-	0	2
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	1	0	3	-	-	0	4
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	1	-	-	-	-	0	1
State/Tribal CERCLIS	Y	0	0	0	1	1	0	2
State/Tribal SWL	Y	0	0	0	1	-	0	1
State/Tribal LTANKS	Y	2	16	16	55	-	3	92
State/Tribal Tanks	Y	0	7	9	-	-	0	16
State/Tribal IC / EC	Y	0	0	0	-	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
ST/Tribal Brownfields	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	0	0
Other Tanks	Y	0	0	0	-	-	0	0
Spills	Y	3	22	-	-	-	0	25
Other	Y	4	0	11	-	-	0	15
	- Totals --	11	45	39	59	2	3	159

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Search Summary Report

TARGET SITE: **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	01/25/2022	1.000	0	0	0	0	1	0	1
	Proposed NPL	01/25/2022	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	01/25/2022	1.000	0	0	0	0	0	0	0
CERCLIS	SEMS	01/25/2022	0.500	0	0	0	0	-	0	0
NFRAP	SEMS-ARCHIVE	01/25/2022	0.500	0	0	0	2	-	0	2
RCRA COR ACT	CORRACTS	09/13/2021	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	09/13/2021	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	09/13/2021	0.250	0	0	0	-	-	0	0
	RCRA-SQG	09/13/2021	0.250	0	0	0	-	-	0	0
	RCRA-VSQG	09/13/2021	0.250	1	0	3	-	-	0	4
Federal IC / EC	US ENG CONTROLS	11/19/2021	0.500	0	0	0	0	-	0	0
	US INST CONTROLS	11/19/2021	0.500	0	0	0	0	-	0	0
ERNS	ERNS	12/31/2021	TP	1	-	-	-	-	0	1
State/Tribal CERCLIS	NY SHWS	01/06/2022	1.000	0	0	0	1	1	0	2
State/Tribal SWL	NY SWF/LF	09/30/2021	0.500	0	0	0	1	-	0	1
State/Tribal LTANKS	INDIAN LUST	04/28/2021	0.500	0	0	0	0	-	0	0
	NY LTANKS	01/31/2022	0.500	2	16	16	55	-	3	92
	NY HIST LTANKS	01/01/2002	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	NY UST	12/16/2021	0.250	0	5	4	-	-	0	9
	NY CBS UST	01/01/2002	0.250	0	0	0	-	-	0	0
	NY MOSF UST	01/01/2002	0.500	0	0	0	0	-	0	0
	NY CBS	12/16/2021	0.250	0	0	0	-	-	0	0
	NY MOSF	12/16/2021	0.500	0	0	0	0	-	0	0
	NY AST	12/16/2021	0.250	0	2	5	-	-	0	7
	NY CBS AST	01/01/2002	0.250	0	0	0	-	-	0	0
	NY MOSF AST	01/01/2002	0.500	0	0	0	0	-	0	0
	INDIAN UST	10/14/2021	0.250	0	0	0	-	-	0	0
	NY TANKS	12/16/2021	0.250	0	0	0	-	-	0	0

Search Summary Report

TARGET SITE: **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
State/Tribal IC / EC	NY RES DECL	11/23/2021	0.180	0	0	0	-	-	0	0
	NY ENG CONTROLS	01/06/2022	0.500	0	0	0	0	-	0	0
	NY INST CONTROL	01/06/2022	0.500	0	0	0	0	-	0	0
State/Tribal VCP	NY VCP	01/06/2022	0.500	0	0	0	0	-	0	0
ST/Tribal Brownfields	NY BROWNFIELDS	01/06/2022	0.500	0	0	0	0	-	0	0
	NY ERP	01/06/2022	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	02/23/2022	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	11/16/2021	TP	0	-	-	-	-	0	0
Other Tanks	NY HIST UST	01/01/2002	0.250	0	0	0	-	-	0	0
	NY HIST AST	01/01/2002	0.250	0	0	0	-	-	0	0
Spills	HMIRS	12/15/2021	TP	0	-	-	-	-	0	0
	NY Spills	01/31/2022	0.125	3	22	-	-	-	0	25
	NY Hist Spills	01/01/2002	0.125	0	0	-	-	-	0	0
	NY SPILLS 90	12/14/2012	0.125	0	0	-	-	-	0	0
	NY SPILLS 80	11/02/2010	0.125	0	0	-	-	-	0	0
Other	RCRA NonGen / NLR	09/13/2021	0.250	0	0	3	-	-	0	3
	TSCA	12/31/2016	TP	0	-	-	-	-	0	0
	TRIS	12/31/2018	TP	0	-	-	-	-	0	0
	SSTS	10/18/2021	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	PRP	01/25/2022	TP	0	-	-	-	-	0	0
	PADS	11/19/2020	TP	0	-	-	-	-	0	0
	ICIS	11/18/2016	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	MLTS	07/29/2021	TP	0	-	-	-	-	0	0
	RADINFO	07/01/2019	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2014	1.000	0	0	0	0	0	0	0
	US AIRS	10/12/2016	TP	1	-	-	-	-	0	1
	FINDS	11/04/2021	TP	2	-	-	-	-	0	2
	NY DRYCLEANERS	12/10/2021	0.250	0	0	2	-	-	0	2
	NY HSWDS	01/01/2003	0.250	0	0	0	-	-	0	0
	NY MANIFEST	01/01/2019	0.250	1	0	4	-	-	0	5
	NJ MANIFEST	01/01/2019	0.250	0	0	1	-	-	0	1
	PA MANIFEST	01/01/2019	0.250	0	0	1	-	-	0	1

Search Summary Report

TARGET SITE: **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
	NY SPDES	11/04/2021	0.250	0	0	0	-	-	0	0
	- Totals --			11	45	39	59	2	3	159

Site Information Report

Request Date: MARCH 14, 2022
Search Type: COORD
Request Name: ALEXANDER FRIEDMAN
Job Number: 223152

Target Site: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	73.856172	73.8561720 - 73ˆ 51’ 22.21’’	Easting:	595980.5
Latitude:	41.151531	41.1515310 - 41ˆ 9’ 5.51’’	Northing:	4555997.0
Elevation:	216 ft. above sea level		Zone:	Zone 18

Demographics

Sites: 156 **Non-Geocoded:** 3 **Population:** N/A

RADON

Federal EPA Radon Zone for WESTCHESTER County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for WESTCHESTER COUNTY, NY

Number of sites tested: 650

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.930 pCi/L	97%	3%	0%
Basement	1.730 pCi/L	84%	13%	2%

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result

Site Information Report

RADON

WESTCHESTER	BEDFORD	108	2.44	1.65	21.7
WESTCHESTER	CORTLANDT	169	5.15	2.22	95.4
WESTCHESTER	EASTCHESTER	76	2.89	1.75	41.9
WESTCHESTER	GREENBURGH	222	2.26	1.46	21.8
WESTCHESTER	HARRISON	69	3.3	2.07	42.3
WESTCHESTER	LEWISBORO	72	3.91	2.61	19.2
WESTCHESTER	MAMARONECK	123	4	2.42	35.9
WESTCHESTER	MT. KISCO	38	2.33	1.72	9.3
WESTCHESTER	MT. PLEASANT	172	2.13	1.43	17.1
WESTCHESTER	MT. VERNON	53	2.82	1.65	32
WESTCHESTER	NEW CASTLE	134	2.2	1.46	31.7
WESTCHESTER	NEW ROCHELLE	127	1.92	1.31	13.8
WESTCHESTER	NO. CASTLE	64	3.49	2.25	16.5
WESTCHESTER	NO. SALEM	56	3.78	2.56	25.7
WESTCHESTER	OSSINING	65	2.08	1.39	10.9
WESTCHESTER	PEEKSKILL	47	3.66	2.34	19.9
WESTCHESTER	PELHAM	26	2.5	1.91	9.1
WESTCHESTER	POUND RIDGE	34	3.37	2.22	18.5
WESTCHESTER	RYE	98	2.24	1.63	9.5
WESTCHESTER	SCARSDALE	138	2.35	1.63	22.4
WESTCHESTER	SOMERS	72	3.89	2.82	21.3
WESTCHESTER	WHITE PLAINS	132	2.76	1.48	65.2
WESTCHESTER	YONKERS	153	2.23	1.37	16
WESTCHESTER	YORKTOWN	181	2.7	1.72	27.2

Target Site Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A1	NY MANIFEST --NYD047931902	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	1
A1	FINDS --110000807690	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	3
A1	US AIRS --110004366604	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	4
A1	NY Spills --0701008 / 2007-12-10 --9211458 / 1993-01-07 --9503630 / 1995-07-07 --9703570 / 1997-11-10 --0410334 / 2009-11-05 --380453 *Additional key fields are available in the Map Findings section	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	5
A1	NY LTANKS --9207085 / 1993-08-27 --9605979 / 1997-01-07 --124104 --124107 --1992-09-18 --1996-08-08 *Additional key fields are available in the Map Findings section	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	11
A1	RCRA-VSQG --NYD047931902	PHILIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	15
A2	FINDS	PHILLIPS RESEARCH LABORATORIES	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY 10510	0.00	+ 0	34
A3	ERNS --832905 --2007-04-20 14:06:00		345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY	0.00	+ 0	35
A4	NY Spills --1308235 / 2013-11-13 --488958 --2013-11-13	PHILIPS	345 SCARBOROUGH RD BRIARCLIFF MANOR, NY	0.00	+ 0	40
A5	NY Spills --9109356 / 1992-03-17 --9614999 / 1997-03-28 --172627 --172628 --1991-11-29 --1997-03-27 *Additional key fields are available in the Map Findings section	PHILLIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF, NY	0.00	+ 0	42

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A5	NY LTANKS --0205462 / 2002-09-26 --0403556 / 2004-12-10 --9108436 / 1991-11-25 --172624 --172625 --172626 *Additional key fields are available in the Map Findings section	PHILLIPS RESEARCH	345 SCARBOROUGH RD BRIARCLIFF, NY	0.00	+ 0	45

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Reg	NPL --202229 --NYD980763841	HUDSON RIVER PCBS	NO STREET APPLICABLE HUDSON RIVER, NY 12871	0.61 West		50
B6	NY Spills --9513598 / 1996-01-26 --282239 --1996-01-26	PHRLPS LABRATORY	190 HOOLBROOK ROAD BRIARCLIFF MANOR, NY	0.00	+ 64	52
7	NY LTANKS --0002631 / 2000-10-04 --71750 --2000-06-01	RESIDENTS	100 HOLBROOK ROAD BRIARCLIFF MANOR, NY	0.01 ESE	+ 123	54
B8	NY Spills --9608347 / 1997-04-30 --9614799 / 1997-04-30 --78820 --78821 --1996-10-03 --1997-03-24 *Additional key fields are available in the Map Findings section	PRIVATE RESIDENCE	181 HOLBROOK ROAD BRIARCLIFF, NY	0.01 NE	+ 71	56
C9	NY LTANKS --0301904 / 2003-12-15 --0301905 / 2003-11-19 --0301906 / 2003-11-19 --9201783 / 1992-06-17 --265417 --265418 *Additional key fields are available in the Map Findings section	BROOKE ASTOR ESTATE	298 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY	0.02 SE	+ 116	59
C10	NY Spills --0605158 / 2006-08-03 --368277 --2006-08-03	ASTER HOME	298 SCARBOROUGH ROAD BRIARCLIFF, NY	0.02 SE	+ 116	66
C11	NY Spills --9713480 / 1998-04-20 --94722 --1998-03-05	ASTOR ESTATE	298 SCARBOUROGH ROAD BRIARCLIFF MANOR, NY	0.02 SE	+ 116	68
C12	NY Spills --0410571 / 2005-05-15 --335584 --2004-12-23	RESIDENCE	309 SCARBOROUGH ROAD BRIARCLIFF, NY	0.02 SE	+ 106	70

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D13	NY Spills --0208114 / 2002-11-06 --289226 --2002-11-05	SPILL NUMBER 0208114	SCARBORO RD / BECKER RD BRIARCLIFF MANOR, NY	0.02 SSE	+ 88	72
14	NY LTANKS --0509558 / 2006-05-01 --355350 --2005-11-09	STABILE HOME	155 HOLBROOK ROAD BRIARCLIFF, NY	0.02 ENE	+ 104	74
E15	NY AST --3-078425 --1. In-Service	JEFFERSON HOUSE APARTMENTS	71-81 CHARTER CIRCLE OSSINING, NY 10562	0.04 SSW	- 91	76
E16	NY UST --3-078425 --3. Closed - Removed --Active	JEFFERSON HOUSE APARTMENTS	71-81 CHARTER CIRCLE OSSINING, NY 10562	0.04 SSW	- 91	77
17	NY Spills --1010001 / 2011-07-26 --443582 --2010-12-20	MCKIE RESIDENCE	16 HOLBROOK ROAD WHITE PLAINS, NY	0.05 ESE	+ 112	78
F18	NY LTANKS --0000509 / 2000-08-25 --308818 --2000-04-13	SHERWOOD GROUP	111 HIGHLAND AVE OSSINING, NY	0.05 WNW	- 3	80
F19	NY UST --3-600606 --3. Closed - Removed --0. Administratively closed --1. In-Service --Active	SPARTA APARTMENTS LLC	111 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.05 NW	+ 0	82
F20	NY AST --3-600606 --1. In-Service	SPARTA GREEN APARTMENT	111 SOUTH HIGHLAND AVE OSSINING, NY	0.05 NW	+ 0	86
F20	NY LTANKS --1908760 / 2019-12-31 --598966 --2019-12-03	SPARTA GREEN APARTMENT	111 SOUTH HIGHLAND AVE OSSINING, NY	0.05 NW	+ 0	88

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21	NY Spills --0607091 / 2007-08-27 --370551 --2006-09-20	GOETZ RESIDENCE	128 HOLBROOK ROAD BRIARCLIFF MANOR, NY	0.05 East	+ 145	91
D22	NY LTANKS --0604646 / 2006-11-19 --367659 --2006-07-25	REAL ESATE TRANSACTION	380 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY	0.06 SSE	+ 103	93
23	NY Spills --9709090 / 1998-03-10 --251920 --1997-11-04	RESIDENCE	81 HOLBROOK ROAD BRIARCLIFF MANOR, NY	0.06 East	+ 127	95
23	NY LTANKS --0507996 / 2005-10-13 --353504 --2005-10-04	RESIDENCE	81 HOLBROOK ROAD BRIARCLIFF MANOR, NY	0.06 East	+ 127	97
G24	NY UST --3-165522 --1. In-Service --3. Closed - Removed --Active	HIGH MEADOW COOPERATIVE NO. 1	98 CHARTER CIRCLE OSSINING, NY 10562	0.07 SSW	- 106	99
G25	NY Spills --0709031 / 2008-06-08 --390043 --2007-11-19	HIGH MEADOW COOPERATIVE	98 CHARTER CIRCLE OSSINING, NY	0.07 SSW	- 106	104
G25	NY LTANKS --0603511 / 2006-12-27 --366253 --2006-06-29	HIGH MEADOW COOPERATIVE	98 CHARTER CIRCLE OSSINING, NY	0.07 SSW	- 106	106
H26	NY UST --3-600872 --3. Closed - Removed --1. In-Service --Active	BIRCH BROOK MANOR, INC.	81-89 SOUTH HIGHLAND AVEN OSSINING, NY 10562	0.09 NNW	+ 32	109
H27	NY LTANKS --0102427 / 2001-10-30 --245389 --2001-06-04	APARTMENT HOUSE	81-89 SOUTH HIGHLAND AVE OSSINING, NY	0.09 NNW	+ 32	111

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H28	NY Spills --1804950 / 2018-12-10 --574652 --2018-08-07	BIRCH BROOK MANOR	81-89 SOUTH HIGHLAND AVE OSSINING, NY	0.09 NNW	+ 32	113
G29	NY Spills --0801974 / 2008-10-02 --398031 --2008-05-20	HOUSING COMPLEX	118 CHARTER CIRCLE OSSINING, NY	0.09 SW	- 120	115
I30	NY Spills --1503225 / 2016-02-26 --509520 --2015-06-23	KIM SCHWAB - UST	410 SCARBOROUGH ROAD BRIARCLIFF, NY	0.10 SSE	+ 97	117
I31	NY Spills --1503446 / 2016-02-26 --509748 --2015-06-23	KIM SCHWAB - UST	410 SCARBOROUGH RD BRIARCLIFF MANOR, NY	0.10 SSE	+ 97	119
32	NY Spills --0307929 / 2004-02-02 --305424 --2003-10-27	CONZONE RESIDENCE	22 HOLBROOK LANE BRIARCLIFF MANOR, NY	0.11 ENE	+ 156	121
J33	NY LTANKS --9907182 / 2000-06-07 --216374 --1999-09-15	SPILL NUMBER 9907182	135 SOUTH HIGHLAND AVE OSSINING, NY	0.11 WSW	- 82	123
J34	NY LTANKS --1405885 / 2014-10-01 --499334 --2014-09-02	APT BUILDING	129 SOUTH HIGHLAND AVE OSSINING, NY	0.11 WSW	- 82	125
J35	NY LTANKS --8801481 / 1989-01-11 --9907181 / 2000-06-07 --8801470 / 1989-01-11 --247094 --304332 --284435 *Additional key fields are available in the Map Findings section	HIGHLAND TERRACE	133 SOUTH HIGHLAND AVE OSSINING, NY	0.11 WSW	- 82	127

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J36	NY Spills --9911572 / 2000-01-11 --297281 --2000-01-04	POLE #5	IFO 125 S HIGHLAND AVE OSSINING, NY	0.11 WSW	- 82	132
37	NY LTANKS --8900978 / 1989-05-05 --187243 --1989-05-02	PARKVIEW CO-OP	121 SOUTH HIGHLAND AVE OSSINING, NY	0.11 West	- 42	134
J38	NY Spills --0901359 / 2009-05-04 --413345 --2009-05-04	APARTMENT COMPLEX	123-135 SOUTH HIGHLAND AV OSSINING, NY	0.12 WSW	- 85	136
J39	NY Spills --2103488 / 2021-10-29 --622261 --2021-07-13	HIGHLAND TERRACE	123-135 SOUTH HIGHLAND AV OSSINING, NY	0.12 WSW	- 85	138
J40	NY UST --3-168238 --3. Closed - Removed --1. In-Service --Active	HIGHLAND TERRACE OWNERS CORP.	123-135 SOUTH HIGHLAND AV OSSINING, NY 10562	0.12 WSW	- 85	140
J41	NY LTANKS --9107677 / 1991-10-28 --275443 --1991-10-17	HIGHLAND TERRACE APT COMPLEX	123-35 SOUTH HIGHLAND AVE OSSINING, NY	0.12 WSW	- 85	145
J42	NY LTANKS --1205642 / 2013-11-13 --468604 --2012-09-06	HIGHLAND TOWERS OWNERS CORP	123-135 STH HIGHLAND AVE OSSINING, NY	0.12 WSW	- 81	147
K43	NY Spills --9710328 / 1997-12-09 --99654 --1997-12-09	POLE #PW-47 TRANSFORMER	7 GENEVA RD OSSINING, NY	0.12 SW	- 136	149
44	NY Spills --9906933 / 1999-09-14 --257671 --1999-09-10	HAAS RES WASHINGTON AVE	76 WASHINGTON AVE NASSAU SCHODACK NASSAU LAKE, NY	0.12 WNW	- 6	151

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L45	NY Spills --0701295 / 2008-01-14 --380829 --2007-05-01	LEWIS HOME	13 GILBERT PARK OSSINING, NY	0.12 NNW	+ 42	153
H46	NY LTANKS --9809895 / 1999-03-31 --99858 --1998-11-03	SPILL NUMBER 9809895	12 GILBERT PARK OSSINING, NY	0.12 NNW	+ 47	155
H47	NY Spills --0303058 / 2003-07-29 --293898 --2003-06-23	12 GILBERT PARK	12 GILBER PARK OSSINING, NY	0.12 NNW	+ 47	157
L48	NY LTANKS --0312428 / 2005-02-09 --62519 --2004-02-08	BAUMER RESIDENCE	22 MAURICE AVE OSSINING, NY	0.13 NNW	+ 28	159
L49	NY LTANKS --9302353 / 1993-05-21 --151182 --1993-05-19	SPAGNOLI RESIDENCE	20 MAURICE AVE OSSINING, NY	0.14 NNW	+ 34	161
M50	NY LTANKS --1304818 / 2013-12-17 --485363 --2013-08-02	WESTERFIELD	49 WOLDEN RD OSSINING, NY	0.14 North	+ 31	163
N51	NY AST --3-078433 --1. In-Service	JEFFERSON HIGHLAND APARTMENTS	151 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.15 SW	- 108	165
N51	NY UST --3-078433 --4. Closed - in place --Active	JEFFERSON HIGHLAND APARTMENTS	151 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.15 SW	- 108	167
K52	NY AST --3-801484 --1. In-Service	LCR EXHAUST CORP. D/B/A MEINEK	157 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.15 SW	- 129	168

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N53	NY UST --3-173495 --3a. Closed - Prior to 04/1991 --1. In-Service --3. Closed - Removed --Active	CRR ENTERPRISES (OSSINING BP)	155 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.16 SW	- 121	170
54	NY LTANKS --0304773 / 2003-10-27 --246443 --2003-08-05	EGAN RESIDENCE	4 GILBERT PARK OSSINING, NY	0.16 NW	+ 40	175
L55	NY LTANKS --0801967 / 2008-12-18 --398024 --2008-05-20	WHITE HOME	14 MAURICE AVE OSSINING, NY	0.17 NNW	+ 49	177
M56	NY LTANKS --0602409 / 2006-09-04 --364868 --2006-06-02	HELLERSTIEN HOME	41 WOLDEN ROAD OSSINING, NY	0.17 North	+ 32	179
O57	NY UST --3-178330 --3a. Closed - Prior to 04/1991 --1. In-Service --Active	MAIN BROADWAY LLC	197 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.17 SSW	- 153	181
O58	RCRA NonGen / NLR --NYD000699801	SUNOCO SERVICE STATION	197 S HIGHLAND AVE OSSINING, NY 10562	0.17 SSW	- 153	187
P59	NY AST --3-166448 --3. Closed - Removed --1. In-Service	SHELL STATION #138685	160 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.18 SW	- 132	192
P59	NY UST --3-166448 --3. Closed - Removed --1. In-Service --Active	SHELL STATION #138685	160 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.18 SW	- 132	194
P60	RCRA NonGen / NLR --NYR000049080	SHELL SERVICE STATION	160 S HIGHLAND AVE OSSINING, NY 10562	0.18 SW	- 132	199

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M61	NY LTANKS --1603355 / 2016-08-11 --529812 --2016-07-06	CALLAMARI - TTF	45 WOLDEN RD OSSINING, NY	0.18 North	+ 61	204
62	NY LTANKS --1311699 / Not Reported --492613 --2014-03-15	TTF	12 MAURICE AVE OSSINING, NY	0.18 NNW	+ 51	206
O63	NY LTANKS --9908532 / 2004-03-30 --197747 --1999-10-13	A FIORE INC - PBS TTF	205 SOUTH HIGHLAND AVE OSSINING, NY	0.19 SSW	- 152	208
O64	NY DRYCLEANERS --3-5542-00123	WESTVIEW CLEANERS	194 NORTH HIGHLAND AVENUE OSSINING, NY 10562	0.20 SSW	- 154	210
Q65	NY MANIFEST --NYD982717498	OSSINING AUTO BODY	231 S HIGHLAND AVE OSSINING, NY 10562	0.20 SSW	- 150	211
Q65	RCRA-VSQG --NYD982717498	OSSINING AUTO BODY	231 S HIGHLAND AVE OSSINING, NY 10562	0.20 SSW	- 150	213
66	NY AST --3-801327 --1. In-Service	CAPPELLO'S AUTO REPAIR	184 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.20 SW	- 149	220
67	NY LTANKS --9705661 / 1997-11-10 --62059 --1997-08-09	BILL BEERY RESIDENCE	30 LAFAYETTE AVE OSSINING, NY	0.20 West	- 51	223
68	NY LTANKS --0204443 / 2003-01-28 --92142 --2002-07-29	OSSINING CHILDREN CENTER	90 SOUTH HIGHLAND AVE OSSINING, NY	0.20 NW	+ 14	225
Q69	PA MANIFEST --NYR000194662	CVS PHARMACY # 2080	202 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 151	227

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Q70	NY MANIFEST --NYR000194662	CVS PHARMACY #2080	202 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 151	232
Q70	RCRA-VSQG --NYR000194662	CVS PHARMACY #2080	202 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 151	234
71	NY LTANKS --0107686 / 2010-07-06 --230021 --2001-10-26	RESIDENTIAL TTF	40 WOLDEN ROAD OSSINING, NY	0.21 North	+ 18	248
O72	NY AST --3-800803 --1. In-Service	CORSI TIRE OF OSSINING	200 SOUTH HIGHLAND AVENUE OSSINING (T), NY 10562	0.21 SSW	- 156	250
Q73	NY MANIFEST --NY0000280263	PHIL'S CLEANER	222 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 149	254
Q73	NY DRYCLEANERS --3-5542-00103	PHIL'S CLEANER	222 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 149	255
Q73	RCRA-VSQG --NY0000280263	PHIL'S CLEANER	222 S HIGHLAND AVE OSSINING, NY 10562	0.21 SSW	- 149	262
R74	NY MANIFEST --NYP004218760	CON EDISON MANHOLE 2660	S HIGHLAND AVE & WILLIAM OSSINING, NY 10562	0.21 NW	+ 26	267
R74	NJ MANIFEST --NYP004218760	CON EDISON MANHOLE 2660	S HIGHLAND AVE & WILLIAM OSSINING, NY 10562	0.21 NW	+ 26	269
R74	RCRA NonGen / NLR --NYP004218760	CON EDISON MANHOLE 2660	S HIGHLAND AVE & WILLIAM OSSINING, NY 10562	0.21 NW	+ 26	271
S75	NY LTANKS --8703277 / 1988-10-05 --304673 --1987-07-22	WARNE	REVOLUTIONARY RD OSSINING, NY	0.22 SW	- 138	274

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R76	NY LTANKS --0200593 / 2002-08-01 --314217 --2002-04-16	SPILL NUMBER 0200593	75 SOUTH HIGHLAND AVE OSSINING, NY	0.23 NW	+ 34	276
77	NY LTANKS --1504871 / 2016-01-14 --511224 --2015-08-05	CONNELLY - TTF CONTAMIN	24 NELSON AVE OSSINING, NY	0.23 WSW	- 61	278
S78	NY LTANKS --1108366 / 2011-12-30 --456095 --2011-09-30	RESIDENCE	22 REVOLUTIONARY RD OSSINING, NY	0.23 SW	- 127	280
T79	NY LTANKS --0813216 / 2009-05-06 --410891 --2009-03-07	WILLIAMS ESTATE	5 EVERETT AVENUE OSSINING, NY	0.26 WNW	- 24	282
R80	NY LTANKS --0410959 / 2005-02-27 --336062 --2005-01-07	PRIVATE RES	70 SOUTH HIGHLAND AVE OSSINING, NY	0.26 NW	+ 18	284
U81	NY LTANKS --0413203 / 2005-05-08 --339064 --2005-03-18	RESIDENCE	22 EMWILTON PLACE OSSINING, NY	0.27 North	+ 22	286
U82	NY LTANKS --0501294 / 2005-06-19 --344430 --2005-05-02	COSTELLO HOME	20 EMWILTON PLACE OSSINING, NY	0.28 NNW	+ 27	288
83	NY SWF/LF	DOMINICAN SISTERS	UNKNOWN OSSINGING, NY	0.28 SW	- 157	290
84	NY LTANKS --1305250 / 2015-04-10 --485809 --2013-08-13	OSSINING CLUB - TTF	2 LINCOLN PLACE OSSINING, NY	0.28 NNW	+ 33	291
T85	NY LTANKS --0712186 / 2010-04-20 --393740 --2008-02-19	PRIVATE HOME	13-15 EDWARD ST OSSINING, NY	0.28 NW	- 19	293

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V86	NY LTANKS --0703121 / 2007-09-05 --382985 --2007-06-15	STAPLETON RESIDENCE	25 WALDEN AVE OSSINING, NY	0.29 North	+ 36	295
V87	NY LTANKS --0700912 / 2013-01-30 --380295 --2007-04-23	STAPLETON	25 WOLDEN ROAD OSSINING, NY	0.29 North	+ 36	297
W88	NY LTANKS --1308106 / 2014-05-06 --488820 --2013-11-08	NANCY DELAND - UST	5 CEDAR PLACE OSSINING, NY	0.30 NNW	+ 46	299
89	NY LTANKS --9911811 / 2000-09-11 --78026 --2000-01-11	SHEFFEL RESIDENCE	501 SCARBOROUGH RD OSSINING, NY	0.30 South	- 43	301
W90	NY LTANKS --9810092 / 2003-12-05 --97538 --1998-11-10	WATERBURY KELLY FUNERAL H	45 SOUTH HIGHLAND OSSINING, NY	0.32 NNW	+ 38	303
91	NY LTANKS --0910049 / 2010-02-24 --422788 --2009-12-10	NACINOVICH RESIDENCE	2 ACKER AVE OSSINING, NY	0.33 WSW	- 28	305
W92	NY LTANKS --9911901 / 2003-06-13 --233251 --2000-01-13	SPILL NUMBER 9911901	43 SOUTH HIGHLAND AVE OSSINING, NY	0.33 NNW	+ 36	307
X93	NY LTANKS --1008118 / 2011-03-01 --441587 --2010-11-02	PRIVATE RESIDENCE	20 FAIRVIEW PLACE OSSINING, NY	0.34 SW	- 122	309
Y94	NY LTANKS --0601995 / 2006-10-29 --364369 --2006-05-23	GALINA RESIDENCE	525 SCARBOROUGH ROAD BRIARCLIFF, NY	0.36 South	- 7	311

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95	NY LTANKS --0308864 / 2003-11-20 --324495 --2003-11-20	RESIDENTIAL OVERFILL	282 SPRING ST OSSINING, NY	0.36 WSW	- 42	313
X96	NY LTANKS --0002997 / 2000-07-13 --286048 --2000-06-09	RESIDENCE	15 FAIRVIEW PLACE OSSINING, NY	0.36 SW	- 90	315
97	NY LTANKS --0907361 / 2017-12-11 --419879 --2009-09-30	FORECLOSURE - TTF	20 OVERTON RD OSSINING, NY	0.36 North	+ 118	317
98	NY LTANKS --0004886 / 2001-09-19 --257280 --2000-07-24	UNITED METHODIST CHURCH	3 EMWILTON PLACE OSSINING, NY	0.37 NNW	+ 21	319
99	NY LTANKS --0212737 / 2010-07-06 --310110 --2003-03-24	JARA RESIDENCE	238 SPRING STREET OSSINING, NY	0.37 West	- 34	321
100	NY LTANKS --9506790 / 1995-11-10 --92483 --1995-09-02	RESIDENCE	49 JAMES STREET OSSINING, NY	0.38 NW	- 36	323
Z101	NY LTANKS --0700116 / 2012-08-17 --379397 --2007-04-04	FARRELL HOME	7 WALDEN ROAD OSSINING, NY	0.38 North	+ 35	325
Z102	NY LTANKS --0702603 / 2008-09-08 --382359 --2007-06-01	GRACE ALLIANCE CHURCH	7 WOLDEN ROAD OSSINING, NY	0.38 North	+ 35	327
103	NY LTANKS --0404685 / 2004-11-09 --182432 --2004-07-30	ACOSTA RESIDENCE	47 UNDERHILL RD OSSINING, NY	0.38 NNE	+ 112	329

Sites Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
Y104	NY LTANKS --9911865 / 2000-01-14 --271153 --2000-01-12	SCHEFFEL - TTF	501 SCARBOROUGH RD BRIARCLIFF MANOR, NY	0.39 South	- 32	331
AA105	NY LTANKS --9800819 / 2000-12-20 --68531 --1998-03-20	BRIAR CREST NURSING HOME	31 OVERTON RD OSSINING, NY	0.41 North	+ 119	333
106	NY LTANKS --0610141 / 2007-02-07 --374524 --2006-12-06	JACQUETTE RESIDENCE	104 FARM ROAD BRIARCLIFF MANOR, NY	0.41 NE	+ 152	335
107	NY LTANKS --1200902 / 2012-07-24 --463565 --2012-04-27	BARRETT RESIDENCE	119 REVOLUTIONARY RD SCARBOROUGH, NY	0.41 SSW	- 148	337
108	NY LTANKS --0603027 / 2006-10-29 --365641 --2006-06-19	IFCA	67 STATE ST OSSINING, NY	0.41 WNW	- 51	339
AA109	NY LTANKS --0100978 / 2001-05-14 --266931 --2001-04-19	SPILL NUMBER 0100978	21 OVERTON RD OSSINING, NY	0.41 North	+ 90	341
110	NY LTANKS --9907602 / 2000-03-06 --0607093 / 2008-06-10 --105168 --370555 --1999-09-23 --2006-09-20 *Additional key fields are available in the Map Findings section	PARRINO	123 MARLBOROUGH RD BRIARCLIFF MANOR, NY	0.42 South	- 101	343
111	SEMS-ARCHIVE --0203674 --NYD987001450	OSSINING HISTORICAL SOCIETY	36 SOUTH HIGHLAND AVENUE OSSINING, NY 10562	0.42 NNW	+ 4	346
112	NY LTANKS --9905463 / 2000-10-23 --107048 --1999-08-05	PRIVATE RESIDENCE	162 OLD BRIARCLIFF RD BRIARCLIFF, NY	0.42 East	+ 221	348

Sites Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
113	NY LTANKS --0501672 / 2005-08-28 --345909 --2005-05-11	JOYCE HOME	530 SCARBOROUGH ROAD BRIARCLIFF, NY	0.43 South	+ 31	350
114	NY LTANKS --0103048 / 2002-01-22 --122953 --2001-06-19	AGID TTF	99 LAW ROAD BRIARCLIFF, NY	0.44 SSE	+ 221	352
115	NY LTANKS --0501873 / 2005-07-17 --346123 --2005-05-16	COMMERCIAL	6 ROCKLEDGE AVE OSSINING, NY	0.44 SW	- 150	354
AB116	NY LTANKS --0410382 / 2005-03-05 --335404 --2004-12-17	PRIVATE RESIDENCE	40 ELLIS PLACE OSSINING, NY	0.44 North	+ 41	356
AC117	NY LTANKS --0502061 / 2005-10-18 --346347 --2005-05-18	RESIDENCE	54 ELLIS PLACE OSSINING, NY	0.44 North	+ 74	358
AC118	NY LTANKS --0610826 / 2007-02-07 --375338 --2006-12-26	PRIVATE HOME	56 ELLIS PLACE OSSINING, NY	0.44 North	+ 82	360
AD119	NY LTANKS --0600416 / 2012-08-15 --362405 --2006-04-05	RESIDENCE	15 BROWNING DRIVE OSSINING, NY	0.45 NNE	+ 150	362
120	NY LTANKS --0514430 / 2006-06-16 --361152 --2006-03-15	SCARBOROUGH FIRE STATION	591 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY	0.45 South	- 55	364
AE121	NY LTANKS --1001472 / 2010-06-23 --434531 --2010-05-06	WIENER RESIDENCE	208 OLD BRIARCLIFF RD BRIARCLIFF MANOR, NY	0.45 ENE	+ 234	366

Sites Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
122	NY LTANKS --0713754 / 2008-05-27 --395565 --2008-03-28	KNAPP RESIDENCE	3A BIRCH BROOK RD OSSINING, NY	0.45 North	+ 146	368
AB123	NY LTANKS --0501071 / 2005-05-12 --344207 --2005-04-26	AMBROSIA HOME	30 ELLIS PLACE OSSINING, NY	0.45 North	+ 33	370
AF124	NY LTANKS --9701102 / 1997-04-30 --176505 --1997-04-24	RESIDENCE	6 BROAD AVE OSSINING, NY	0.46 NW	- 52	372
AG125	NY LTANKS --0207217 / 2004-03-19 --290101 --2002-10-11	POLE #13	100 SPRING STREET OSSINING, NY	0.46 NW	- 50	374
126	NY LTANKS --9301877 / 1993-07-19 --0511794 / 2007-03-05 --294439 --358028 --1993-05-10 --2006-01-12 *Additional key fields are available in the Map Findings section	CAMBRIDGE MEDICAL INSTRUMENTS	73 SPRING ST OSSINING, NY 10562	0.47 NW	- 47	376
127	NY LTANKS --9904517 / 2000-03-20 --246174 --1999-07-16	SPILL NUMBER 9904517	338 SPRING ST OSSINING, NY	0.47 SW	- 147	380
AG128	NY LTANKS --1100638 / 2011-08-22 --448047 --2011-04-18	EMPTY WAREHOUSE	104 SPRING STREET OSSINING, NY	0.47 NW	- 50	382
AD129	NY LTANKS --0403172 / 2004-12-27 --227141 --2004-06-23	FERRARI RESIDENCE	21 BROWNING DRIVE OSSINING, NY	0.48 NNE	+ 161	384

Sites Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
AE130	NY LTANKS --1202214 / 2012-08-27 --464968 --2012-06-04	THEISS RESIDENCE	48 CENTRAL DR WEST BRIARCLIFF MANOR, NY	0.48 ENE	+ 237	386
AH131	NY LTANKS --9902515 / 1999-07-27 --141912 --1999-06-04	SPILL NUMBER 9902515	302 LAW ROAD BRIARCLIFF MANOR, NY	0.48 South	+ 56	388
132	NY LTANKS --9607601 / 1996-09-18 --256695 --1996-09-17	SPILL NUMBER 9607601	9 WALLER AVE OSSINING, NY	0.48 NW	- 49	390
133	NY LTANKS --9912639 / 2000-05-04 --71605 --2000-02-05	SPILL NUMBER 9912639	67 UNDERHILL RD OSSINING, NY	0.48 NNE	+ 123	392
134	NY LTANKS --0000032 / 2000-08-29 --209709 --2000-03-31	SPILL NUMBER 0000032	30 W. CENTRAL DRIVE BRIARCLIFF MANOR, NY	0.49 ENE	+ 240	394
AH135	NY LTANKS --9502518 / 1995-07-21 --231956 --1995-05-30	RESIDENCE	299 LAW ROAD BRIARCLIFF MANOR, NY	0.49 South	+ 69	396
AF136	NY SHWS --56068	PRINTER CORP.	34 STATE STREET OSSINING, NY	0.49 NW	- 47	398
AF137	SEMS-ARCHIVE --0201501 --NYD013008446	PRINTEX CORP	34 STATE ST OSSINING, NY 10562	0.49 NW	- 47	400
138	NY SHWS --566785	CE- OSSINING MGP	39 CENTRAL AVE. AND 30 WA OSSINING, NY 10562	0.70 NW	- 186	402

Sites Summary Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

TOTAL: 159 GEOCODED: 156 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	NY LTANKS --0508118 / 2006-02-03 --353644 --2005-10-06	CONDO	BRAIRCLIFF DRIVE SOUTH OSSINING, NY	NON GC	N/A	N/A
	NY LTANKS --1602644 / 2016-07-18 --529057 --2016-06-15	KATONAH MANAGEMENT - TTF	BRIARCLIFF SOUTH OSSINING, NY	NON GC	N/A	N/A
	NY LTANKS --1505167 / 2015-12-09 --1503968 / 2015-12-09 --512517 --510289 --2015-08-13 --2015-07-13	LYNCH - TTF	11 MEADOW BROOK DR OSSINING, NY	NON GC	N/A	N/A

*Additional key fields are available in the Map Findings section

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY MANIFEST

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/01/2019
ID/Status: NYD047931902

NY MANIFEST:
Name: PHILIPS LABORATORIES
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF MANOR, NY 10510
Country: USA
EPA ID: NYD047931902
Facility Status: Not reported
Location Address 1: 345 SCARBOROUGH ROAD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRIARCLIFF MANOR
Location State: NY
Location Zip: 10610
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD047931902
Mailing Name: PHILIPS LABORATORIES
Mailing Contact: WILLIAM OSBORNE
Mailing Address 1: 2 CANAL PARK 3RD FLOOR
Mailing Address 2: Not reported
Mailing City: CAMBRIDGE
Mailing State: MA
Mailing Zip: 02141
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 9149456170

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: MAD039322250
Trans2 State ID: ALD067138891
Generator Ship Date: 12/03/2015
Trans1 Recv Date: 12/03/2015
Trans2 Recv Date: 12/10/2015
TSD Site Recv Date: 12/15/2015
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD047931902
Trans1 EPA ID: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY MANIFEST

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: NY Department of Environmental Conservation

Rev: 01/01/2019
ID/Status: NYD047931902

Trans2 EPA ID: Not reported
TSDF ID 1: NCD000648451
TSDF ID 2: Not reported
Manifest Tracking Number: 008795692FLE
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H141
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 1
Units: P - Pounds
Number of Containers: 1
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1
Waste Code: D001
Waste Code 1_2: Not reported
Waste Code 1_3: Not reported
Waste Code 1_4: Not reported
Waste Code 1_5: Not reported
Waste Code 1_6: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

FINDS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US EPA

Rev: 11/04/2021
ID/Status: 110000807690

FINDS:
Registry ID: 110000807690

Click Here:

Environmental Interest/Information System:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.
AIR MINOR
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

US AIRS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US EPA

Rev: 10/12/2016
ID/Status: 110004366604

US AIRS MINOR:
Envid: 1000286371
Region Code: 02
Programmatic ID: AIR NY0000003553400060
Facility Registry ID: 110000807690
D and B Number: Not reported
Primary SIC Code: 3674
NAICS Code: 334413
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000003553400060
Facility Registry ID: 110000807690
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

SPILLS:
Name: WEST SIDE OF BUILDING
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0701008 / 2007-12-10
Facility ID: 0701008
Facility Type: ER
DER Facility ID: 329903
Site ID: 380453
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: Not reported
SWIS: 6042
Spill Date: 2007-04-20
Investigator: TDGHIOSA
Referred To: Not reported
Reported to Dept: 2007-04-24
CID: 408
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-04-24
Spill Record Last Update: 2007-12-10
Spiller Name: WILLIAM OSBORNE
Spiller Company: WEST SIDE OF BUILDING
Spiller Address: 345 SCARBOROUGH RD
Spiller Company: 001
Contact Name: WILLIAM OSBORNE
DEC Memo: ""
Remarks: "SPILL ON CONCRETE PAD AND SOIL; SOIL HAS BEEN REMOVED AND PLACED IN DRUMS; IS REPORTED TO NRC #832-905; HAS BEEN FULLY CLEANED;"

All Materials:
Site ID: 380453
Operable Unit ID: 1137935
Operable Unit: 01
Material ID: 2127896
Material Code: 0015
Material Name: motor oil

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9211458 / 1993-01-07
Facility ID: 9211458
Facility Type: ER
DER Facility ID: 107528
Site ID: 124105
DEC Region: 3
Spill Cause: Human Error
Spill Class: C3
SWIS: 6000
Spill Date: 1993-01-06
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1993-01-06
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: 1993-01-07
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2003-12-02
Spill Record Last Update: 2003-12-02
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY "
Remarks: "MANHOLE COVER ON TOP OF TANK WAS LEFT OPEN SPILL CONTAINED ON TOP OF TANK NEW ENGLAND TANK HAS BEEN CALLED TO RECOVER EXCESS"

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

All Materials:
Site ID: 124105
Operable Unit ID: 978421
Operable Unit: 01
Material ID: 404860
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 100.00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: ROADWAY
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9503630 / 1995-07-07
Facility ID: 9503630
Facility Type: ER
DER Facility ID: 107528
Site ID: 124106
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C4
SWIS: 6000
Spill Date: 1995-06-23
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1995-06-24
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Local Agency
Cleanup Ceased: 1995-07-07
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2003-12-02
Spill Record Last Update: 2003-12-02
Spiller Name: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

Spiller Company: Not reported
Spiller Address: Not reported
Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY "
Remarks: "EPS HIRED TO CLEAN UP"

All Materials:
Site ID: 124106
Operable Unit ID: 1018112
Operable Unit: 01
Material ID: 365134
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

Name: PHILIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9703570 / 1997-11-10
Facility ID: 9703570
Facility Type: ER
DER Facility ID: 107528
Site ID: 124108
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C3
SWIS: 6000
Spill Date: 1997-06-23
Investigator: BUZZELLI
Referred To: Not reported
Reported to Dept: 1997-06-23
CID: 266
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: True

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1997-06-23
Spill Record Last Update: 1998-01-29
Spiller Name: ROB BELANGER
Spiller Company: PHILIPS LABORATORIES
Spiller Address: 345 SCARBOROUGH ROAD
Spiller Company: 001
Contact Name: ROB BELANGER
DEC Memo: ""
Remarks: "A FLOAT STUCK CAUSING DAY TANK TO OVERFLOW THROUGH THE VENT LINE. ONTO SOIL. CONFINED WITH BOOMS. PERSONNEL ENROUTE TO SCENE FOR CLEANUP."

All Materials:
Site ID: 124108
Operable Unit ID: 1049483
Operable Unit: 01
Material ID: 336449
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 100.00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PHILIPS RESEARCH
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0410334 / 2009-11-05
Facility ID: 0410334
Facility Type: ER
DER Facility ID: 370418
Site ID: 335388
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: B3
SWIS: 6042
Spill Date: 2004-12-17
Investigator: jkomara

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0701008 / 2007-12-10
ID/Status: 9211458 / 1993-01-07
ID/Status: 9503630 / 1995-07-07
ID/Status: 9703570 / 1997-11-10
ID/Status: 0410334 / 2009-11-05

Referred To: WCHD
Reported to Dept: 2004-12-17
CID: 444
Water Affected: Not reported
Spill Source: Non Major Facility > 1,100 gal
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2004-12-20
Spill Record Last Update: 2009-11-05
Spiller Name: BOB BENGLER
Spiller Company: PHILIPS RESEARCH
Spiller Address: 345 SCARBORO ROAD
Spiller Company: 001
Contact Name: BOB BENGLER
DEC Memo: "12/21/04 PBS FACILITY. REMOVAL OF 20K GALLON TANK. SPILL BEING HANDLED BY CINDY BADOLATO OF THE WESTCHESTER COUNTY HEALTH DEPT. jbo 11/05/09 closed by WCHD on 9/20/05 JO'M"
Remarks: "FOUND CONTAMIONATED SOIL:"

All Materials:
Site ID: 335388
Operable Unit ID: 1097457
Operable Unit: 01
Material ID: 577442
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9207085 / 1993-08-27
ID/Status: 9605979 / 1997-01-07
ID/Status: 124104
ID/Status: 124107
ID/Status: 1992-09-18

LTANKS:
Name: PHILLIPS LAB
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9207085 / 1993-08-27
Facility ID: 9207085
Site ID: 124104
Spill Date: 1992-09-18
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: C3
Cleanup Ceased: 1993-08-27
SWIS: 6000
Investigator: WXWADSWO
Referred To: Not reported
Reported to Dept: 1992-09-18
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1992-09-22
Spill Record Last Update: 2004-07-13
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 107528
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was WADSWORTH 09/27/95: This is additional information about material spilled from the translation of the old spill file: TANK TEST."
Remarks: "WILL EIR PETRO-TITE"

All TTF:
Facility ID: Not reported
Spill Number: 9207085
Spill Tank Test: 1540592
Site ID: 124104

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9207085 / 1993-08-27
ID/Status: 9605979 / 1997-01-07
ID/Status: 124104
ID/Status: 124107
ID/Status: 1992-09-18

Tank Number: Not reported
Tank Size: 0
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 00
Test Method 2: Unknown
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 124104
Operable Unit ID: 970782
Operable Unit: 01
Material ID: 554228
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9605979 / 1997-01-07
Facility ID: 9605979
Site ID: 124107
Spill Date: 1996-08-08
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: C3
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1996-08-08

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9207085 / 1993-08-27
ID/Status: 9605979 / 1997-01-07
ID/Status: 124104
ID/Status: 124107
ID/Status: 1992-09-18

CID: 266
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1996-08-08
Spill Record Last Update: 1997-02-27
Spiller Name: ROB BELANGER
Spiller Company: PHILLIPS LABORATORIES
Spiller Address: 345 SCARBOROUGH ROAD
Spiller County: 001
Spiller Contact: ROB BELANGER
Spiller Phone: (914) 945-6000
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 107528
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY 01/07/97 TANK AND CONTAMINATED SOIL REOVED; SMALL AMOUNT OF CONTAMINATION REMAINS DUE TO SITE CONSTRAINTS. "
Remarks: "TANK TO BE UNCOVERED, ISOLATED, AND RETESTED."

All TTF:
Facility ID: Not reported
Spill Number: 9605979
Spill Tank Test: 1544677
Site ID: 124107
Tank Number: Not reported
Tank Size: 1000
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 14
Test Method 2: VacuTest
Leak Rate: .00
Gross Fail: F
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 124107

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9207085 / 1993-08-27
ID/Status: 9605979 / 1997-01-07
ID/Status: 124104
ID/Status: 124107
ID/Status: 1992-09-18

Operable Unit ID: 1036794
Operable Unit: 01
Material ID: 556483
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

RCRA-VSQG:
Date Form Received by Agency: 20070101
Handler Name: PHILIPS RESEARCH
Handler Address: 345 SCARBOROUGH RD
Handler City,State,Zip: BRIARCLIFF MANOR, NY 10510
EPA ID: NYD047931902
Contact Name: WILLIAM N OSBORNE
Contact Address: SCARBOROUGH RD
Contact City,State,Zip: BRIARCLIFF MANOR, NY 10510
Contact Telephone: 914-945-6000
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 02
Land Type: Not reported
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: NY
State District: NYSDEC R3
Mailing Address: SCARBOROUGH RD
Mailing City,State,Zip: BRIARCLIFF MANOR, NY 10510
Owner Name: NORTH AMERICAN PHILIPS CORP
Owner Type: Private
Operator Name: NORTH AMERICAN PHILIPS CORP
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: NN
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2001

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Waste Code: F007
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Waste Code: F008
Waste Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: F009
Waste Description: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: P010
Waste Description: ARSENIC ACID H3ASO4

Waste Code: P011
Waste Description: ARSENIC OXIDE AS2O5 (OR) ARSENIC PENTOXIDE

Waste Code: P014
Waste Description: BENZENETHIOL (OR) THIOPHENOL

Waste Code: P015
Waste Description: BERYLLIUM

Waste Code: P022
Waste Description: CARBON DISULFIDE

Waste Code: P038
Waste Description: ARSINE, DIETHYL- (OR) DIETHYLARSINE

Waste Code: P076
Waste Description: NITRIC OXIDE (OR) NITROGEN OXIDE NO

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U019
Waste Description: BENZENE (I,T)

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U045

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Waste Description: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

Waste Code: U078
Waste Description: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

Waste Code: U108
Waste Description: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

Waste Code: U138
Waste Description: METHANE, IODO- (OR) METHYL IODIDE

Waste Code: U140
Waste Description: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

Waste Code: U151
Waste Description: MERCURY

Waste Code: U227
Waste Description: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: NORTH AMERICAN PHILIPS CORP
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NORTH AMERICAN PHILIPS CORP
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Owner/Operator Indicator: Owner
Owner/Operator Name: NORTH AMERICAN PHILIPS CORP
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990721
Handler Name: PHILIPS LABORATORIES
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: PHILIPS RESEARCH
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: PHILIPS RESEARCH
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19851108
Handler Name: PHILIPS LABORATORIES
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920305
Handler Name: PHILIPS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960328
Handler Name: PHILIPS LABORATORIES
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Electronic Manifest Broker: Not reported

Receive Date: 19980227
Handler Name: PHILIPS RESEARCH LABORATORIES
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: PHILIPS RESEARCH
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020225
Handler Name: PHILIPS RESEARCH
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 32511
NAICS Description: PETROCHEMICAL MANUFACTURING

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

NAICS Code: 325188
NAICS Description: ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

NAICS Code: 334413
NAICS Description: SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

NAICS Code: 334419
NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

NAICS Code: 54171
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 19980917
Actual Return to Compliance Date: 19981007
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: 19981028
Enforcement Identifier: 000
Date of Enforcement Action: 19980917
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: R2
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R2MD
Enforcement Responsible Sub-Organization: RCB
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20100311
Actual Return to Compliance Date: 20100311
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20100318
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYFKY
Enforcement Responsible Sub-Organization: R3
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19890922
Actual Return to Compliance Date: 19900321
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Scheduled Compliance Date: 19900131
Enforcement Identifier: 001
Date of Enforcement Action: 19891106
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYDEC
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20100311
Actual Return to Compliance Date: 20100311
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20100318
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYFKY
Enforcement Responsible Sub-Organization: R3
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20100311
Actual Return to Compliance Date: 20100311
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20100318
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYFKY
Enforcement Responsible Sub-Organization: R3
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20100311
Actual Return to Compliance Date: 20100311
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20100318
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYFKY
Enforcement Responsible Sub-Organization: R3
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19981007
Evaluation Responsible Agency: EPA

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Found Violation: No
Evaluation Type Description: NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19980827
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2MD
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: 19981007
Scheduled Compliance Date: 19981028
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100311
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYFKY
Evaluation Responsible Sub-Organization: R3
Actual Return to Compliance Date: 20100311
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19890922
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19900321
Scheduled Compliance Date: 19900131

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER
SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20031223
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2RV
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100311
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYFKY
Evaluation Responsible Sub-Organization: R3
Actual Return to Compliance Date: 20100311
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100311
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYFKY
Evaluation Responsible Sub-Organization: R3
Actual Return to Compliance Date: 20100311
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100311

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

RCRA-VSQG

EDR ID: 1000286371 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A1

NAME: PHILIPS RESEARCH

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US Environmental Protection Agency

Rev: 09/13/2021
ID/Status: NYD047931902

Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYFKY
Evaluation Responsible Sub-Organization: R3
Actual Return to Compliance Date: 20100311
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19980917
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

FINDS

EDR ID: 1026235058 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A2

NAME: PHILLIPS RESEARCH LABORATORIES **Rev:** 11/04/2021

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY 10510
WESTCHESTER

SOURCE: US EPA

FINDS:
Registry ID: 110045710806

Click Here:

Environmental Interest/Information System:
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

ERNS

EDR ID: 2007832905 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A3

NAME:

ADDRESS: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: US National Response Center, United States Coast Guard

Rev: 12/31/2021
ID/Status: 832905
ID/Status: 2007-04-20 14:06:00

Incident Commons:
NRC Report #: 832905
Description of Incident: CALLER IS REPORTING A DISCHARGE OF MOTOR OIL FROM THE SUMP OF AN EMERGENCY GENERATOR DUE TO DRAIN PLUG MIGHT HAVE BEEN LEFT OPEN AFTER BEING SERVICED.
Type of Incident: FIXED
Incident Cause: OPERATOR ERROR
Incident Date Time: 2007-04-20 14:06:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 345 SCARBOROUGH ROAD
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: BRIARCLIFF MANOR
Location State: NY
Location County: WESTCHESTER
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: N

Incidents:
NRC Report #: 832905
Aircraft Type: Not reported
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

ERNS

EDR ID: 2007832905 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A3

NAME:

ADDRESS: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: US National Response Center, United States Coast Guard

Rev: 12/31/2021
ID/Status: 832905
ID/Status: 2007-04-20 14:06:00

Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: OTHER
Power Generating Facility: N
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: Not reported
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: N
Pipeline Covered: U
Railroad Hotline: Not reported
Grade Crossing: U
Location Subdivision: Not reported
Railroad Milepost: Not reported
Type Vehicle Involved: Not reported
Crossing Device Type: Not reported
Device Operational: Y
DOT Crossing Number: Not reported
Brake Failure: U
Description of Tank: Not reported
Tank Above Ground: ABOVE
Transportable Container: U
Tank Regulated: U
Tank Regulated By: Not reported
Tank ID: Not reported
Capacity of Tank: Not reported
Capacity of Tank Units: Not reported
Actual Amount: Not reported
Actual Amount Units: Not reported
Platform Rig Name: Not reported
Platform Letter: Not reported
Location Area ID: Not reported
Location Block ID: Not reported
OCSG Number: Not reported
OCSP Number: Not reported
State Lease Number: Not reported
Pier Dock Number: Not reported
Berth Slip Number: Not reported
Continuous Release Type: Not reported
Initial Continuous Release No: Not reported
Continuous Release Permit: Not reported
Allision: U

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

ERNS

EDR ID: 2007832905 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A3

NAME:

ADDRESS: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: US National Response Center, United States Coast Guard

Rev: 12/31/2021
ID/Status: 832905
ID/Status: 2007-04-20 14:06:00

Type of Structure: Not reported
Structure Name: Not reported
Structure Operational: U
Airbag Deployed: U
Date Tiem Normal Service: Not reported
Service Disruption Time: Not reported
Service Disruption Units: Not reported
Transit Bus Flag: Not reported
CR Begin Date: Not reported
CR End Date: Not reported
CR Change Date: Not reported
FBI Contact: Not reported
FBI Contact Date Time: Not reported
Sub Part C Testing Req: XXX
Conductor Testing: Not reported
Engineer Testing: Not reported
Trainman Testing: Not reported
Yard Foreman Testing: Not reported
RCL Operator Testing: Not reported
Brakeman Testing: Not reported
Train Dispatcher Testing: Not reported
Signalman Testing: Not reported
Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:
NRC Report #: 832905
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: N
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: N
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

ERNS

EDR ID: 2007832905 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A3

NAME:

ADDRESS: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: US National Response Center, United States Coast Guard

Rev: 12/31/2021
ID/Status: 832905
ID/Status: 2007-04-20 14:06:00

Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N
Track Closed: N
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: NONE
Medium Desc: SOIL
Additional Medium Info: / GRAVEL
Body of Water: Not reported
Tributary of: Not reported
Release Secured: Y
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: APPLIED OIL DRY TO SOAK UP THE OIL
State Agency on Scene: NONE
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: SUNNY
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: U
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported
Wave Condition: Not reported
Current Speed: Not reported
Current Direction: Not reported
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: Not reported
Wind Speed Unit: Not reported
Employee Injuries: Not reported
Passenger Injuries: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

ERNS

EDR ID: 2007832905 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A3

NAME:

ADDRESS: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: US National Response Center, United States Coast Guard

Rev: 12/31/2021
ID/Status: 832905
ID/Status: 2007-04-20 14:06:00

Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track CLosure Units: Not reported
Sheen Size Units: Not reported
Additional Info: CALLER HAD NO ADDITIONAL INFORMATION.
State Agency Notified: NONE
Federal Agency Notified: NONE
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:
NRC Report #: 832905
Site ID: 2007832905
Date Time Received: 2007-04-20 14:13:37
Date Time Complete: 2007-04-20 14:20:07
Call Type: INC
Responsible Company: PHILLIPS RESEARCH
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: BRIARCLIFF MANOR
Responsible State: NY
Responsible Zip: 10510
On Behalf: Y
Source: TELEPHONE

Material Involved:
NRC Report #: 832905
Chris Code: OMT
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 1
Unit of Measure: GALLON(S)
Name of Material: OIL, MISC: MOTOR
If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S114561558 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A4

NAME: PHILIPS
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 1308235 / 2013-11-13
ID/Status: 488958
ID/Status: 2013-11-13

SPILLS:
Name: PHILIPS
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 1308235 / 2013-11-13
Facility ID: 1308235
Facility Type: ER
DER Facility ID: 329903
Site ID: 488958
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: D4
SWIS: 6042
Spill Date: 2013-11-13
Investigator: MBMASTRO
Referred To: Not reported
Reported to Dept: 2013-11-13
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2013-11-13
Spill Record Last Update: 2013-11-14
Spiller Name: DAVID KNAPP
Spiller Company: PHILIPS
Spiller Address: 345 SCARBOROUGH RD
Spiller Company: 999
Contact Name: DAVID KNAPP
DEC Memo: "Spoke to C Lalak, WCDOH. This is a PBS facility so the caller informed Lalak of spill. Lalak sent the following email This spill can be closed out. 10 Gallons spilled in the boiler room. Contained and cleaned up with speedydry by the facility. No drains impacted, all contained to the concrete floor. ....mm "
Remarks: "boiler malfunction, contained to interior, c/u in progress"

All Materials:
Site ID: 488958
Operable Unit ID: 1238561
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S114561558 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A4

NAME: PHILIPS

ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 1308235 / 2013-11-13
ID/Status: 488958
ID/Status: 2013-11-13

Material ID: 2238483
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 10.00
Units: G
Recovered: Not reported
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9109356 / 1992-03-17
ID/Status: 9614999 / 1997-03-28
ID/Status: 172627
ID/Status: 172628
ID/Status: 1991-11-29

SPILLS:
Name: PHILIPS LABS
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 9109356 / 1992-03-17
Facility ID: 9109356
Facility Type: ER
DER Facility ID: 145287
Site ID: 172627
DEC Region: 3
Spill Cause: Abandoned Drums
Spill Class: C3
SWIS: 6000
Spill Date: 1991-11-29
Investigator: WCHD
Referred To: Westchester Cnty Health Dept
Reported to Dept: 1991-12-03
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Health Department
Cleanup Ceased: 1992-01-17
Cleanup Meets Std: True
Last Inspection: 1992-01-17
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1991-12-05
Spill Record Last Update: 2004-07-13
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller Company: 999
Contact Name: Not reported
DEC Memo: ""
Remarks: "MR. TORRES RESPONDING TO COMPLAINTS FROMPOLICE DEPT.AND V/BRIARCLIFF
ABOUT DRUMS LEAKING AT LAB KIDS WERE PLAYING IN AREA AND EXPOSED TO
DRUMSAND WERE HOSPITILIZED"

All Materials:
Site ID: 172627
Operable Unit ID: 963233
Operable Unit: 01
Material ID: 567537
Material Code: 0066A

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9109356 / 1992-03-17
ID/Status: 9614999 / 1997-03-28
ID/Status: 172627
ID/Status: 172628
ID/Status: 1991-11-29

Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: L
Recovered: .00
Oxygenate: Not reported

Name: PHILLIPS LAB
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 9614999 / 1997-03-28
Facility ID: 9614999
Facility Type: ER
DER Facility ID: 145287
Site ID: 172628
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C4
SWIS: 6000
Spill Date: 1997-03-27
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1997-03-27
CID: 257
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1997-03-28
Spill Record Last Update: 1997-04-10
Spiller Name: KEN HALGASH
Spiller Company: PRAXAIR INC
Spiller Address: PO BOX 44
Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY "
Remarks: "ABOUT ONE PINT LEAKED WHEN A HOSE BROKE - SPILL ALL CLEANED UP "

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9109356 / 1992-03-17
ID/Status: 9614999 / 1997-03-28
ID/Status: 172627
ID/Status: 172628
ID/Status: 1991-11-29

All Materials:
Site ID: 172628
Operable Unit ID: 1042551
Operable Unit: 01
Material ID: 340095
Material Code: 0010
Material Name: hydraulic oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: G
Recovered: 1.00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0205462 / 2002-09-26
ID/Status: 0403556 / 2004-12-10
ID/Status: 9108436 / 1991-11-25
ID/Status: 172624
ID/Status: 172625

LTANKS:
Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 0205462 / 2002-09-26
Facility ID: 0205462
Site ID: 172624
Spill Date: 2002-08-24
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: D3
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: WCHD
Referred To: Westchester Cnty Health Dept
Reported to Dept: 2002-08-24
CID: 257
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2002-08-24
Spill Record Last Update: 2004-07-13
Spiller Name: ROBERT BELLINGER
Spiller Company: PHILLIPS RESEARCH
Spiller Address: 345 SCARBOROUGH RD
Spiller County: 001
Spiller Contact: ROBERT BELLINGER
Spiller Phone: (914) 945-6178
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 145287
DEC Memo: ""
Remarks: "going to disconnect the piping and retest the tank "

All Materials:
Site ID: 172624
Operable Unit ID: 856911
Operable Unit: 01
Material ID: 519663
Material Code: 0001A
Material Name: #2 fuel oil

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0205462 / 2002-09-26
ID/Status: 0403556 / 2004-12-10
ID/Status: 9108436 / 1991-11-25
ID/Status: 172624
ID/Status: 172625

Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 0403556 / 2004-12-10
Facility ID: 0403556
Site ID: 172625
Spill Date: 2004-07-02
Spill Cause: Tank Test Failure
Spill Source: Non Major Facility > 1,100 gal
Spill Class: C3
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: WCHD
Referred To: WESTCHESTER CNTY HEALTH D
Reported to Dept: 2004-07-02
CID: 408
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2004-07-02
Spill Record Last Update: 2004-12-10
Spiller Name: ROBERT BELLINGER
Spiller Company: PHILLIPS RESEARCH
Spiller Address: 345 SCARBOROUGH RD
Spiller County: 001
Spiller Contact: ROBERT BELLINGER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 145287
DEC Memo: "12/10/04 PBS facility. Tank passed retest after piping was repaired.
Spill file closed by Danielle Jackson of the Westchester County
Health Dept. No further action is required at this time. jbo"

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0205462 / 2002-09-26
ID/Status: 0403556 / 2004-12-10
ID/Status: 9108436 / 1991-11-25
ID/Status: 172624
ID/Status: 172625

Remarks: "GOING TO CONTACT COMPANY TO ESCAVATE THE TANK TOP : ISOLATE AND RETEST"

All TTF:
Facility ID: Not reported
Spill Number: 0403556
Spill Tank Test: 1529408
Site ID: 172625
Tank Number: 2
Tank Size: 20000
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 00
Test Method 2: Unknown
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 172625
Operable Unit ID: 886925
Operable Unit: 01
Material ID: 491134
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH RD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 9108436 / 1991-11-25
Facility ID: 9108436
Site ID: 172626
Spill Date: 1991-11-07
Spill Cause: Tank Failure

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0205462 / 2002-09-26
ID/Status: 0403556 / 2004-12-10
ID/Status: 9108436 / 1991-11-25
ID/Status: 172624
ID/Status: 172625

Spill Source: Commercial/Industrial
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: jkomara
Referred To: Not reported
Reported to Dept: 1991-11-07
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1991-11-08
Spill Record Last Update: 2004-07-13
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller County: 999
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 145287
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'MARA "
Remarks: "WHILE EXCAVATING NEW FOUNDATION ENCONTERED OIL CONTAMINATED SOIL SOIL IS BEING STOCKPILED EXCAVATION AREA TO REMAIN OPEN FOR DEC INSPECTION U/G FUEL TANKS LOCATED AT SITE WASTE TRANS.NATIONAL WASTE DP"

All Materials:
Site ID: 172626
Operable Unit ID: 962515
Operable Unit: 01
Material ID: 420587
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S105996596 **DIST/DIR:** 0.000 **ELEVATION:** 216 **MAP ID:** A5

NAME: PHILLIPS RESEARCH
ADDRESS: 345 SCARBOROUGH RD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0205462 / 2002-09-26
ID/Status: 0403556 / 2004-12-10
ID/Status: 9108436 / 1991-11-25
ID/Status: 172624
ID/Status: 172625

Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NPL

EDR ID: 1000384273 **DIST/DIR:** 0.606 West **ELEVATION:** **MAP ID:** 0

NAME: HUDSON RIVER PCBS
ADDRESS: NO STREET APPLICABLE
HUDSON RIVER, NY 12871
WASHINGTON
SOURCE: US EPA

Rev: 01/25/2022
ID/Status: 202229
ID/Status: NYD980763841

NPL:
EPA Region: 2
EPA ID: NYD980763841
Site ID: 202229
Name: HUDSON RIVER PCBS
Address: NO STREET APPLICABLE
City,State,Zip: HUDSON RIVER, NY 12871
Federal: N
Final Date: 1984-09-21 00:00:00
Latitude: 43.1102
Longitude: -73.5765
Site Score: 54.659999999999997
NAI: Not reported
Native American Entity: Not reported

NPL:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
CAS Number: Not reported
Substance: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A046
CAS Number: 1336-36-3
Substance: POLYCHLORINATED BIPHENYLS
Pathway: AIR PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: A046
CAS Number: 1336-36-3
Substance: POLYCHLORINATED BIPHENYLS
Pathway: SURFACE WATER PATHWAY
Scoring: 4

Summary Details:
Conditions at listing September 1983): The Hudson River PCBs Site is a 40-mile stretch of the Hudson River between Mechanicville and Fort Edward, New York. General Electric Co. discharged an estimated l.l million pounds of PCBs into this stretch of river. The State has identified 40 hot spots, defined as sediments contaminated with greater than 50 parts per million ppm) of PCBs. Also included in the site are five remnant areas, which are

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NPL

EDR ID: 1000384273 **DIST/DIR:** 0.606 West **ELEVATION:** **MAP ID:** 0

NAME: HUDSON RIVER PCBS
ADDRESS: NO STREET APPLICABLE
HUDSON RIVER, NY 12871
WASHINGTON
SOURCE: US EPA

Rev: 01/25/2022
ID/Status: 202229
ID/Status: NYD980763841

river sediments exposed when thelevel of the river was lowered due to removal of the Fort Edward Dam. The State has taken initial measures to stabili e the remnant areas from erosion. In September 1980, Congress passed an amendment to the Clean Water Act CWA) that included the Hudson River PCB Reclamation Demonstration Project. Under this legislation, the EPA Administrator could authori e a 75 percent grant, not to exceed 20 million. EPA issued a final Environmental Impact Statement in October 1982 evaluating various dredging alternatives for a demonstration project. EPA has prepared a feasibility study to evaluate alternative remedial actions under CERCLA. The Administrator has determined that CERCLA funds may be used for remedial action atthe remnant areas and for evaluating the effectiveness of the water supply system at Waterford, New York. Status June 1984): EPA has completed a draft feasibility study identifying alternatives for remedial action. A search for partiespotentially responsible for wastes associated with the site has been completed, and EPA has sent letters to two potentially responsible parties notifying them of possible legal action under CERCLA.

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 0

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: HUDSON RIVER PCBS

NPL:
EPA Region: 02
Site ID: 0202229
Site Status: F
Federal Site: N
Date Deleted: Not reported
Date Finalized: 09/21/84
Date Proposed: 09/08/83

NPL:
Proposed Date: 09/08/1983
Final Date: 09/21/1984
Deleted Date: Not reported
NPL Status: Final

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S102240985 **DIST/DIR:** 0.000 **ELEVATION:** 280 **MAP ID:** B6

NAME: PHRLPS LABRATORY
ADDRESS: 190 HOOLBROOK ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9513598 / 1996-01-26
ID/Status: 282239
ID/Status: 1996-01-26

SPILLS:
Name: PHRLPS LABRATORY
Address: 190 HOOLBROOK ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9513598 / 1996-01-26
Facility ID: 9513598
Facility Type: ER
DER Facility ID: 229129
Site ID: 282239
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C3
SWIS: 6000
Spill Date: 1996-01-26
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1996-01-26
CID: 282
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1996-01-26
Spill Record Last Update: 1996-03-07
Spiller Name: JIM CAREY
Spiller Company: WILLOUGHBY CASTLE OIL
Spiller Address: 290 LOCUST AVE
Spiller Company: 001
Contact Name: MARCIA
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY 01/26/96 CLEANED UP BY CASTLE OIL"
Remarks: "broken deck hose from the front of the trailer to the pump. spill was cleaned up by the driver."

All Materials:
Site ID: 282239
Operable Unit ID: 1028082
Operable Unit: 01
Material ID: 357314
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S102240985 **DIST/DIR:** 0.000 **ELEVATION:** 280 **MAP ID:** B6

NAME: PHRLPS LABRATORY
ADDRESS: 190 HOOLBROOK ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9513598 / 1996-01-26
ID/Status: 282239
ID/Status: 1996-01-26

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 5.00
Units: G
Recovered: 5.00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S104621711 **DIST/DIR:** 0.012 ESE **ELEVATION:** 339 **MAP ID:** 7

NAME: RESIDENTS
ADDRESS: 100 HOLBROOK ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0002631 / 2000-10-04
ID/Status: 71750
ID/Status: 2000-06-01

LTANKS:
Name: RESIDENTS
Address: 100 HOLBROOK ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0002631 / 2000-10-04
Facility ID: 0002631
Site ID: 71750
Spill Date: 2000-06-01
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: jbodee
Referred To: Not reported
Reported to Dept: 2000-06-01
CID: 282
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2000-06-01
Spill Record Last Update: 2000-10-16
Spiller Name: SAME
Spiller Company: MR JOHN GRAQUINTO
Spiller Address: 100 HOLBROOK MANOR
Spiller County: 001
Spiller Contact: MR JOHN GRAQUINTO
Spiller Phone: (914) 273-7000
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 67848
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'DEE 10/04/2000 NES PULLED TANK AND DISPOSED OF 18.03 TONS OF CONTAMINATED SOIL. NFA"
Remarks: "TANK FAILED THE TEST."

All TTF:
Facility ID: Not reported
Spill Number: 0002631
Spill Tank Test: 1525654
Site ID: 71750

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S104621711 **DIST/DIR:** 0.012 ESE **ELEVATION:** 339 **MAP ID:** 7

NAME: RESIDENTS
ADDRESS: 100 HOLBROOK ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0002631 / 2000-10-04
ID/Status: 71750
ID/Status: 2000-06-01

Tank Number: 1
Tank Size: 1000
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 03
Test Method 2: Horner EZ Check I or II
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 71750
Operable Unit ID: 824146
Operable Unit: 01
Material ID: 550990
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S102560831 **DIST/DIR:** 0.014 NE **ELEVATION:** 287 **MAP ID:** B8

NAME: PRIVATE RESIDENCE
ADDRESS: 181 HOLBROOK ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9608347 / 1997-04-30
ID/Status: 9614799 / 1997-04-30
ID/Status: 78820
ID/Status: 78821
ID/Status: 1996-10-03

SPILLS:
Name: RESIDENCE
Address: 181 HOLBROOK ROAD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 9608347 / 1997-04-30
Facility ID: 9608347
Facility Type: ER
DER Facility ID: 393124
Site ID: 78820
DEC Region: 3
Spill Cause: Unknown
Spill Class: A3
SWIS: 6042
Spill Date: 1996-10-03
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1996-10-04
CID: 311
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Citizen
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1996-10-04
Spill Record Last Update: 2010-07-29
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller Company: 999
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY 10/04/96 W.C.H.D. INVESTIGATING 04/30/97 NES REMOVED 550 TANK & 58.59 TONS OF CONTAMINATED SOIL. SEE SPILL # 9614799 "
Remarks: "con ed crew noticed oil leaking into street and catch basin. they put pads down-however, this incident is not related to any of their work. it appears to be fuel oil coming from adj property."

All Materials:
Site ID: 78820
Operable Unit ID: 1039388
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S102560831 **DIST/DIR:** 0.014 NE **ELEVATION:** 287 **MAP ID:** B8

NAME: PRIVATE RESIDENCE
ADDRESS: 181 HOLBROOK ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9608347 / 1997-04-30
ID/Status: 9614799 / 1997-04-30
ID/Status: 78820
ID/Status: 78821
ID/Status: 1996-10-03

Material ID: 344084
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: PRIVATE RESIDENCE
Address: 181 HOLBROOK ROAD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 9614799 / 1997-04-30
Facility ID: 9614799
Facility Type: ER
DER Facility ID: 393124
Site ID: 78821
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: A3
SWIS: 6042
Spill Date: 1997-03-24
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1997-03-24
CID: 252
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1997-03-24
Spill Record Last Update: 2010-07-29
Spiller Name: PHYLLIS OSSEN
Spiller Company: PRIVATE RESIDENCE
Spiller Address: 181 HOLBROOK RD
Spiller Company: 001
Contact Name: PHYLLIS OSSEN
DEC Memo: " 04/30/97 NES REMOVED 550 GALLON TANK AND EXCAVATED 58.59 TONS OF

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S102560831 **DIST/DIR:** 0.014 NE **ELEVATION:** 287 **MAP ID:** B8

NAME: PRIVATE RESIDENCE
ADDRESS: 181 HOLBROOK ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9608347 / 1997-04-30
ID/Status: 9614799 / 1997-04-30
ID/Status: 78820
ID/Status: 78821
ID/Status: 1996-10-03

CONTAMINATED SOIL. SEE SPILL # 9608347. "
Remarks: "upon removal of 550 gal underground tank soil contamination was noticed-in process of being cleaned up"

All Materials:
Site ID: 78821
Operable Unit ID: 1046164
Operable Unit: 01
Material ID: 339903
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: G
Recovered: Not reported
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

LTANKS:
Name: BROOKE ASTOR ESTATE
Address: 298 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0301904 / 2003-12-15
Facility ID: 0301904
Site ID: 265417
Spill Date: 2003-05-22
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: C3
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: WCHD
Referred To: Westchester Cnty Health Dept
Reported to Dept: 2003-05-22
CID: 322
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2003-05-22
Spill Record Last Update: 2003-12-26
Spiller Name: CHRIS
Spiller Company: Not reported
Spiller Address: 298 SCARBOROUGH ROAD
Spiller County: 001
Spiller Contact: CHRIS
Spiller Phone: (914) 762-0953
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 216262
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was WCHD-SCHNEIDER 12/1/03: Letter to Christopher Ely from Wayne Schneider, WCDOH dated 19 Nov 2003. Closure report by Elite Environmental Services has been reviewed. Soil samples from the 2000 gallon tank excavation exceeded the TAGM guidelines. Addition groundwater samples must be obtained and analyzed. Results submitted to WCDOH by 10 Dec 2003. 12/15/03 TANK AND CONTAMINATED SOIL REMOVED. SOME RESIDUAL CONTAMINATION COULD NOT BE EXCAVATED BUT NO GROUND WATER IMPACTED. CLOSED BY WAYNE SCHNEIDER OF WCHD."

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

Remarks: "tank test failure "

All TTF:
Facility ID: Not reported
Spill Number: 0301904
Spill Tank Test: 1528400
Site ID: 265417
Tank Number: 1
Tank Size: 2000
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 03
Test Method 2: Horner EZ Check I or II
Leak Rate: .00
Gross Fail: F
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 265417
Operable Unit ID: 868463
Operable Unit: 01
Material ID: 506389
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: BROOKE ASTOR ESTATE
Address: 298 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0301905 / 2003-11-19
Facility ID: 0301905
Site ID: 265418
Spill Date: 2003-05-22
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: WCHD
Referred To: Westchester Cnty Health Dept
Reported to Dept: 2003-05-22
CID: 322
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2003-05-22
Spill Record Last Update: 2003-12-12
Spiller Name: CHRIS
Spiller Company: Not reported
Spiller Address: 298 SCARBOROUGH ROAD
Spiller County: 001
Spiller Contact: CHRIS
Spiller Phone: (914) 762-0953
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 216262
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was WCHD-SCHNEIDER 12/1/03: Letter to Christopher Ely from Wayne Schneider, WCDOH dated 19 Nov 2003. Closure report by Elite Environmental Services has been reviewed. Soil sample results are satisfactory. WCDOH recommends NFA at this time."
Remarks: "tank test failure "

All TTF:
Facility ID: Not reported
Spill Number: 0301905
Spill Tank Test: 1528401
Site ID: 265418
Tank Number: 6
Tank Size: 1000
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 03

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

Test Method 2: Horner EZ Check I or II
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 265418
Operable Unit ID: 868465
Operable Unit: 01
Material ID: 506390
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: BROOKE ASTOR ESTATE
Address: 298 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0301906 / 2003-11-19
Facility ID: 0301906
Site ID: 265419
Spill Date: 2003-05-22
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 6000
Investigator: WCHD
Referred To: Westchester Cnty Health Dept
Reported to Dept: 2003-05-22
CID: 322
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

Date Entered In Computer: 2003-05-22
Spill Record Last Update: 2003-12-12
Spiller Name: CHRIS
Spiller Company: Not reported
Spiller Address: 298 SCARBOROUGH ROAD
Spiller County: 001
Spiller Contact: CHRIS
Spiller Phone: (914) 762-0953
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 216262
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was WCHD-JACKSON 12/1/03: Letter to Christopher Ely from Wayne Schneider, WCDOH dated 19 Nov 2003. Closure report by Elite Environmental Services has been reviewed. Soil sample results are satisfactory. WCDOH recommends NFA at this time."
Remarks: "tank test failure"

All TTF:
Facility ID: Not reported
Spill Number: 0301906
Spill Tank Test: 1528402
Site ID: 265419
Tank Number: 4
Tank Size: 550
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 03
Test Method 2: Horner EZ Check I or II
Leak Rate: .00
Gross Fail: F
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 265419
Operable Unit ID: 869908
Operable Unit: 01
Material ID: 506391
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: BROOKE ASTOR ESTATE
Address: 298 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9201783 / 1992-06-17
Facility ID: 9201783
Site ID: 265420
Spill Date: 1992-05-12
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: B3
Cleanup Ceased: 1992-06-17
SWIS: 6000
Investigator: wxwadswo
Referred To: Not reported
Reported to Dept: 1992-05-13
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1992-05-14
Spill Record Last Update: 1992-08-24
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 216262
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was W. WADSWORTH 09/27/95: This is additional information about material spilled from the translation of the old spill file: TANK TEST."
Remarks: "TESTER TOPPED OFF TANK FOR TEST AND DISCOVERED LEAKS IN VENT BELOW

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: U003646201 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C9

NAME: BROOKE ASTOR ESTATE
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0301904 / 2003-12-15
ID/Status: 0301905 / 2003-11-19
ID/Status: 0301906 / 2003-11-19
ID/Status: 9201783 / 1992-06-17
ID/Status: 265417

GRADE NO ACTION YET DTERMINED PBS RECORDS SHOW LAST TEST 8/89 DUE
8/94 CALLED 631-2124 AND LEFT MESSAGE TO CALL BACK"

All TTF:
Facility ID: Not reported
Spill Number: 9201783
Spill Tank Test: 1539990
Site ID: 265420
Tank Number: Not reported
Tank Size: 0
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 00
Test Method 2: Unknown
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 265420
Operable Unit ID: 965878
Operable Unit: 01
Material ID: 413076
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S108129625 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C10

NAME: ASTER HOME
ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0605158 / 2006-08-03
ID/Status: 368277
ID/Status: 2006-08-03

SPILLS:
Name: ASTER HOME
Address: 298 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 0605158 / 2006-08-03
Facility ID: 0605158
Facility Type: ER
DER Facility ID: 318215
Site ID: 368277
DEC Region: 3
Spill Cause: Other
Spill Class: C3
SWIS: 6042
Spill Date: 2006-08-03
Investigator: JYMCCART
Referred To: Not reported
Reported to Dept: 2006-08-03
CID: 444
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2006-08-03
Spill Record Last Update: 2006-08-04
Spiller Name: BROOK ASTER
Spiller Company: ASTER HOME
Spiller Address: 298 SCARBORO ROAD
Spiller Company: 001
Contact Name: BROOK ASTER
DEC Memo: "08/04/06: SPOKE WITH FRANK WHO SAYS THAT CLEAN UP HAS BEEN COMPLETED. NFA"
Remarks: "SPRAYED AND ALL CLEANED UP"

All Materials:
Site ID: 368277
Operable Unit ID: 1126160
Operable Unit: 01
Material ID: 2115681
Material Code: 0001A
Material Name: #2 fuel oil

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S108129625 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C10

NAME: ASTER HOME

ADDRESS: 298 SCARBOROUGH ROAD
BRIARCLIFF, NY
WESTCHESTER

SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0605158 / 2006-08-03
ID/Status: 368277
ID/Status: 2006-08-03

Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S103036454 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C11

NAME: ASTOR ESTATE

ADDRESS: 298 SCARBOUROGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9713480 / 1998-04-20
ID/Status: 94722
ID/Status: 1998-03-05

SPILLS:
Name: ASTOR ESTATE
Address: 298 SCARBOUROGH ROAD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 9713480 / 1998-04-20
Facility ID: 9713480
Facility Type: ER
DER Facility ID: 84793
Site ID: 94722
DEC Region: 3
Spill Cause: Housekeeping
Spill Class: C4
SWIS: 6000
Spill Date: 1998-03-05
Investigator: tdghiosa
Referred To: Not reported
Reported to Dept: 1998-03-05
CID: 266
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1998-03-05
Spill Record Last Update: 1998-05-15
Spiller Name: CARMINE FASCIANI
Spiller Company: ASTOR ESTATE
Spiller Address: 298 SCARBOUROGH ROAD
Spiller Company: 001
Contact Name: CARMINE FASCIANI
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was GHIOSAY 3/11/98 TANK WAS REMOVED 4/16/98 LETTER RECIEVED"
Remarks: "SOIL CONTAMINATION FOUND DURING TANK REMOVAL. SOME WATER FOUND IN TANK. TANK CUT AND CLEANED. TO BE REMOVED ON MONDAY. REMEDIATION TO FOLLOW AS NECESSARY."

All Materials:
Site ID: 94722
Operable Unit ID: 1059428
Operable Unit: 01
Material ID: 324497

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Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S103036454 **DIST/DIR:** 0.020 SE **ELEVATION:** 332 **MAP ID:** C11

NAME: ASTOR ESTATE
ADDRESS: 298 SCARBOUROGH ROAD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 9713480 / 1998-04-20
ID/Status: 94722
ID/Status: 1998-03-05

Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S106736389 **DIST/DIR:** 0.024 SE **ELEVATION:** 322 **MAP ID:** C12

NAME: RESIDENCE
ADDRESS: 309 SCARBOROUGH ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0410571 / 2005-05-15
ID/Status: 335584
ID/Status: 2004-12-23

SPILLS:
Name: RESIDENCE
Address: 309 SCARBOROUGH ROAD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 0410571 / 2005-05-15
Facility ID: 0410571
Facility Type: ER
DER Facility ID: 270828
Site ID: 335584
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C3
SWIS: 6000
Spill Date: 2004-12-23
Investigator: JBODee
Referred To: Not reported
Reported to Dept: 2004-12-23
CID: 408
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: 2005-04-06
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2004-12-23
Spill Record Last Update: 2005-05-15
Spiller Name: RACLYN
Spiller Company: RESIDENCE
Spiller Address: 309 SCARBOROUGH ROAD
Spiller Company: 001
Contact Name: RACLYN
DEC Memo: "05/15/05 JADE ENVIRONMENTAL REMOVED AND DISPOSED OF TANK. A SMALL AMOUNT OF CONTAMINATED SOIL WAS ALSO REMOVED. FURTHER SOIL REMOVAL IS NOT POSSIBLE DUE TO SAFETY AND STRUCTURAL CONSIDERATIONS. MUNICIPAL WATER AND SEWER. DEC INSPECTED EXCAVATION PRIOR TO BACKFILL. NO FURTHER ACTION IS REQUIRED AT THIS TIME. jod"
Remarks: "The remote fill is faulty. Unsure if the problem lies in the tank. Signs of Groundwater contamination. clean up will begin shortly "

All Materials:
Site ID: 335584
Operable Unit ID: 1097644

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S106736389 **DIST/DIR:** 0.024 SE **ELEVATION:** 322 **MAP ID:** C12

NAME: RESIDENCE
ADDRESS: 309 SCARBOROUGH ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0410571 / 2005-05-15
ID/Status: 335584
ID/Status: 2004-12-23

Operable Unit: 01
Material ID: 577670
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S106009042 **DIST/DIR:** 0.024 SSE **ELEVATION:** 304 **MAP ID:** D13

NAME: SPILL NUMBER 0208114
ADDRESS: SCARBORO RD / BECKER RD
BRIARCLIFF MANOR, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0208114 / 2002-11-06
ID/Status: 289226
ID/Status: 2002-11-05

SPILLS:
Name: SPILL NUMBER 0208114
Address: SCARBORO RD / BECKER RD
City,State,Zip: BRIARCLIFF MANOR, NY
Spill Number/Closed Date: 0208114 / 2002-11-06
Facility ID: 0208114
Facility Type: ER
DER Facility ID: 234204
Site ID: 289226
DEC Region: 3
Spill Cause: Equipment Failure
Spill Class: C4
SWIS: 6000
Spill Date: 2002-11-05
Investigator: jbodee
Referred To: Not reported
Reported to Dept: 2002-11-05
CID: 205
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2002-11-05
Spill Record Last Update: 2002-11-07
Spiller Name: Not reported
Spiller Company: CON ED
Spiller Address: 4 IRVING PLACE
Spiller Company: 001
Contact Name: CALLER
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'DEE "
Remarks: "truck broke line and spilled to ground. cleanup started. con ed # 145911"

All Materials:
Site ID: 289226
Operable Unit ID: 859693
Operable Unit: 01
Material ID: 515118
Material Code: 0010

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY Spills

EDR ID: S106009042 **DIST/DIR:** 0.024 SSE **ELEVATION:** 304 **MAP ID:** D13

NAME: SPILL NUMBER 0208114

ADDRESS: SCARBORO RD / BECKER RD
BRIARCLIFF MANOR, NY
WESTCHESTER

SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0208114 / 2002-11-06
ID/Status: 289226
ID/Status: 2002-11-05

Material Name: hydraulic oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: G
Recovered: .00
Oxygenate: Not reported

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S107489078 **DIST/DIR:** 0.025 ENE **ELEVATION:** 320 **MAP ID:** 14

NAME: STABILE HOME
ADDRESS: 155 HOLBROOK ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0509558 / 2006-05-01
ID/Status: 355350
ID/Status: 2005-11-09

LTANKS:
Name: STABILE HOME
Address: 155 HOLBROOK ROAD
City,State,Zip: BRIARCLIFF, NY
Spill Number/Closed Date: 0509558 / 2006-05-01
Facility ID: 0509558
Site ID: 355350
Spill Date: 2005-11-09
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: B4
Cleanup Ceased: Not reported
SWIS: 6042
Investigator: JBODee
Referred To: Not reported
Reported to Dept: 2005-11-09
CID: 444
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2005-11-09
Spill Record Last Update: 2006-05-01
Spiller Name: STABILE HOME
Spiller Company: STABILE HOME
Spiller Address: 155 HOLBROOK ROAD
Spiller County: 001
Spiller Contact: STABILE HOME
Spiller Phone: (914) 762-2769
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 305373
DEC Memo: "To remove tank and contain. May 1, 2006: MADISON ENVIRONMENTAL DISPOSED OF LUST AND 133.48 TONS OF CONTAMINATED SOIL. CLOSURE REPORT RECEIVED FROM HES. BASED UPON INFORMATION PROVIDED TO DEC, NO FURTHER ACTION IS REQUIRED AT THIS TIME. jod"
Remarks: "FOUND CONTAMINATION WHILE CLOSING: in place"

All Materials:
Site ID: 355350
Operable Unit ID: 1112717
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

JOB: 223152

NY LTANKS

EDR ID: S107489078 **DIST/DIR:** 0.025 ENE **ELEVATION:** 320 **MAP ID:** 14

NAME: STABILE HOME
ADDRESS: 155 HOLBROOK ROAD
BRIARCLIFF, NY
WESTCHESTER
SOURCE: NY Department of Environmental Conservation

Rev: 01/31/2022
ID/Status: 0509558 / 2006-05-01
ID/Status: 355350
ID/Status: 2005-11-09

Material ID: 2102760
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: G
Recovered: .00
Oxygenate: Not reported

SECTION

E

AGENCY FILE SEARCH

Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Delisted NPL - National Priority List Deletions

CERCLIS: SEMS SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL. SEMS - Superfund Enterprise Management System

NFRAP: SEMS-ARCHIVE SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-VSQG - RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators).

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROLS - Institutional Controls Sites List.

Database Descriptions

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

State/Tribal CERCLIS: SHWS Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites SHWS - Inactive Hazardous Waste Disposal Sites in New York State

State/Tribal SWL: SWF/LF Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. SWF/LF - Facility Register

State/Tribal LTANKS: INDIAN LUST R4 INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. LUSTs on Indian land in Arizona, California, New Mexico and Nevada INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land LTANKS - Spills Information Database. HIST LTANKS - Listing of Leaking Storage Tanks.

State/Tribal Tanks: UST Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. UST - Petroleum Bulk Storage (PBS) Database CBS UST - Chemical Bulk Storage Database. MOSF UST - Major Oil Storage Facilities Database. MOSF - Major Oil Storage Facility Site Listing. CBS - Chemical Bulk Storage Site Listing. AST - Petroleum Bulk Storage. CBS AST - Chemical Bulk Storage Database. MOSF AST - Major Oil Storage Facilities Database. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. TANKS - Storage Tank Faciliy Listing. TANKS NASSAU - Registered Tank Database in Nassau County.

State/Tribal IC / EC: ENV RES DECL RES DECL - Restrictive Declarations Listing. A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps. RES DECL - Restrictive Declarations Listing ENG CONTROLS - Registry of Engineering Controls. INST CONTROL - Registry of Institutional Controls.

State/Tribal VCP: VCP VCP NYC - Voluntary Cleanup Program Listing NYC. New York City voluntary cleanup program sites. VCP NYC - Voluntary Cleanup Program Listing NYC

ST/Tribal Brownfields: BROWNFIELDS A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant. BROWNFIELDS - Brownfields Site List ERP - Environmental Restoration Program Listing.

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Database Descriptions

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs PFAS - PFAS Contamination Site Location Listing.

Other Tanks: TANKS SUFFOLK This county is not included in the state?s database. These are facilities that have no tank information in the storage tank database. TANKS SUFFOLK - Storage Tank Database CORTLAND CO. UST - Cortland County Storage Tank Listing. WESTCHESTER CO. UST - Listing of Storage Tanks. NASSAU CO. UST - Registered Tank Database. ROCKLAND CO. UST - Petroleum Bulk Storage Database. SUFFOLK CO. UST - Storage Tank Database. NCFM UST - Storage Tank Database. HIST UST - Historical Petroleum Bulk Storage Database. CORTLAND CO. AST - Cortland County Storage Tank Listing. WESTCHESTER CO. AST - Listing of Storage Tanks. NASSAU CO. AST - Registered Tank Database. ROCKLAND CO. AST - Petroleum Bulk Storage Database. SUFFOLK CO. AST - Storage Tank Database. NCFM AST - Storage Tank Database. HIST AST - Historical Petroleum Bulk Storage Database.

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Spills Information Database. HIST SPILLS - SPILLS Database. SPILLS 90 - SPILLS90 data from FirstSearch. SPILLS 80 - SPILLS80 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. RAATS - RCRA Administrative Action Tracking System. PRP - Potentially Responsible Parties. PADS - PCB Activity Database System. ICIS - Integrated Compliance Information System. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System. DRYCLEANERS - Registered Drycleaners. HSWDS - Hazardous Substance Waste Disposal Site Inventory. NY MANIFEST - Facility and Manifest Data. SPDES - State Pollutant Discharge Elimination System. COOLING TOWERS - Registered Cooling Towers. PCS INACTIVE - Listing of Inactive PCS Permits. MINES MRDS - Mineral Resources Data System. PCS ENF - Enforcement data. PCS - Permit Compliance System.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Quarterly

State/Tribal CERCLIS: Department of Environmental Conservation

Updated Annually

State/Tribal SWL: Department of Environmental Conservation

Updated Quarterly

State/Tribal LTANKS: EPA Region 8

Varies

State/Tribal Tanks: Department of Environmental Conservation

No Update Planned

Database Sources

State/Tribal IC / EC: NYC Department of City Planning

Varies

State/Tribal VCP: Department of Environmental Conservation

Updated Semi-Annually

ST/Tribal Brownfields: Department of Environmental Conservation

Updated Semi-Annually

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Other Tanks: Department of Health Services

Varies

Spills: U.S. Department of Transportation

Updated Quarterly

Other: Environmental Protection Agency

Updated Quarterly

SECTION

F

SANBORN MAPS

Projecg # 223152

345 Scarborough Road

BRIARCLIFF MANOR, NY 10510

Inquiry Number: 6896069.3

March 14, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/14/22

Site Name:

Projecg # 223152
345 Scarborough Road
BRIARCLIFF MANOR, NY 105
EDR Inquiry # 6896069.3

Client Name:

Environmental Affiliates
3 Lodi Lane
Monsey, NY 10952
Contact: ALEXANDER Friedman

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Certification # 5399-43BF-934A

PO # 223152

Project 223152

Maps Provided:

1965
1942
1939
1933

Sanborn® Library search results

Certification #: 5399-43BF-934A

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- ☑ Library of Congress
- ☑ University Publications of America
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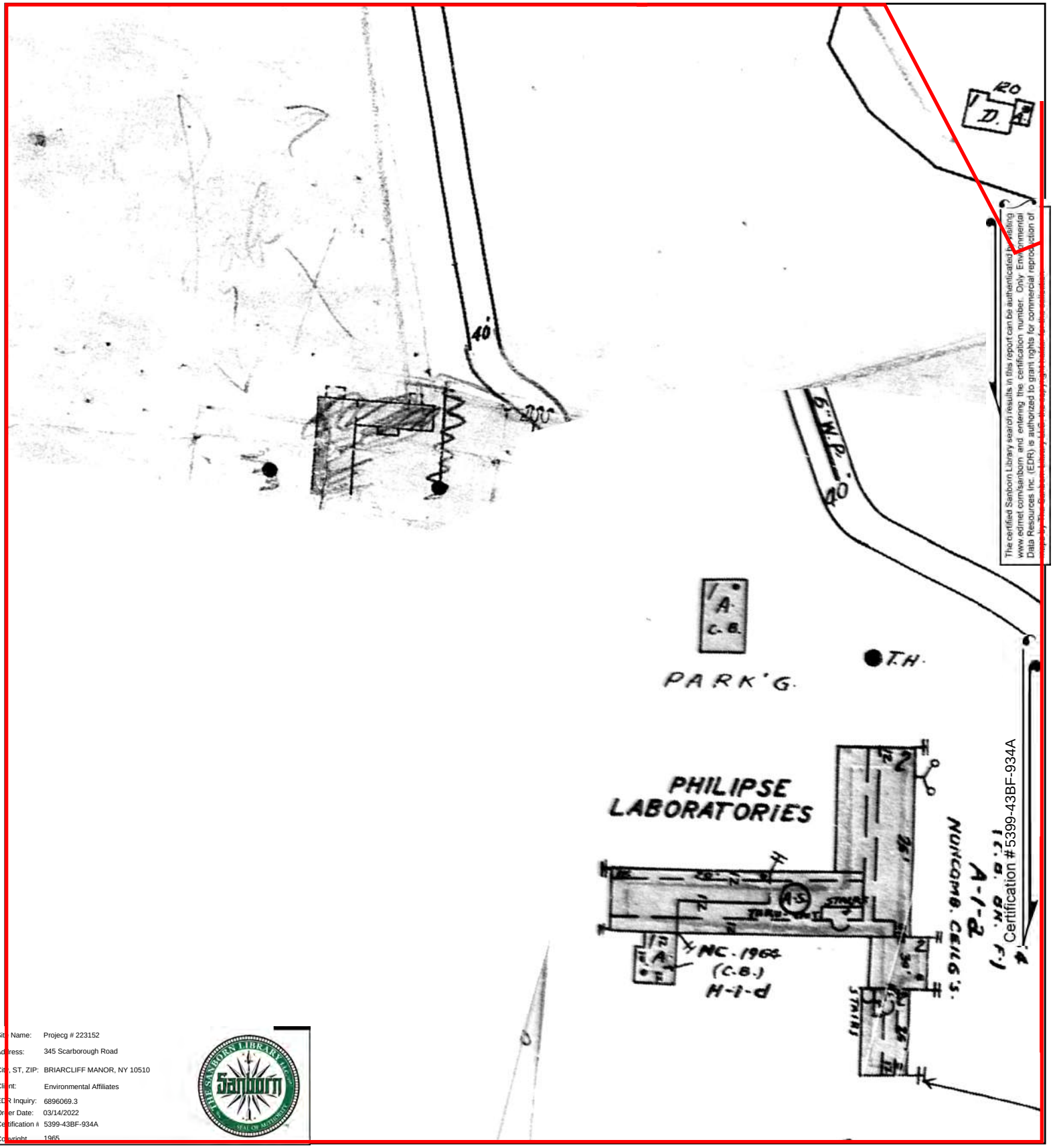
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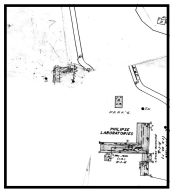


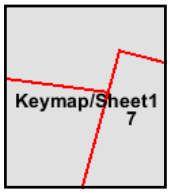
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Site Name: Projecg # 223152
Address: 345 Scarborough Road
City, ST, ZIP: BRIARCLIFF MANOR, NY 10510
Client: Environmental Affiliates
EDR Inquiry: 6896069.3
Order Date: 03/14/2022
Certification #: 5399-43BF-934A
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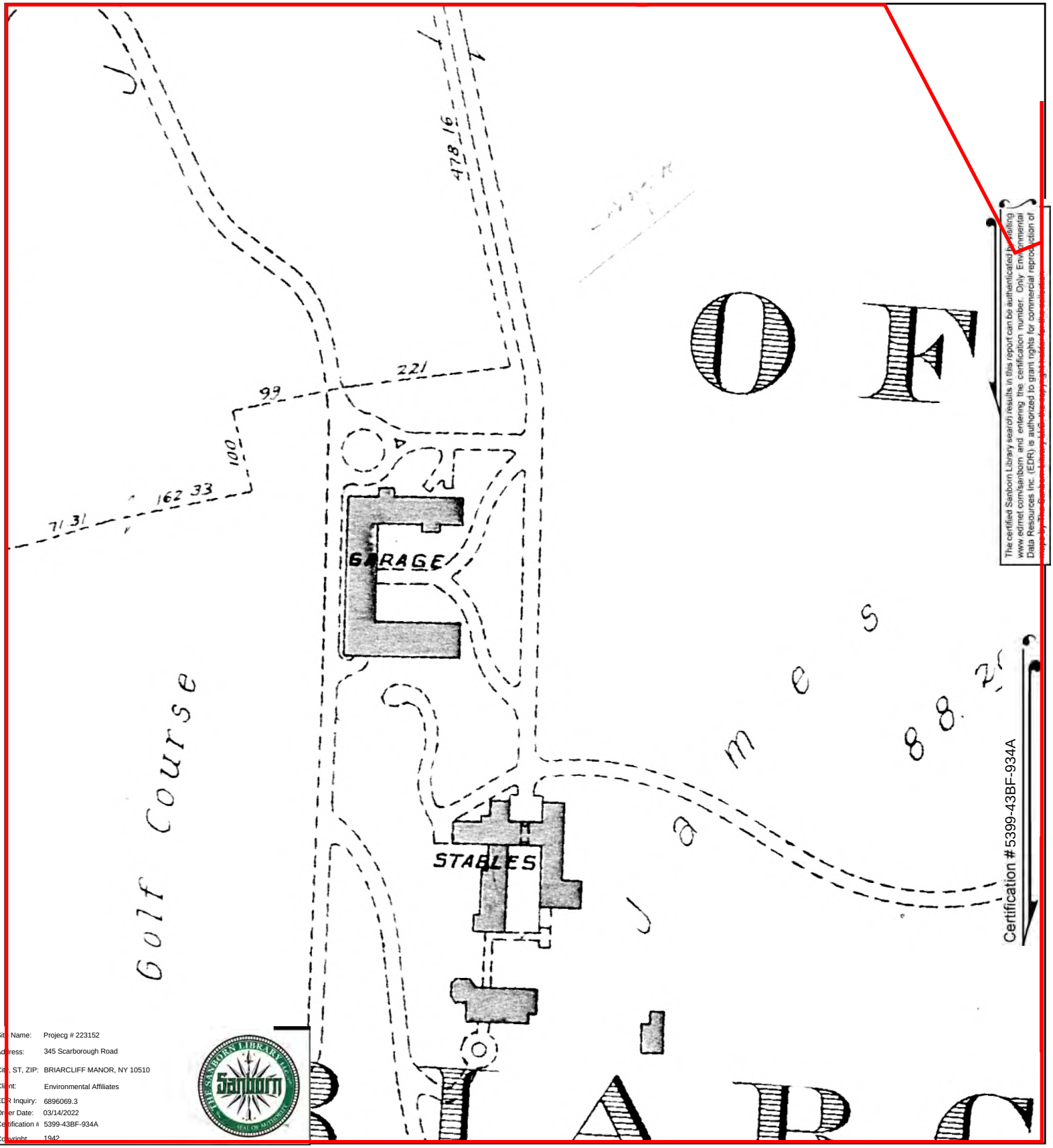
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Volume 1, Sheet 7
Volume 1, Sheet Keymap/Sheet1

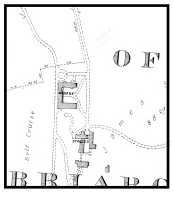
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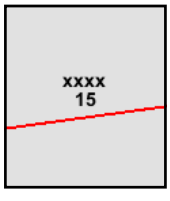


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Site Name: Projecg # 223152
Address: 345 Scarborough Road
City, ST, ZIP: BRIARCLIFF MANOR, NY 10510
Client: Environmental Affiliates
EDR Inquiry: 6896069.3
Order Date: 03/14/2022
Certification #: 5399-43BF-934A
Copyright: 1942

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

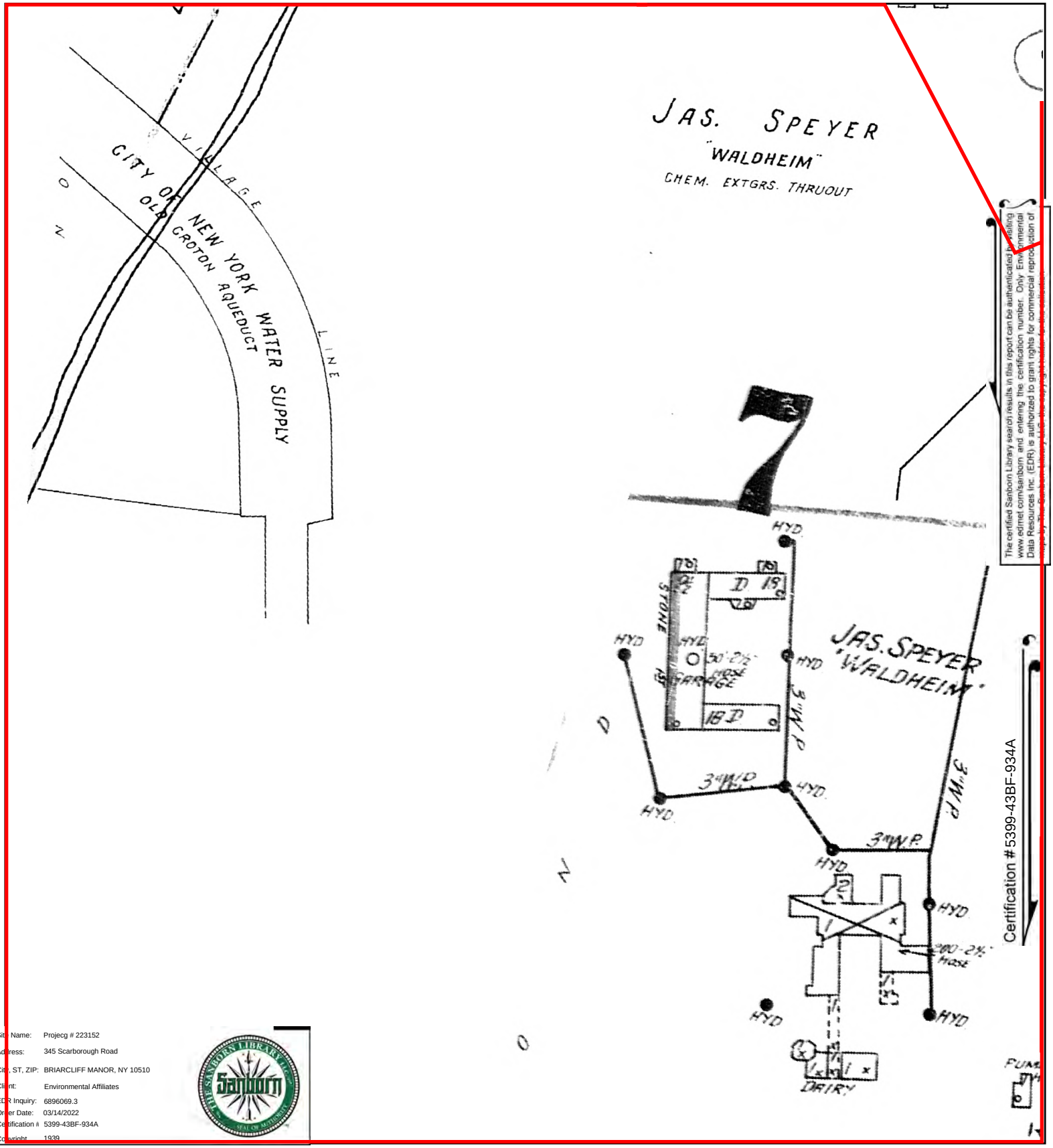




Volume 4, Sheet xxxx
Volume 4, Sheet 15
Volume 4, Sheet xxxx

0 Feet 150 300 600

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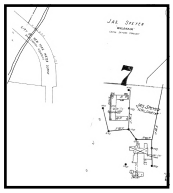


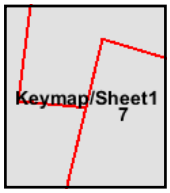
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Site Name: Projecg # 223152
Address: 345 Scarborough Road
City, ST, ZIP: BRIARCLIFF MANOR, NY 10510
Client: Environmental Affiliates
EDR Inquiry: 6896069.3
Order Date: 03/14/2022
Certification #: 5399-43BF-934A
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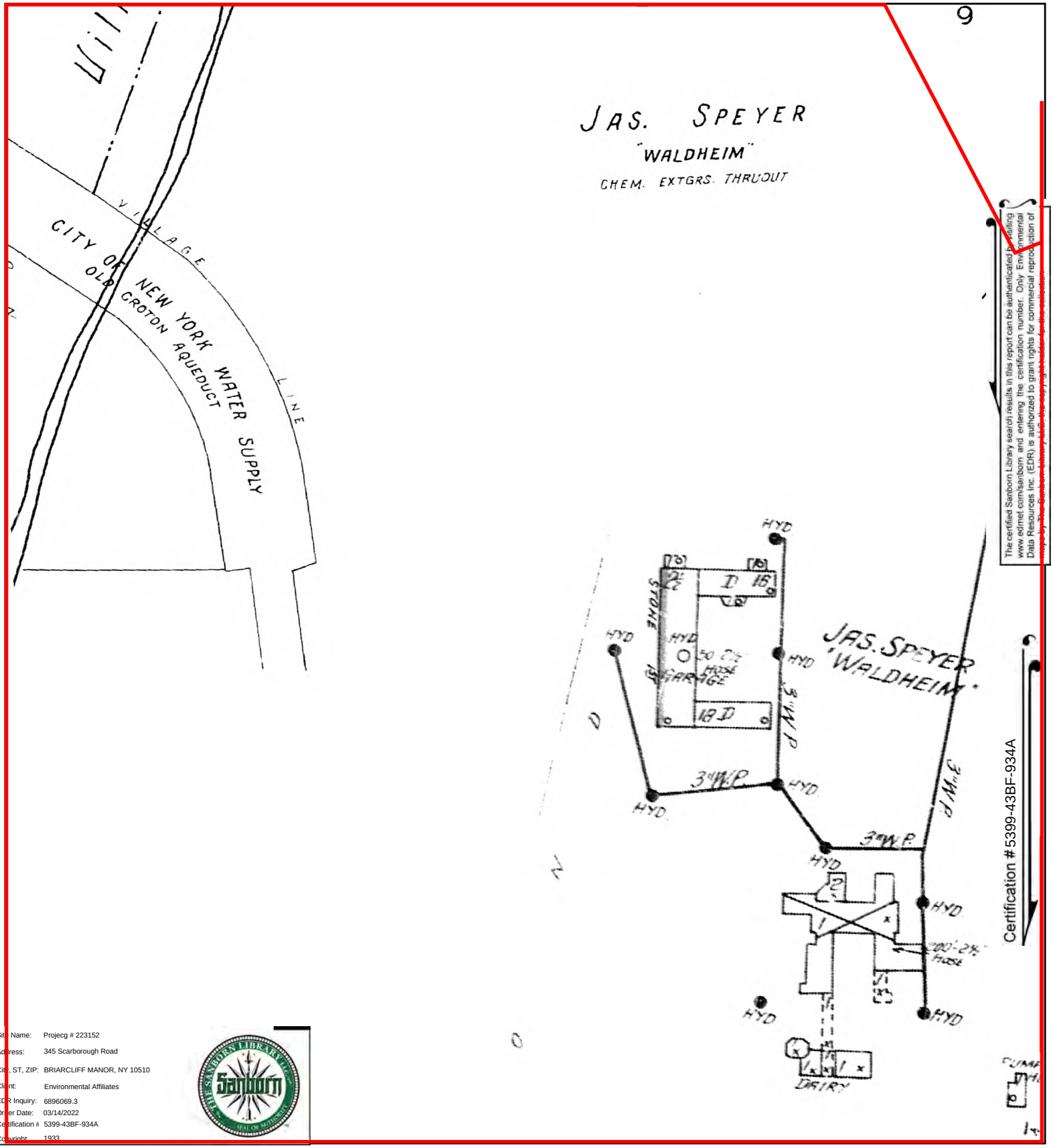
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Volume 1, Sheet Keymap/Sheet1
Volume 1, Sheet 7

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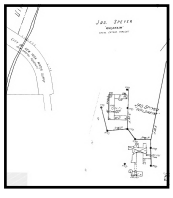


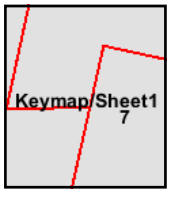
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Site Name: Projecg # 223152
Address: 345 Scarborough Road
City, ST, ZIP: BRIARCLIFF MANOR, NY 10510
Client: Environmental Affiliates
EDR Inquiry: 6896069.3
Order Date: 03/14/2022
Certification #: 5399-43BF-934A
Copyright: 1933

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 1, Sheet Keymap/Sheet1
Volume 1, Sheet 7

N

Projecg # 223152

345 Scarborough Road

BRIARCLIFF MANOR, NY 10510

Inquiry Number: 6896069.10

March 14, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

03/14/22

Site Name:

Projecg # 223152
345 Scarborough Road
BRIARCLIFF MANOR, NY 105
EDR Inquiry # 6896069.10

Client Name:

Environmental Affiliates
3 Lodi Lane
Monsey, NY 10952
Contact: ALEXANDER Friedman

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Search Results:

Year	Scale	Details	Source
2017	1"=625'	Flight Year: 2017	USDA/NAIP
2013	1"=625'	Flight Year: 2013	USDA/NAIP
2009	1"=625'	Flight Year: 2009	USDA/NAIP
2006	1"=625'	Flight Year: 2006	USDA/NAIP
1994	1"=625'	Acquisition Date: April 04, 1994	USGS/DOQQ
1989	1"=625'	Flight Date: April 20, 1989	NYDOT
1985	1"=625'	Flight Date: March 16, 1985	USDA
1976	1"=625'	Flight Date: October 29, 1976	USGS
1974	1"=625'	Flight Date: October 24, 1974	USDA
1965	1"=625'	Flight Date: February 20, 1965	USGS
1961	1"=625'	Flight Date: November 22, 1961	EDR Proprietary Aerial Viewpoint
1957	1"=625'	Flight Date: March 24, 1957	Jack
1953	1"=625'	Flight Date: June 03, 1953	USGS

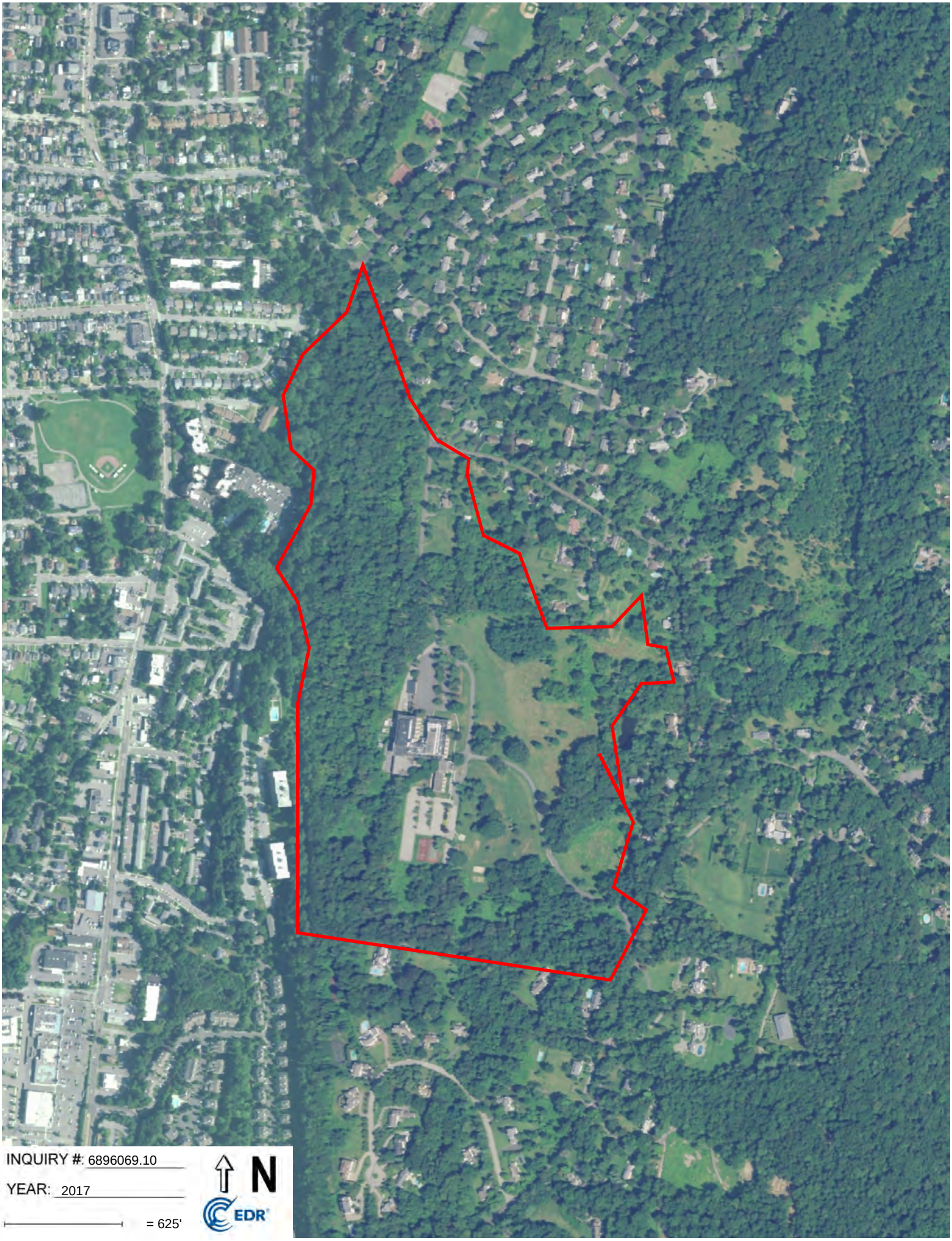
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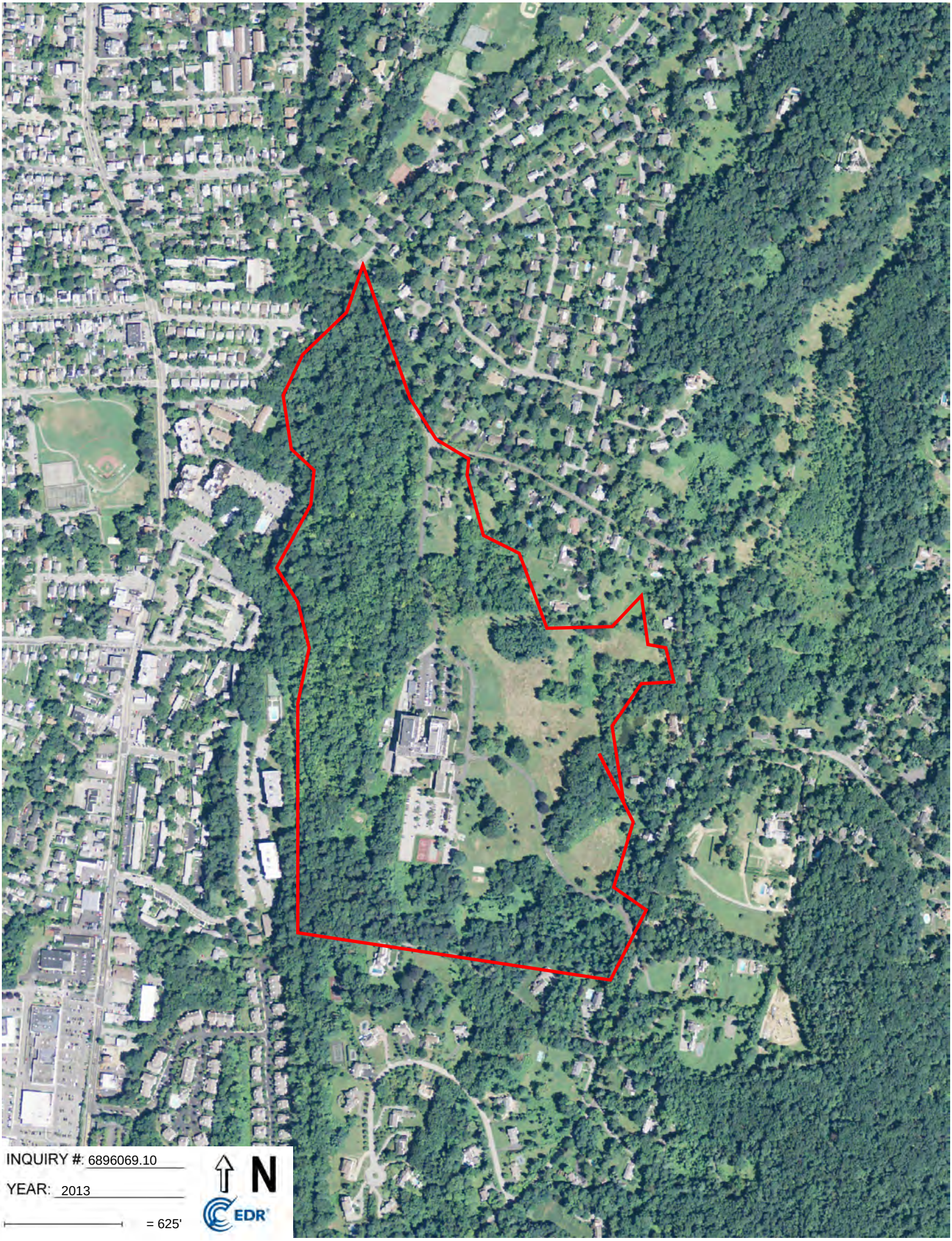
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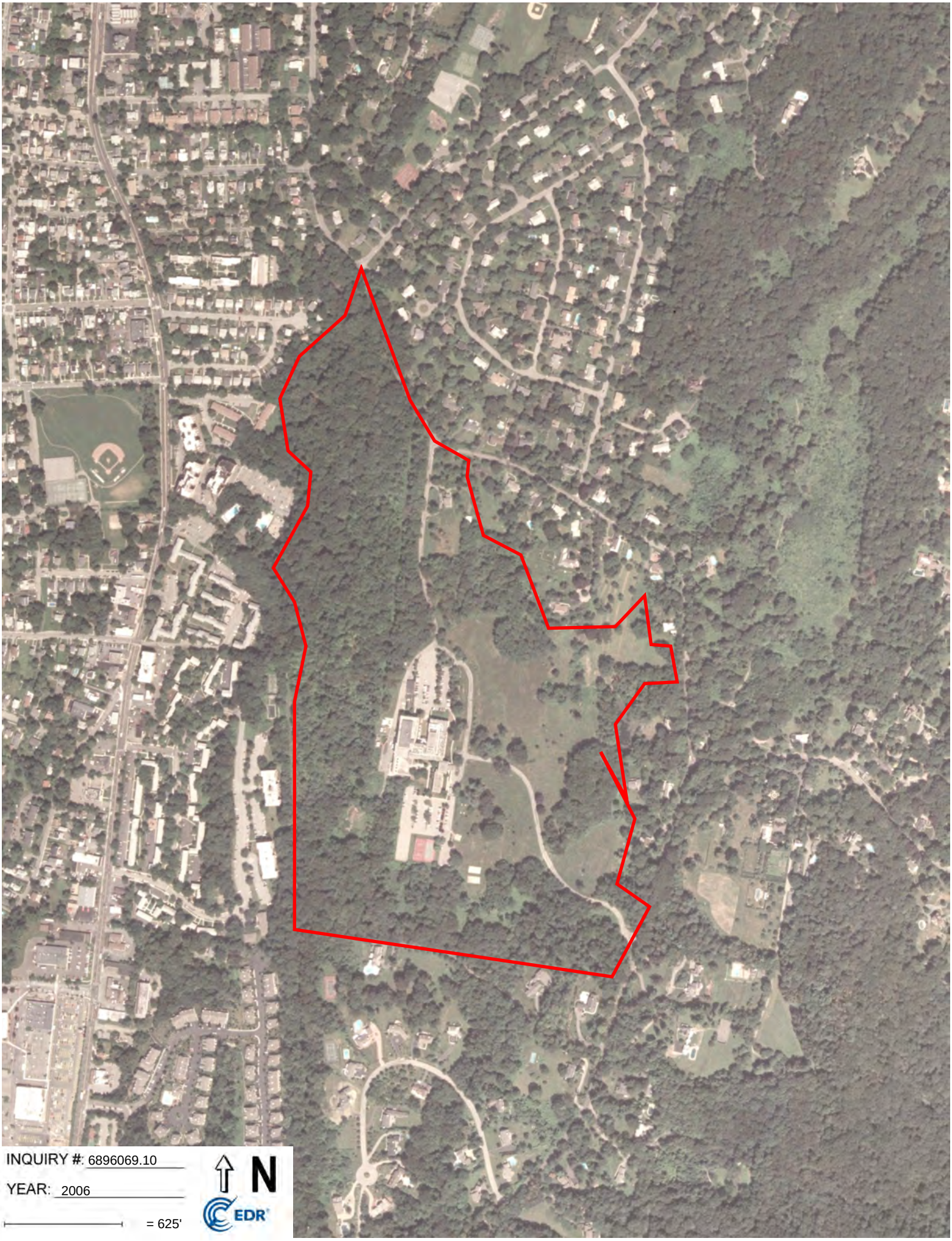
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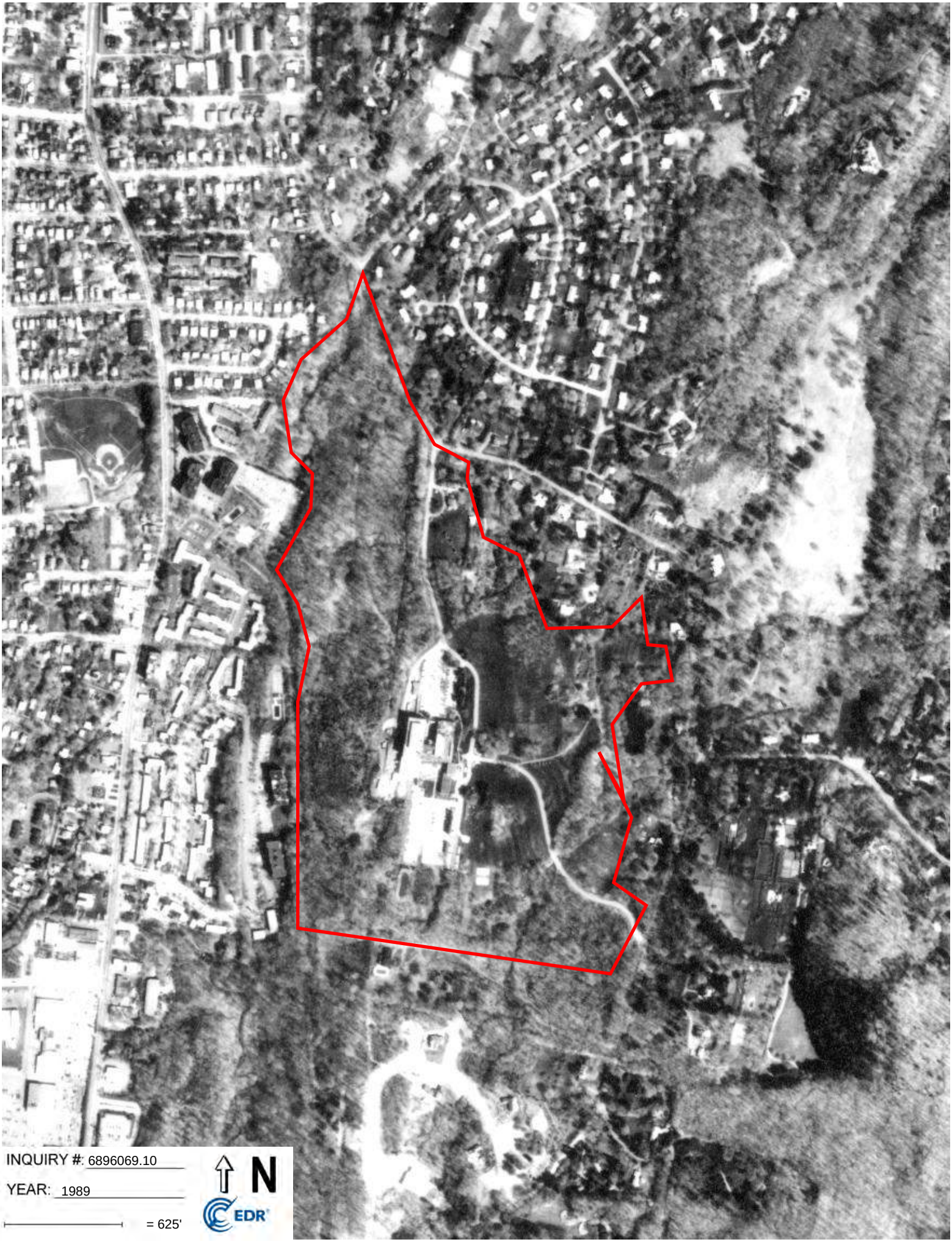

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EDR


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YEAR: 2013
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 2009
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 2006
= 625'
N
EDR

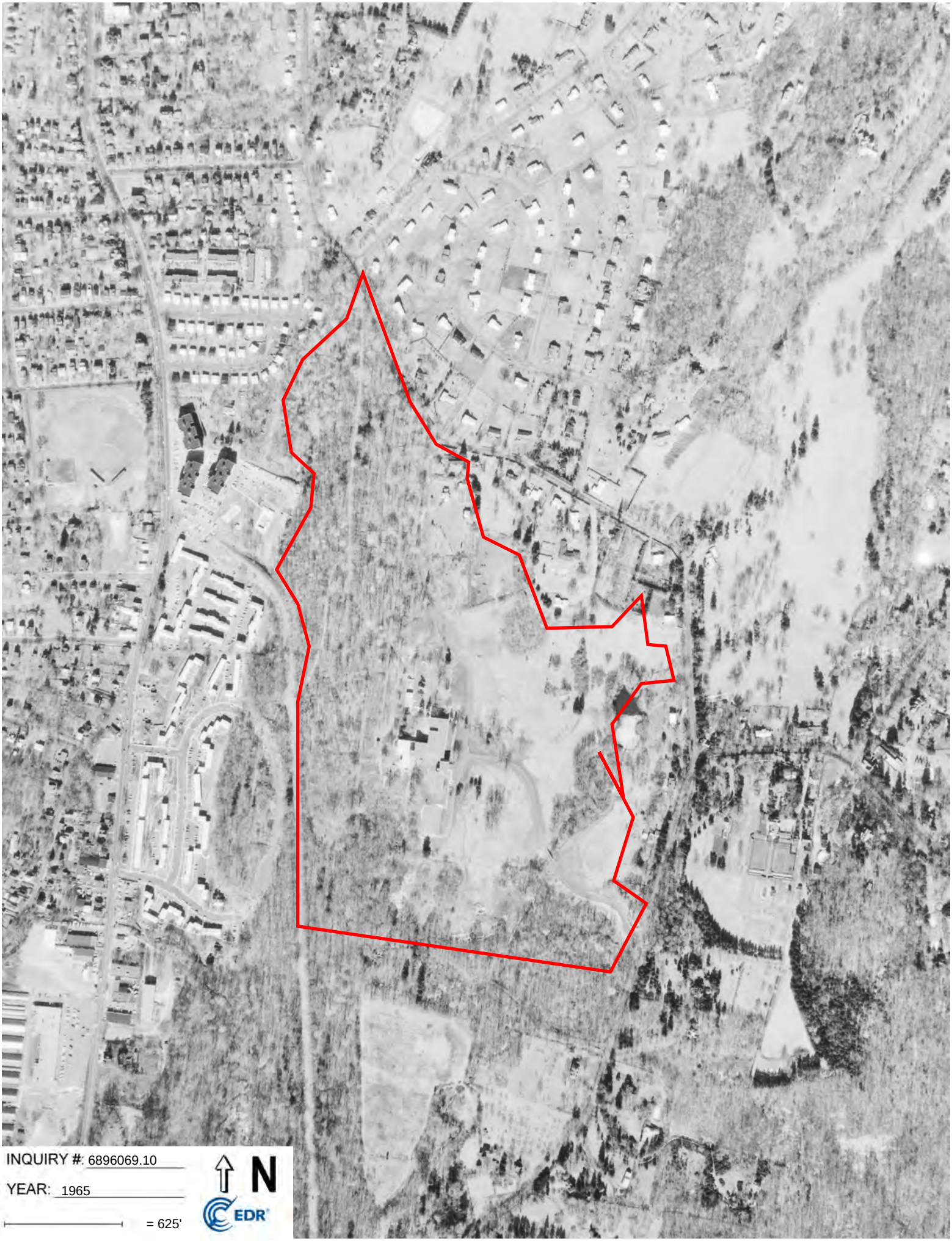

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EDR
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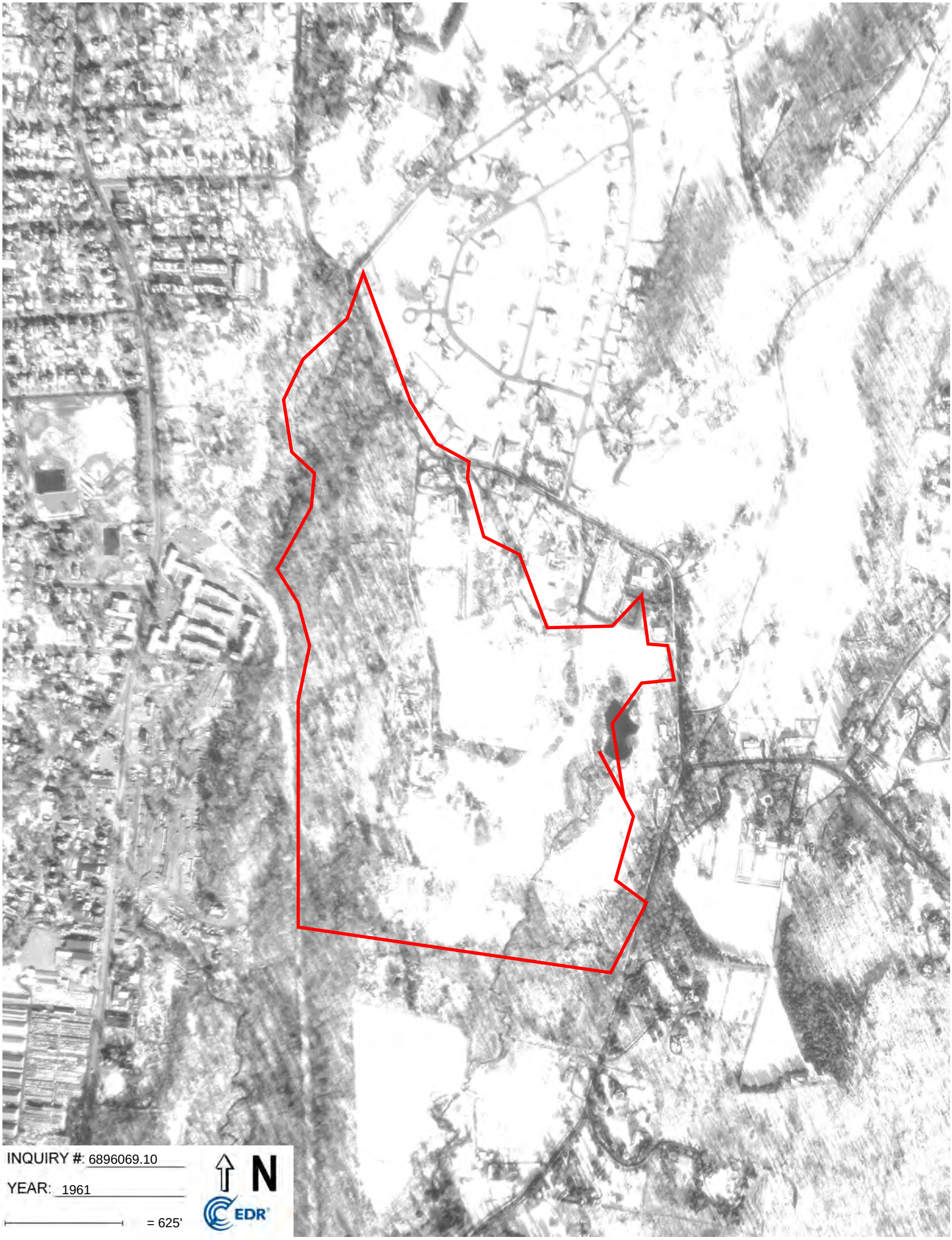

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YEAR: 1989
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EDR


INQUIRY #: 6896069.10
YEAR: 1985
= 625'
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EDR


INQUIRY #: 6896069.10
YEAR: 1976
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 1974
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 1965
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 1961
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 1957
= 625'
N
EDR


INQUIRY #: 6896069.10
YEAR: 1953
= 625'
N
EDR

Projecg # 223152

345 Scarborough Road

BRIARCLIFF MANOR, NY 10510

Inquiry Number: 6896069.4

March 14, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

03/14/22

Site Name:

Projecg # 223152
345 Scarborough Road
BRIARCLIFF MANOR, NY 105
EDR Inquiry # 6896069.4

Client Name:

Environmental Affiliates
3 Lodi Lane
Monsey, NY 10952
Contact: ALEXANDER Friedman

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Environmental Affiliates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 223152
Project: 223152

Coordinates:

Latitude:	41.151531 41° 9' 6" North
Longitude:	-73.856172 -73° 51' 22" West
UTM Zone:	Zone 18 North
UTM X Meters:	595977.90
UTM Y Meters:	4556209.14
Elevation:	213.21' above sea level

Maps Provided:

2019
2016
2013
1979
1967
1955
1943
1936, 1938
1902
1893
1892

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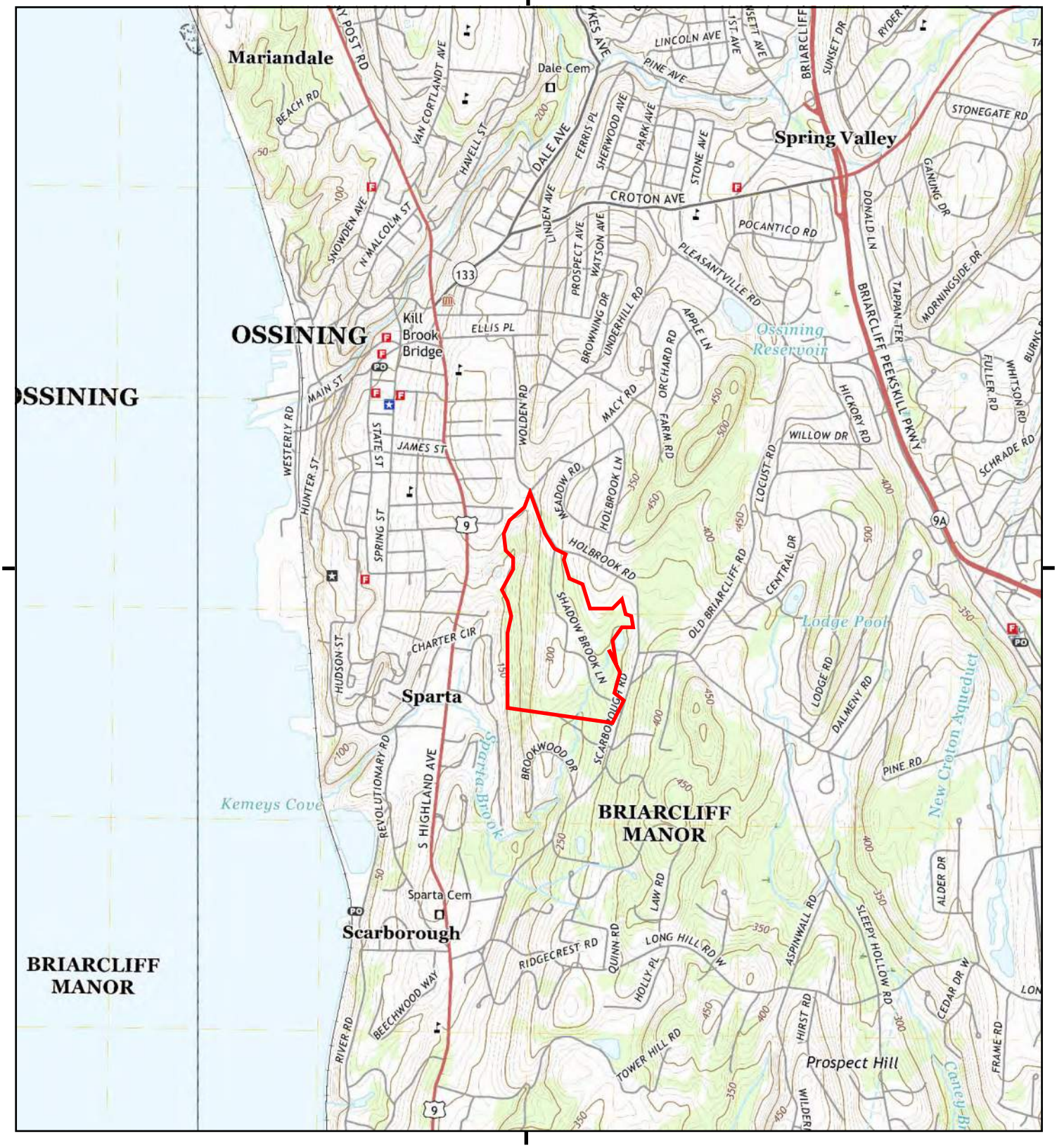
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Historical Topo Map

2019



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

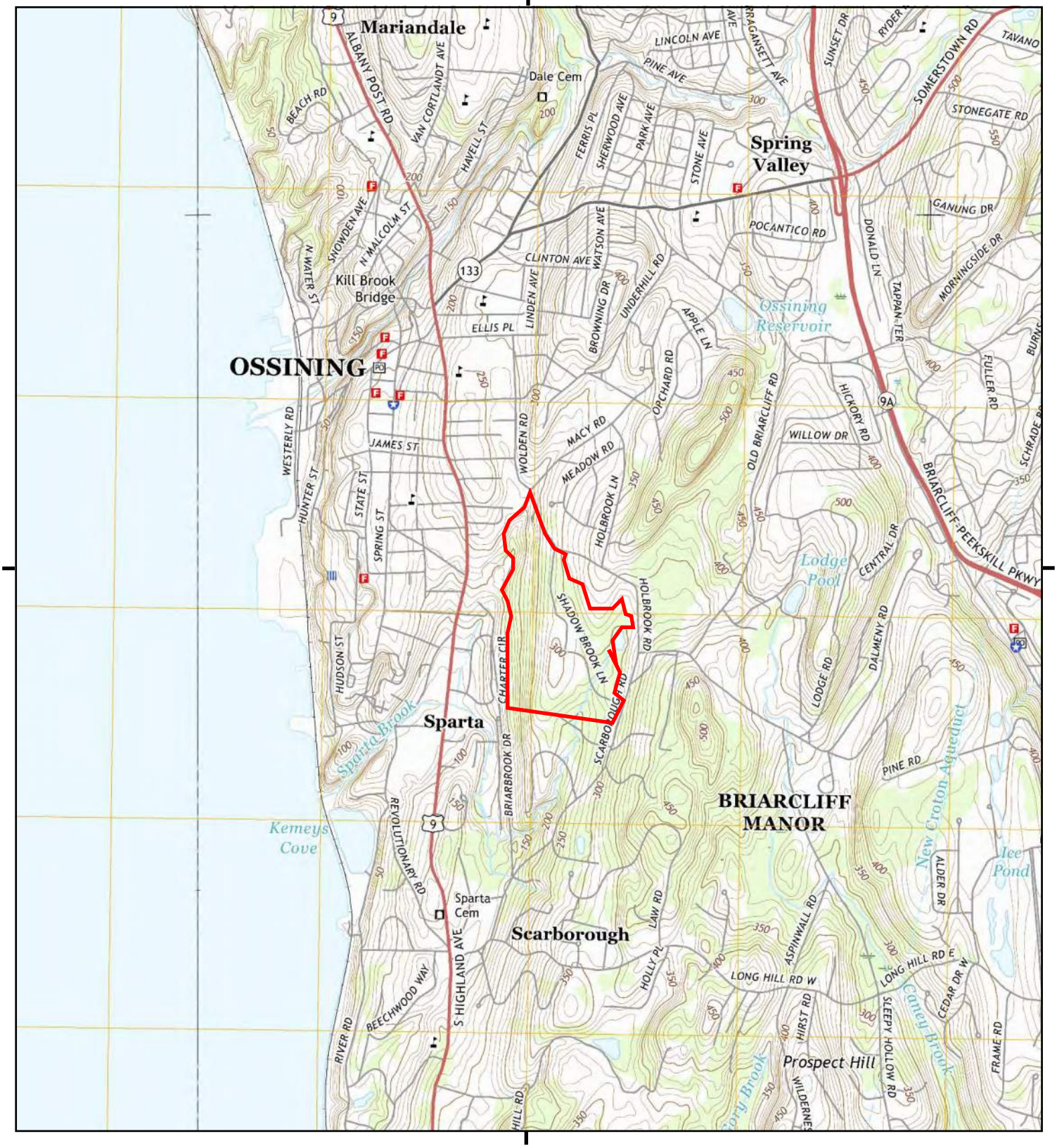
TP, Ossining, 2019, 7.5-minute
NW, Haverstraw, 2019, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N

Historical Topo Map

2016



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

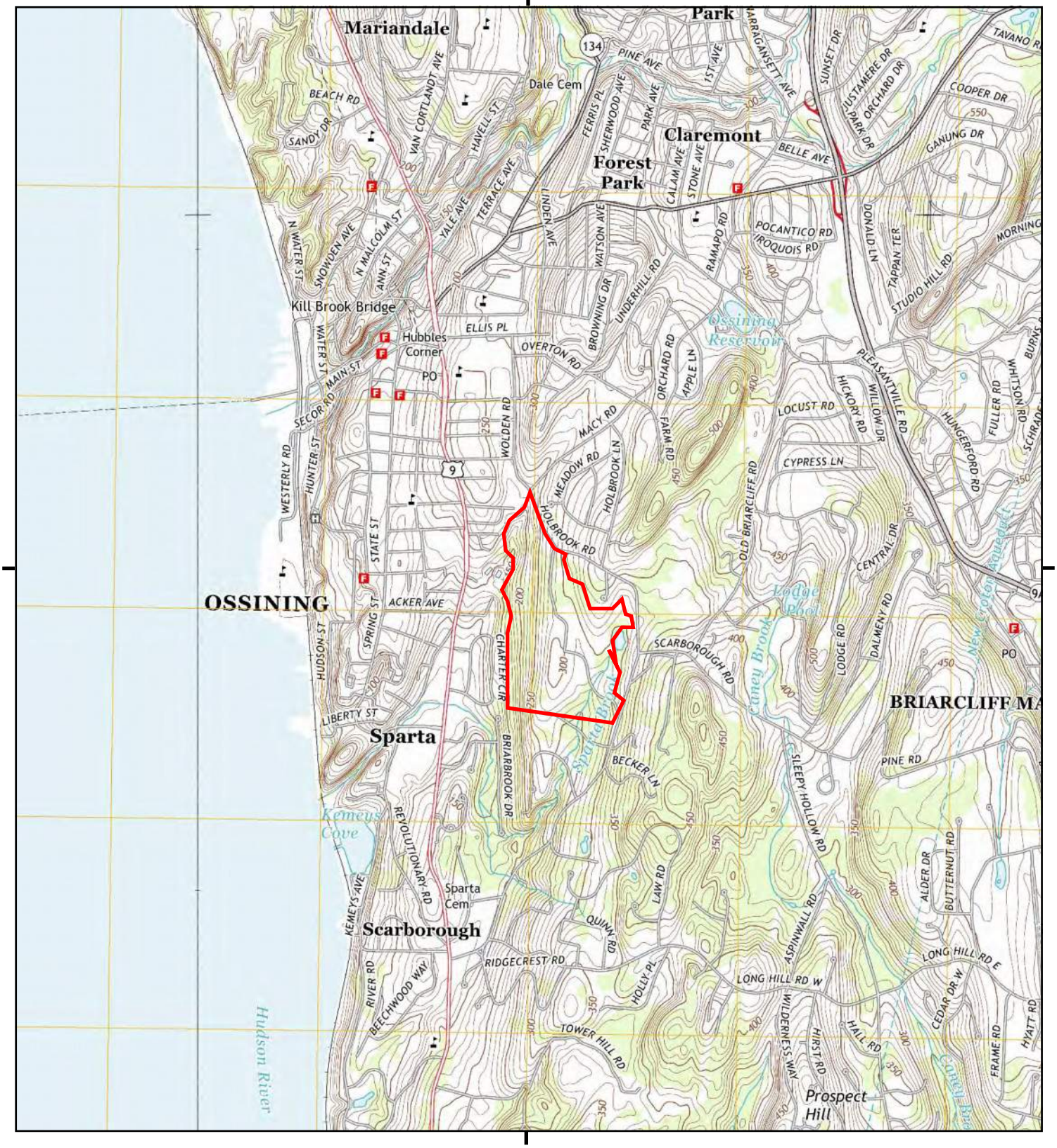
TP, Ossining, 2016, 7.5-minute
NW, Haverstraw, 2016, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N

Historical Topo Map

2013



This report includes information from the following map sheet(s).

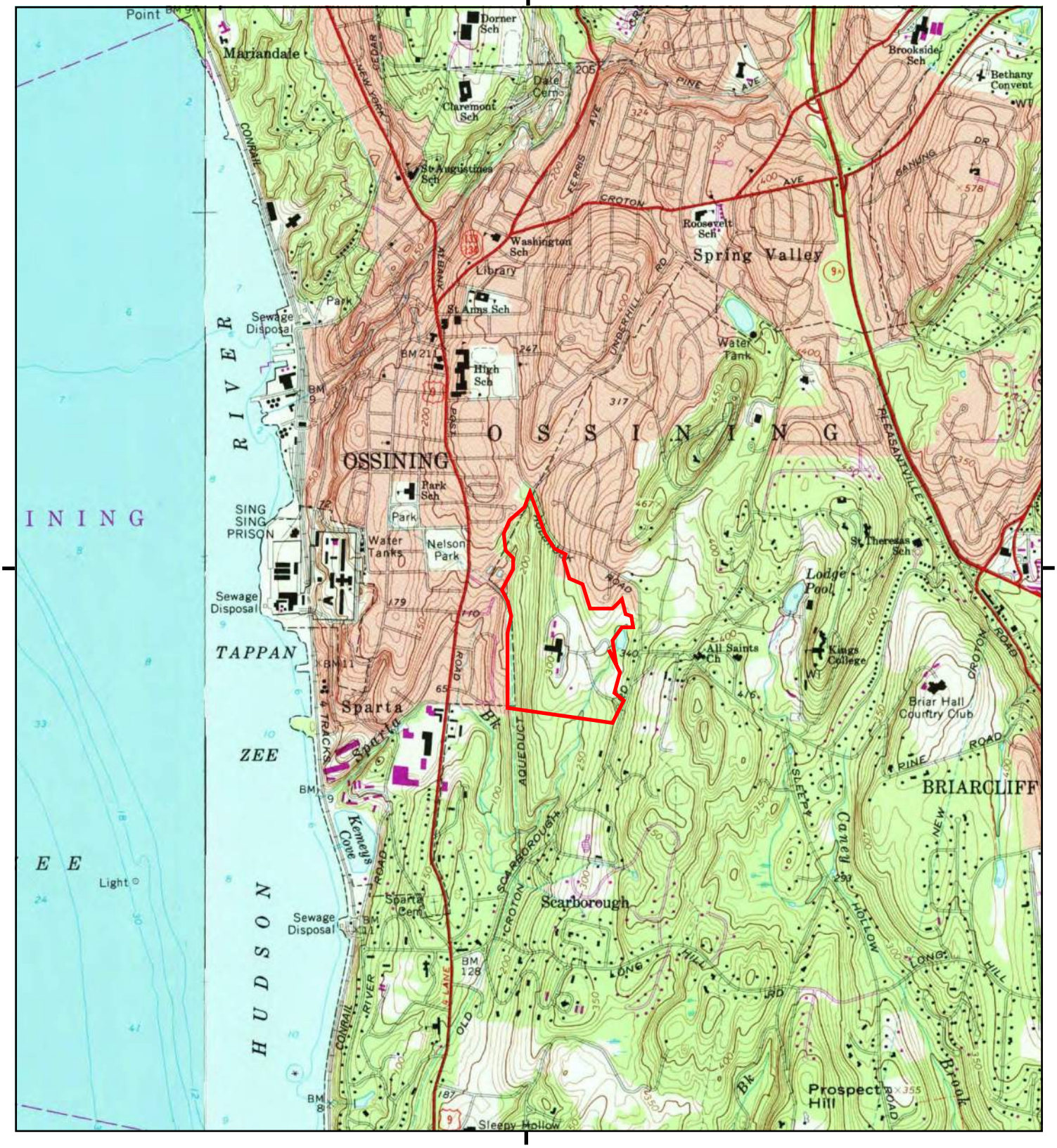
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ossining, 2013, 7.5-minute
NW, Haverstraw, 2013, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

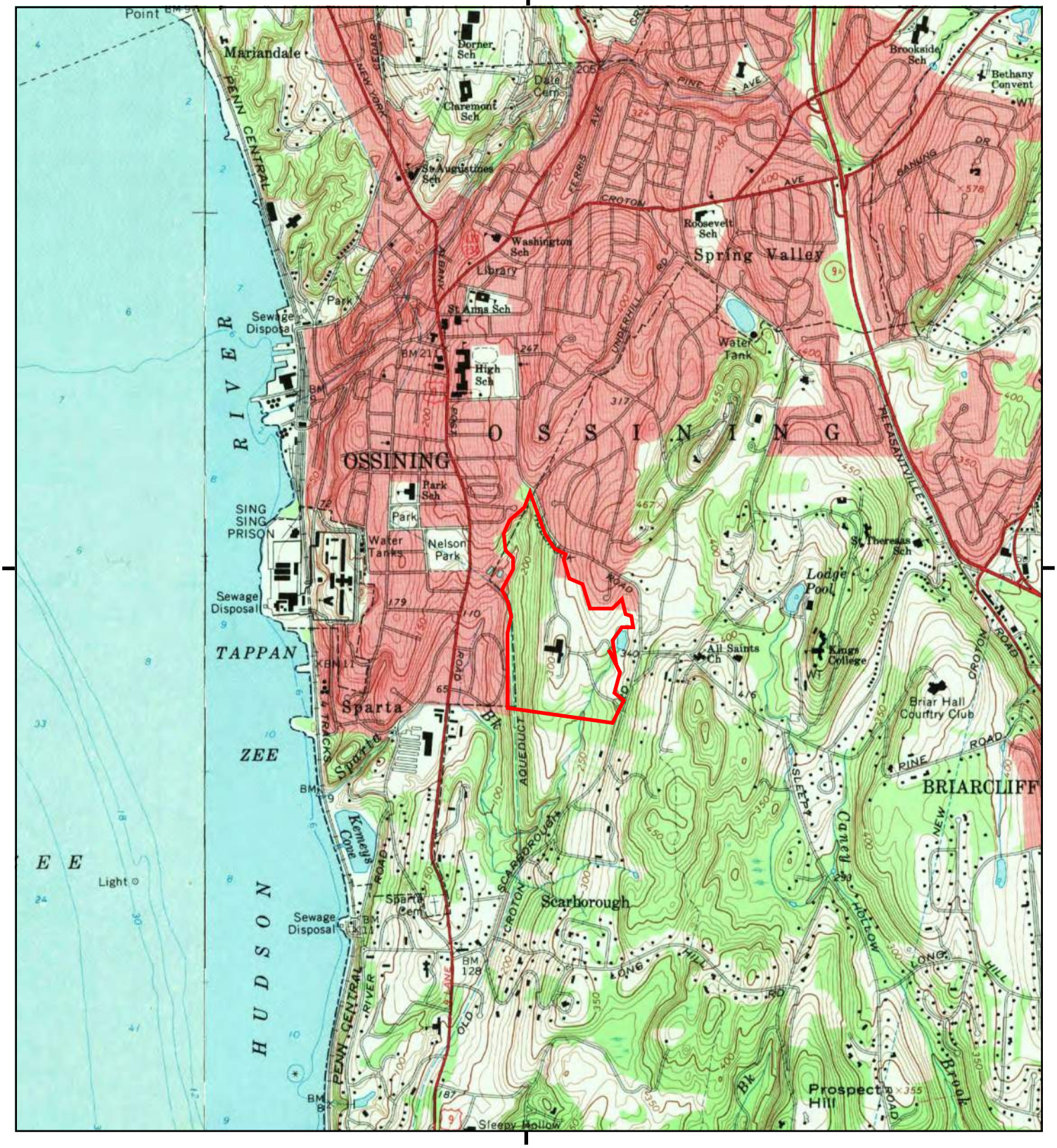
TP, Ossining, 1979, 7.5-minute
NW, Haverstraw, 1979, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N

Historical Topo Map

1967



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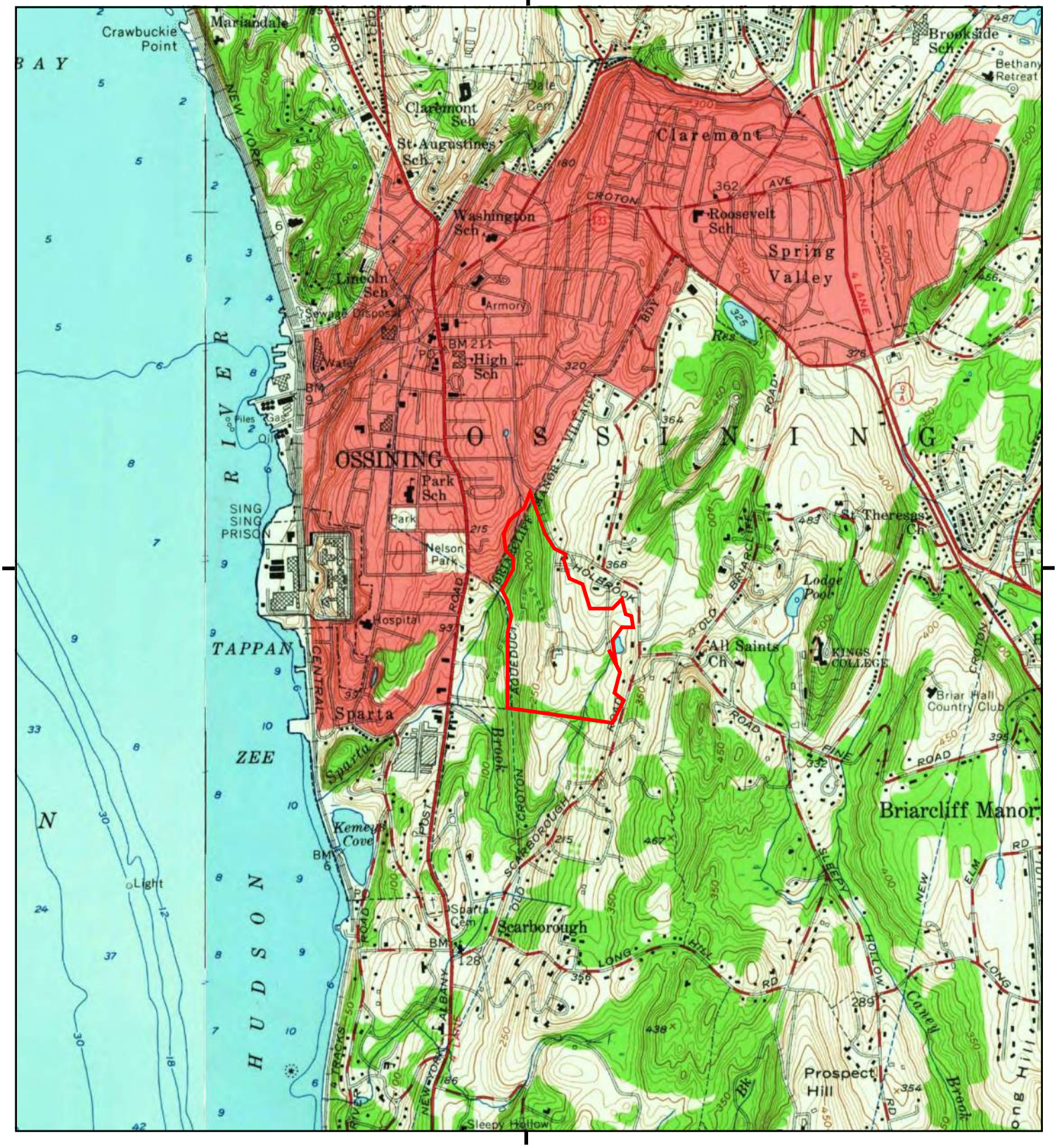
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NW N NE
W E
SW S SE

TP, Ossining, 1967, 7.5-minute
NW, Haverstraw, 1967, 7.5-minute

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ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N



This report includes information from the following map sheet(s).

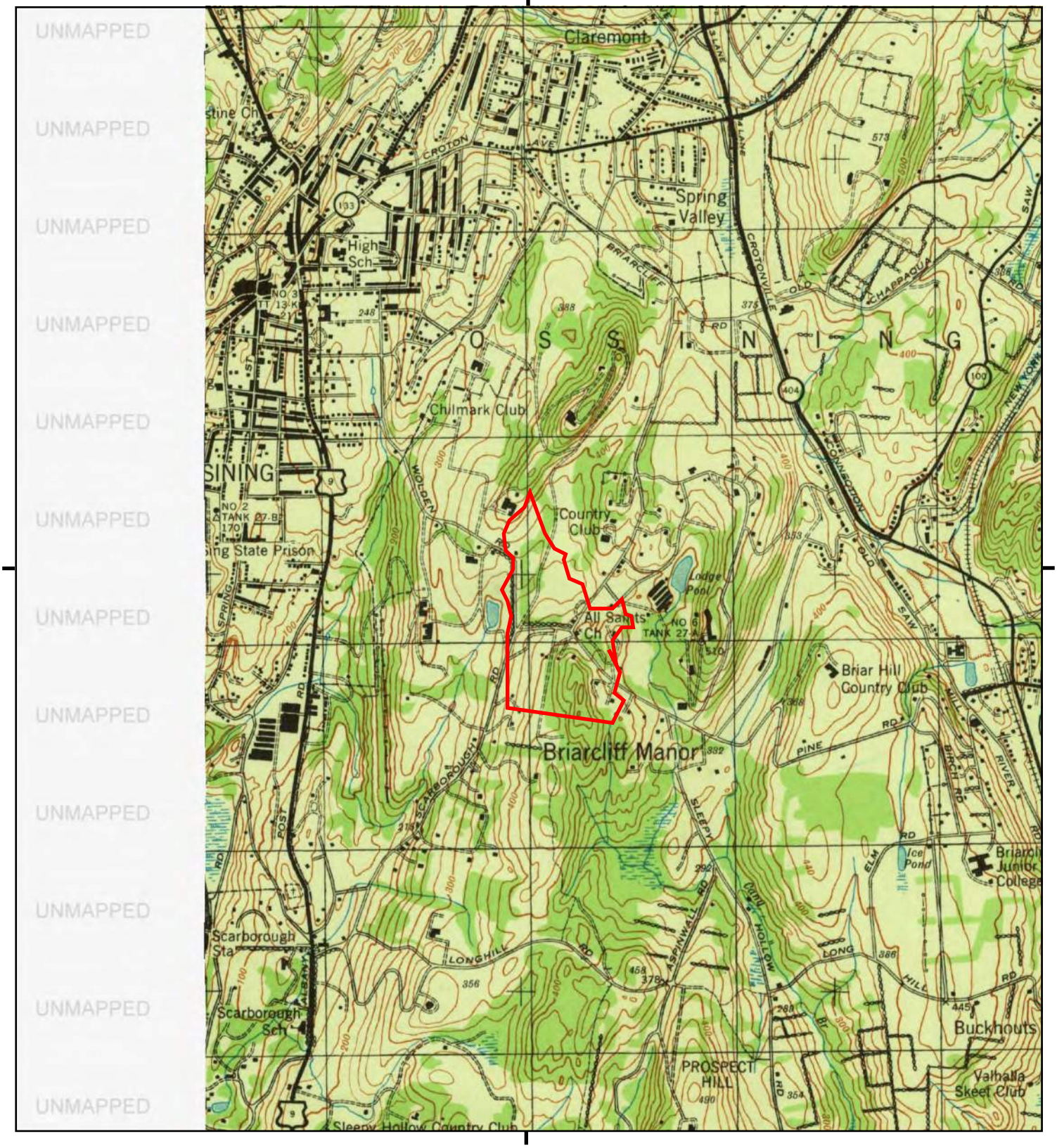
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NW N NE
W E
SW S SE

TP, Ossining, 1955, 7.5-minute
NW, Haverstraw, 1955, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N



This report includes information from the following map sheet(s).

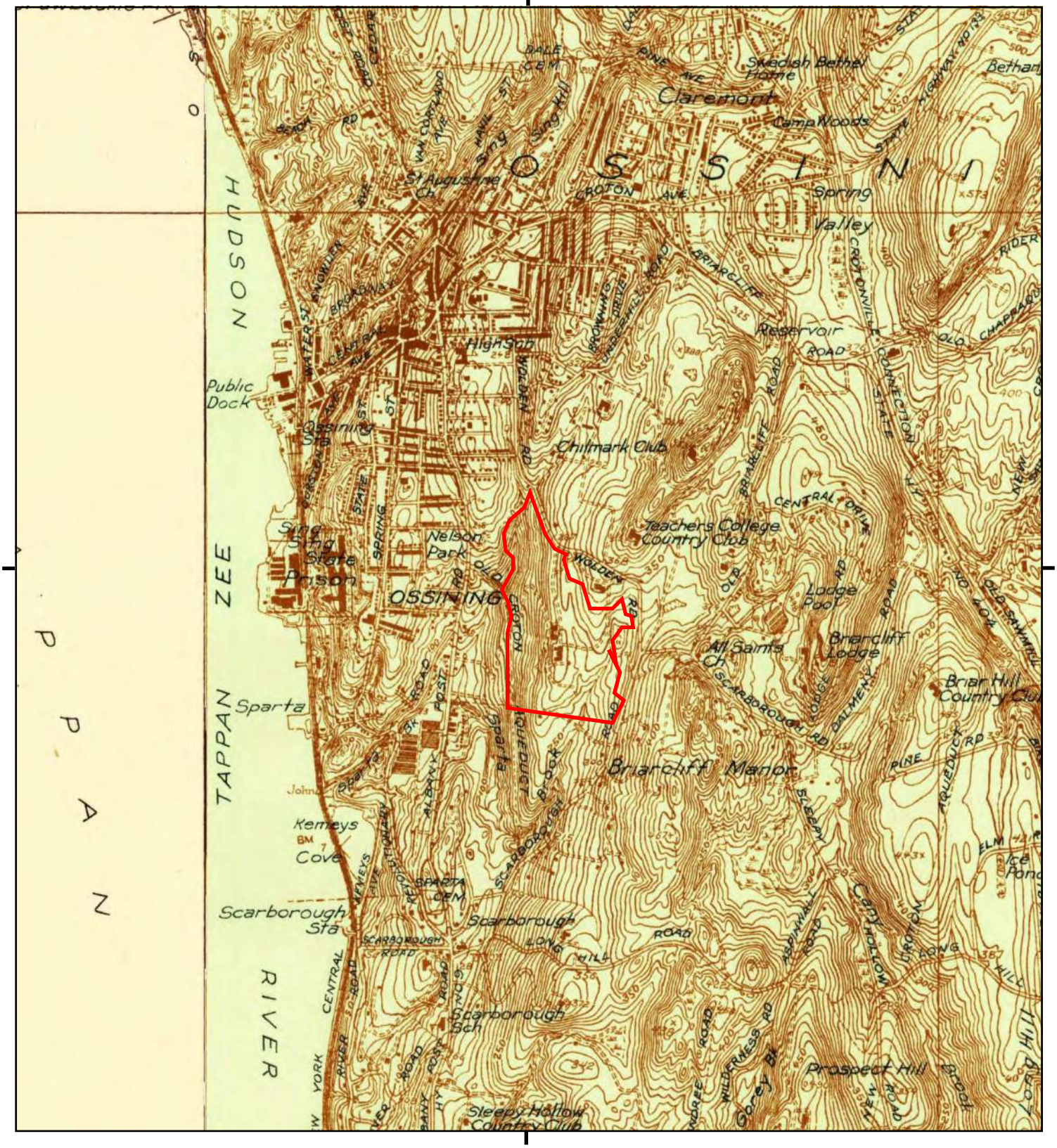
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NW N NE
W E
SW S SE

TP, Ossining, 1943, 7.5-minute

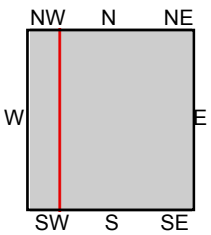
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ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N



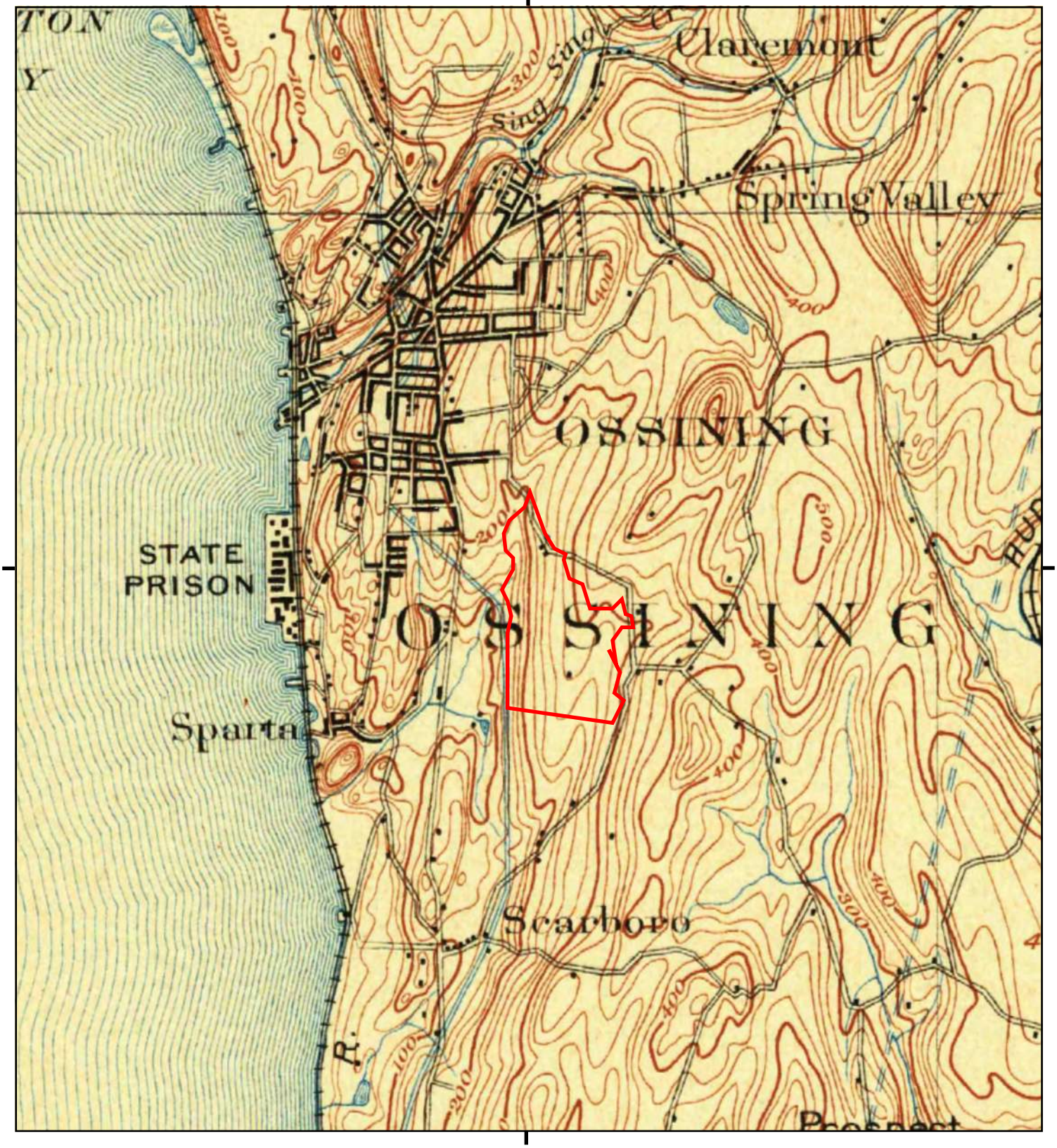
This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Ossining, 1936, 7.5-minute
NW, Haverstraw, 1938, 7.5-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

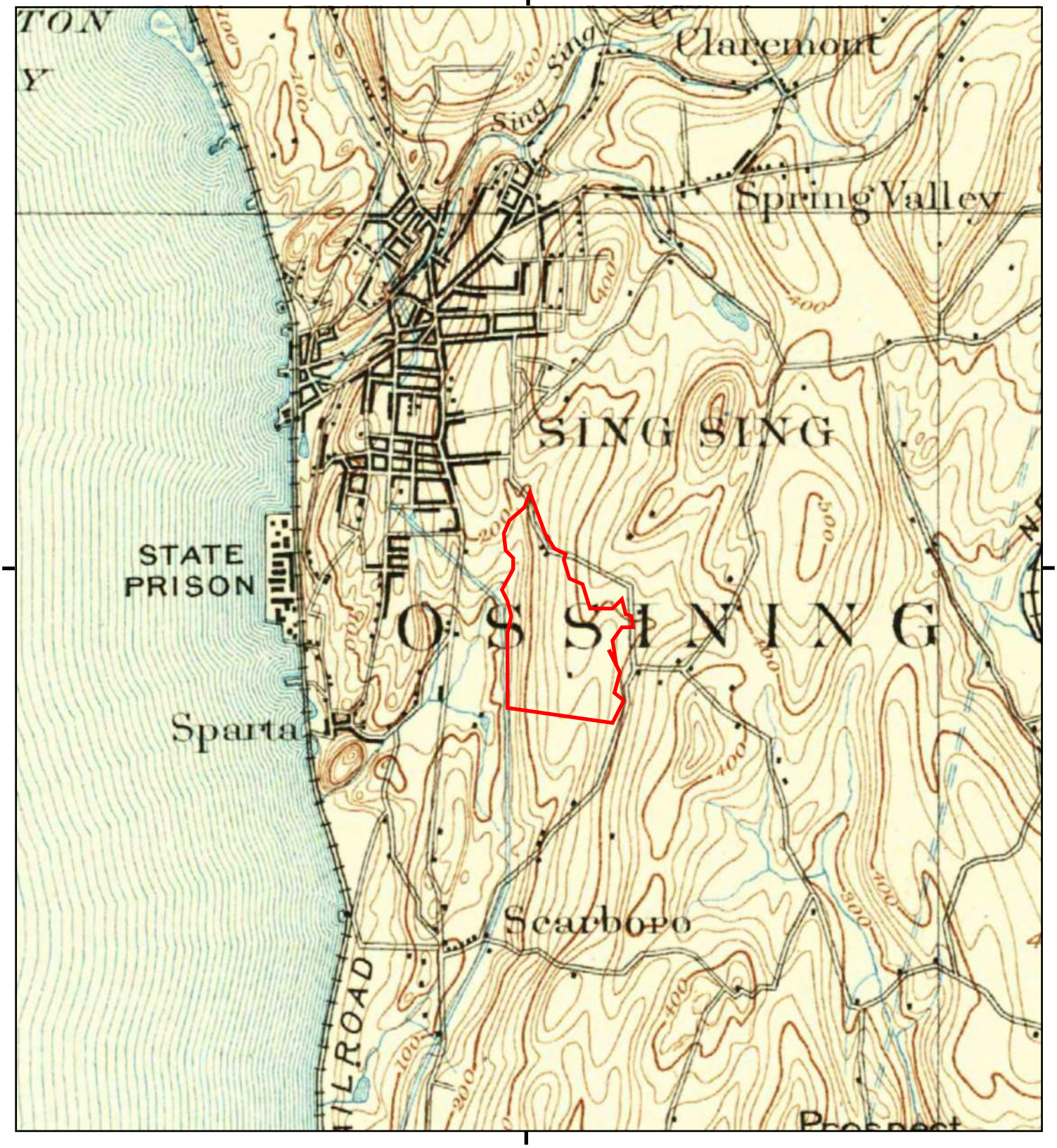
TP, Tarrytown, 1902, 15-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N

Historical Topo Map

1893



This report includes information from the following map sheet(s).

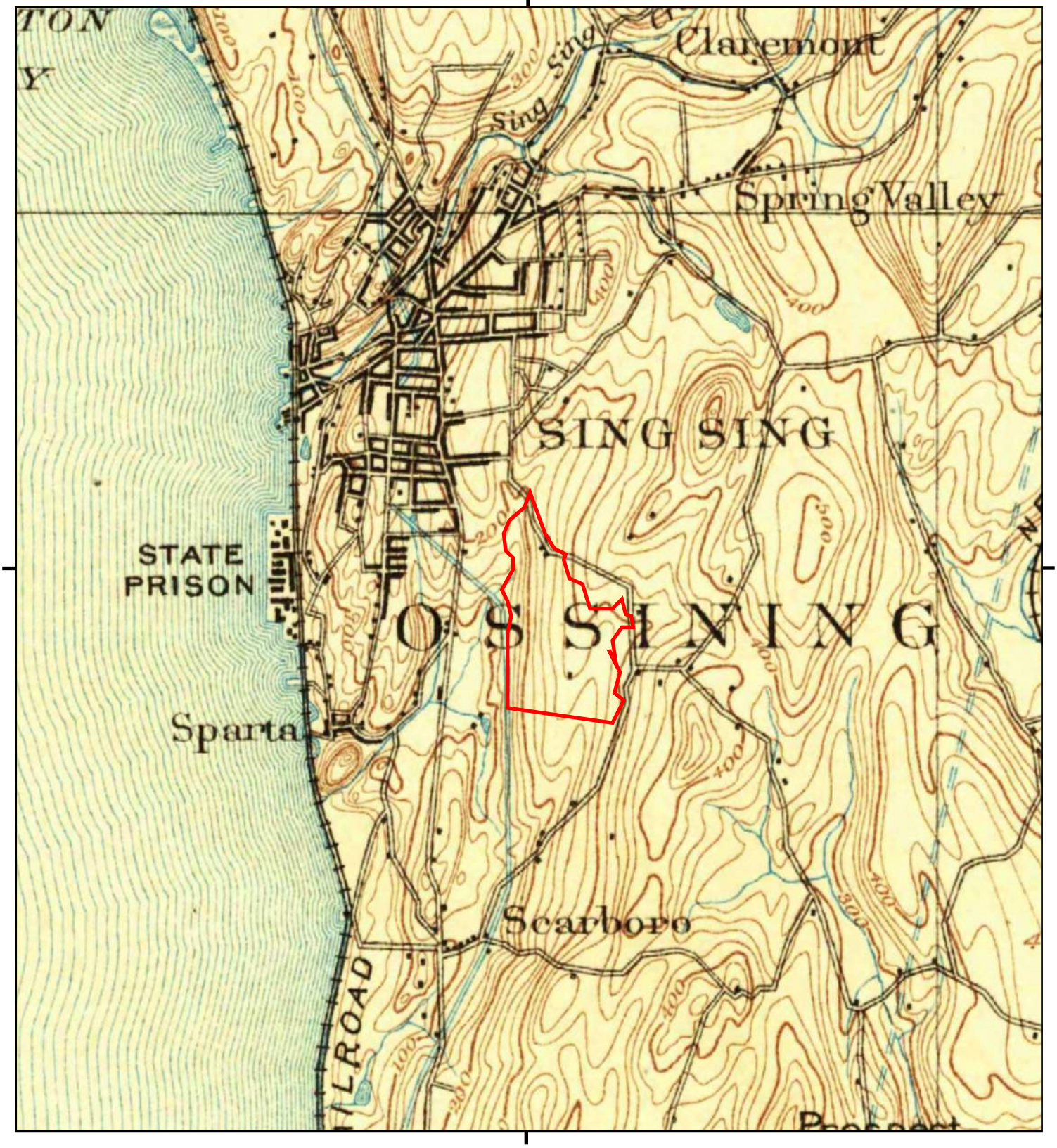
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tarrytown, 1893, 15-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tarrytown, 1892, 15-minute

SITE NAME: Projecg # 223152
ADDRESS: 345 Scarborough Road
BRIARCLIFF MANOR, NY 10510
CLIENT: Environmental Affiliates

N

SECTION

G

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Response time to my FOIL request? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=146)

Exceptions to disclosing records? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=151)

Fees I have to pay? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=147)

Can I inspect documents first? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=150)

Processing of my request? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=149)

How I pay fees? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=148)

How do I appeal a denial of access? (/WEBAPP/_rs/(S(pd3ubhxlg35lp05z2j4l0khf))/AnswerDetail.aspx?sSessionID=&aid=152)

Description:

A FOIL request is a request for any "record" under NY's Freedom of Law (Article 6 of the Public Officers Law). Section 86 defines a "recor information kept, held, filed, produced or reproduced by, with or fo or the state legislature, in any physical form whatsoever including, b limited to, reports, statements, examinations, memoranda, opinion files, books, manuals, pamphlets, forms, papers, designs, drawings, photos, letters, microfilms, computer tapes or discs, rules, regulatio NYSDEC maintains records in a variety of forms, or media, such as ir (on paper), as recordings, as photographs, in electronic form, etc.

Contact E-Mail:

foils@enafco.com

Type of Record(s) Requested:*

Other

Description of Record(s) Requested:*

345 Scarborough Road, Briarcliff Manor, NY 10510
Section ID: 97.16-1-1, 97.12-1-11, 97.12-1-10, 97.12-1-9
Please provide documentation concerning aboveground/undergro heating oil storage tanks (ASTs/USTs), spills, leaks, and site remedi property listed above.

NYSDEC Office processing the Request:*

- Central Office (Albany) Covers the entire state
- Region 1 (Long Island) Covers the counties of Nassau and Su
- Region 2 (New York City) Covers the counties of Brooklyn Bro Manhattan Queens and Staten Island
- ● Region 3 (Lower Hudson Valley) Covers the counties of Dutch Orange Putnam Rockland Sullivan Ulster and Westchester
- Region 4 (Capital Region Northern Catskills) Covers the coun Albany Columbia Delaware Greene Montgomery Otsego Ren Schenectady and Schoharie
- Region 5 (Eastern Adirondacks Lake Champlain) Covers the c Clinton Essex Franklin Fulton Hamilton Saratoga Warren and Washington
- Region 6 (Western Adirondacks Eastern Lake Ontario) Cover counties of Herkimer Jefferson Lewis Oneida and St. Lawren
- Region 7 (Central New York) Covers the counties of Broome Chenango Cortland Madison Onondaga Oswego Tioga and T
- Region 8 (Western Finger Lakes) Covers the counties of Chen Genesee Livingston Monroe Ontario Orleans Schuyler Senec Wayne and Yates
- Region 9 (Western New York) Covers the counties of Allegan Chautauqua Cattaraugus Erie Niagara and Wyoming countie

If your request pertains to just one Region, select that Region. I request pertains to more than one Region, select Central Office unsure which Region your request pertains to, select Central Of Department will route your request to the appropriate Region(s

Preferred Method to Receive Records:*

- ● Electronic copies

Pick-up Copies

Inspect in Office

Copies by Fax

Express Mail (UPS)

Regular Surface Mail (USPS)

**NYSDEC will use its best efforts to provide records via the meth
select. However, in some cases a particular delivery method is r
In such cases NYSDEC will deliver the records via an alternative**

Please note not all public documents are available in electronic format. If the document(s) requested are not available ele
we will make them available for inspection or by paper copy in accordance with the Public Records Law.

Note: The maximum total file size per attachment is 80MB.

No Files Selected

SELECT FILE or Drop file here

Submit Cancel

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0701008

Spill Date/Time

Spill Date: 04/20/2007 **Spill Time:** 02:10:00 PM
Call Received Date: 04/24/2007 **Call Received Time:** 03:36:00 PM

Location

Spill Name: WEST SIDE OF BUILDING
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
motor oil	1 Gal.	Soil

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 12/10/2007

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9211458

Spill Date/Time

Spill Date: 01/06/1993 **Spill Time:** 09:20:00 AM
Call Received Date: 01/06/1993 **Call Received Time:** 09:53:00 AM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	100 Gal.	Soil

Cause: Human Error
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 01/07/1993

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9703570

Spill Date/Time

Spill Date: 06/23/1997 **Spill Time:** 11:00:00 AM
Call Received Date: 06/23/1997 **Call Received Time:** 12:02:00 PM

Location

Spill Name: PHILIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	100 Gal.	Soil

Cause: Equipment Failure
Source: Institutional, Educational, Gov., Other
Waterbody:

Record Close

Date Spill Closed: 11/10/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0410334

Spill Date/Time

Spill Date: 12/17/2004 **Spill Time:** 08:46:00 AM
Call Received Date: 12/17/2004 **Call Received Time:** 08:46:00 AM

Location

Spill Name: PHILIPS RESEARCH
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Groundwater

Cause: Equipment Failure
Source: Non Major Facility > 1,100 gal
Waterbody:

Record Close

Date Spill Closed: 11/05/2009

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 1308235

Spill Date/Time

Spill Date: 11/13/2013 **Spill Time:** 07:00:00 AM
Call Received Date: 11/13/2013 **Call Received Time:** 10:05:00 AM

Location

Spill Name: PHILIPS
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	10 Gal.	Unknown

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 11/13/2013

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9109356

Spill Date/Time

Spill Date: 11/29/1991 **Spill Time:** 12:00:00 PM
Call Received Date: 12/03/1991 **Call Received Time:** 02:30:00 PM

Location

Spill Name: PHILIPS LABS
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
unknown petroleum	UNKNOWN	Air

Cause: Abandoned Drums
Source: Institutional, Educational, Gov., Other
Waterbody:

Record Close

Date Spill Closed: 03/17/1992

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9614999

Spill Date/Time

Spill Date: 03/27/1997 **Spill Time:** 12:00:00 PM
Call Received Date: 03/27/1997 **Call Received Time:** 01:31:00 PM

Location

Spill Name: PHILLIPS LAB
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
hydraulic oil	1 Gal.	Soil

Cause: Equipment Failure
Source: Commercial Vehicle
Waterbody:

Record Close

Date Spill Closed: 03/28/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

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Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9207085

Spill Date/Time

Spill Date: 09/18/1992 **Spill Time:** 04:48:00 PM
Call Received Date: 09/18/1992 **Call Received Time:** 04:52:00 PM

Location

Spill Name: PHILLIPS LAB
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 08/27/1993

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9605979

Spill Date/Time

Spill Date: 08/08/1996 **Spill Time:** 12:00:00 PM
Call Received Date: 08/08/1996 **Call Received Time:** 01:18:00 PM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH ROAD
City: BRIARCLIFF MANOR **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 01/07/1997

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0205462

Spill Date/Time

Spill Date: 08/24/2002 **Spill Time:** 01:15:00 PM
Call Received Date: 08/24/2002 **Call Received Time:** 01:20:00 PM

Location

Spill Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 09/26/2002

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 0403556

Spill Date/Time

Spill Date: 07/02/2004 **Spill Time:** 11:30:00 AM
Call Received Date: 07/02/2004 **Call Received Time:** 12:51:00 PM

Location

Spill Name: PHILLIPS RESEARCH
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Tank Test Failure
Source: Non Major Facility > 1,100 gal
Waterbody:

Record Close

Date Spill Closed: 12/10/2004

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9108436

Spill Date/Time

Spill Date: 11/07/1991 **Spill Time:** 09:00:00 AM
Call Received Date: 11/07/1991 **Call Received Time:** 10:40:00 AM

Location

Spill Name: PHILLIPS LABORATORIES
Address: 345 SCARBOROUGH RD
City: BRIARCLIFF **County:** Westchester

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Groundwater

Cause: Tank Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 11/25/1991

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

Search Summary Report

TARGET SITE **345 SCARBOROUGH ROAD**
BRIARCLIFF MANOR, NY 10510

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	1	0	1
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	2	-	0	2
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	1	0	3	-	-	0	4
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	1	-	-	-	-	0	1
State/Tribal CERCLIS	Y	0	0	0	1	1	0	2
State/Tribal SWL	Y	0	0	0	1	-	0	1
State/Tribal LTANKS	Y	2	16	16	55	-	3	92
State/Tribal Tanks	Y	0	7	9	-	-	0	16
State/Tribal IC / EC	Y	0	0	0	-	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
ST/Tribal Brownfields	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	0	0
Other Tanks	Y	0	0	0	-	-	0	0
Spills	Y	3	22	-	-	-	0	25
Other	Y	4	0	11	-	-	0	15
	- Totals --	11	45	39	59	2	3	159

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Freedom of Information Law

The Westchester County administration is committed to running a transparent government. As part of that, it complies with the New York State Freedom of Information Law (FOIL). In addition, many county records, including those relating to county contracts, are available online.

FOIL provides the public with the right to access certain government records. The New York State Legislature clearly noted the purpose of FOIL, as specified in the New York State Public Officers Law §84:

> The legislature hereby finds that a free society is maintained when government is responsive and responsible to the public, and when the public is aware of governmental actions. The more open a government is with its citizenry, the greater the understanding and participation of the public in government.

FOIL requires governments to accept FOIL requests for records submitted in the form of electronic mail and to respond by electronic mail to the extent practicable.

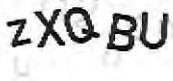
If you wish to make a FOIL request for documents by e-mail, enter at least the required information, as indicated by the field names in bold text and then select from the drop down menu the appropriate county department to which you wish to direct your FOIL request. If you have documents to send to the department, wait until the department contacts you to coordinate sending any further information.

Name	Brooke Kirshner
E-mail Address	FOILS@enafco.com
Confirm e-mail address	FOILS@enafco.com
Street Address	3 Lodi Lane
City	Monsey
State	NY
ZIP	10952
Comments	345 Scarborough Road, Briarcliff Manor, NY 10510 Section ID: 97.16-1-1, 97.12-1-11, 97.12-1-10, 97.12-1-9 Please provide documentation concerning aboveground/underground heating oil storage tanks (ASTs/USTs), spills, leaks, and site remediation at the

From the drop-down menu, select the department to which you wish to send your FOIL request:

Department List County Clerk

Enter the verification code in the field below in order to submit the form. If you cannot read the code, click the circle of arrows to retrieve a different one.

ZXQBU  refresh

Submit

Powered By ChronoForms - ChronoEngine.com

FOIL Request Has Been Sent

Your request for information has been sent. Someone from the specified department will contact you soon.

Powered By ChronoForms - ChronoEngine.com

Projecg # 223152
345 Scarborough Road
BRIARCLIFF MANOR, NY 10510

Inquiry Number: 6896069.6s
March 14, 2022

FirstSearch Physical Setting Source Addendum

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum **A-1**

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Physical Setting Source Records Searched **PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PROJECG # 223152
345 SCARBOROUGH ROAD
BRIARCLIFF MANOR, NY 10510

TARGET PROPERTY COORDINATES

Latitude (North):	41.151531 - 41^ 9' 5.51"
Longitude (West):	73.856172 - 73^ 51' 22.22"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	595980.5
UTM Y (Meters):	4555997.0
Elevation:	216 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41073-B7 OSSINING, NY
Version Date:	1979
West Map:	41073-B8 HAVERSTRAW, NY
Version Date:	1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

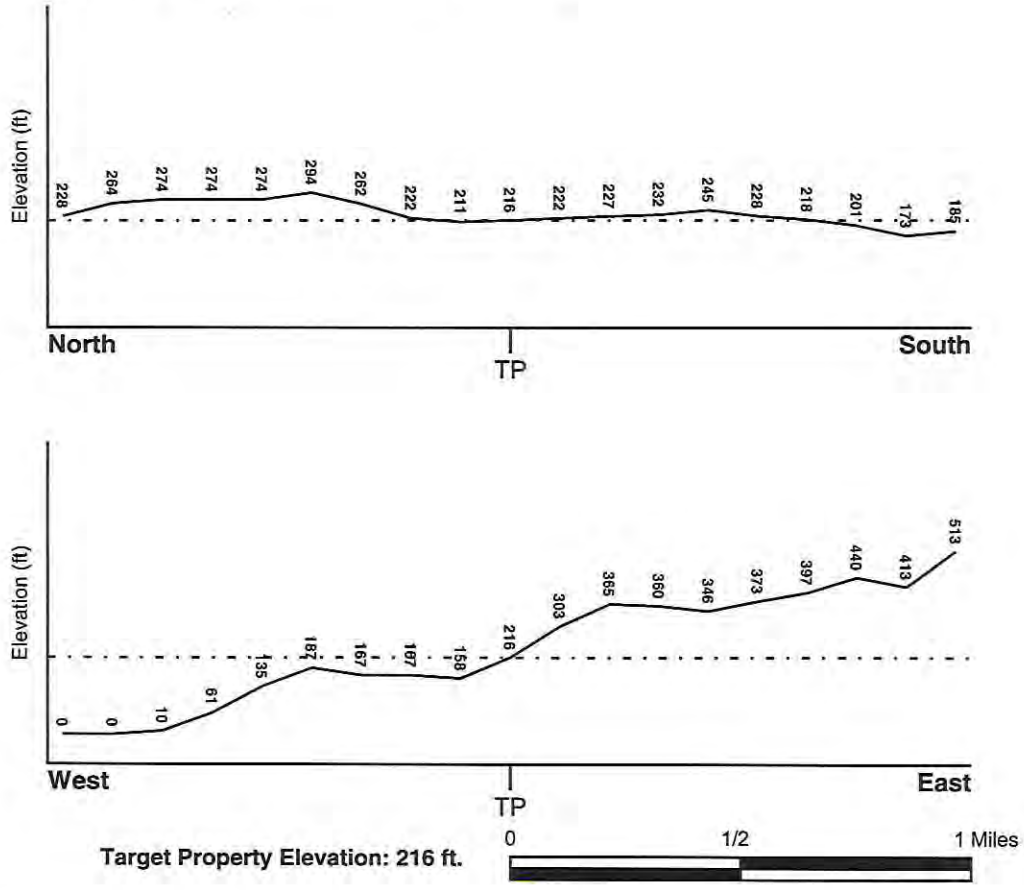
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
36119C0138F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
36119C0136F	FEMA FIRM Flood data
36119C0137F	FEMA FIRM Flood data
36087C0119G	FEMA FIRM Flood data
3612410004B	FEMA Q3 Flood data
36119C0139F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OSSINING	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

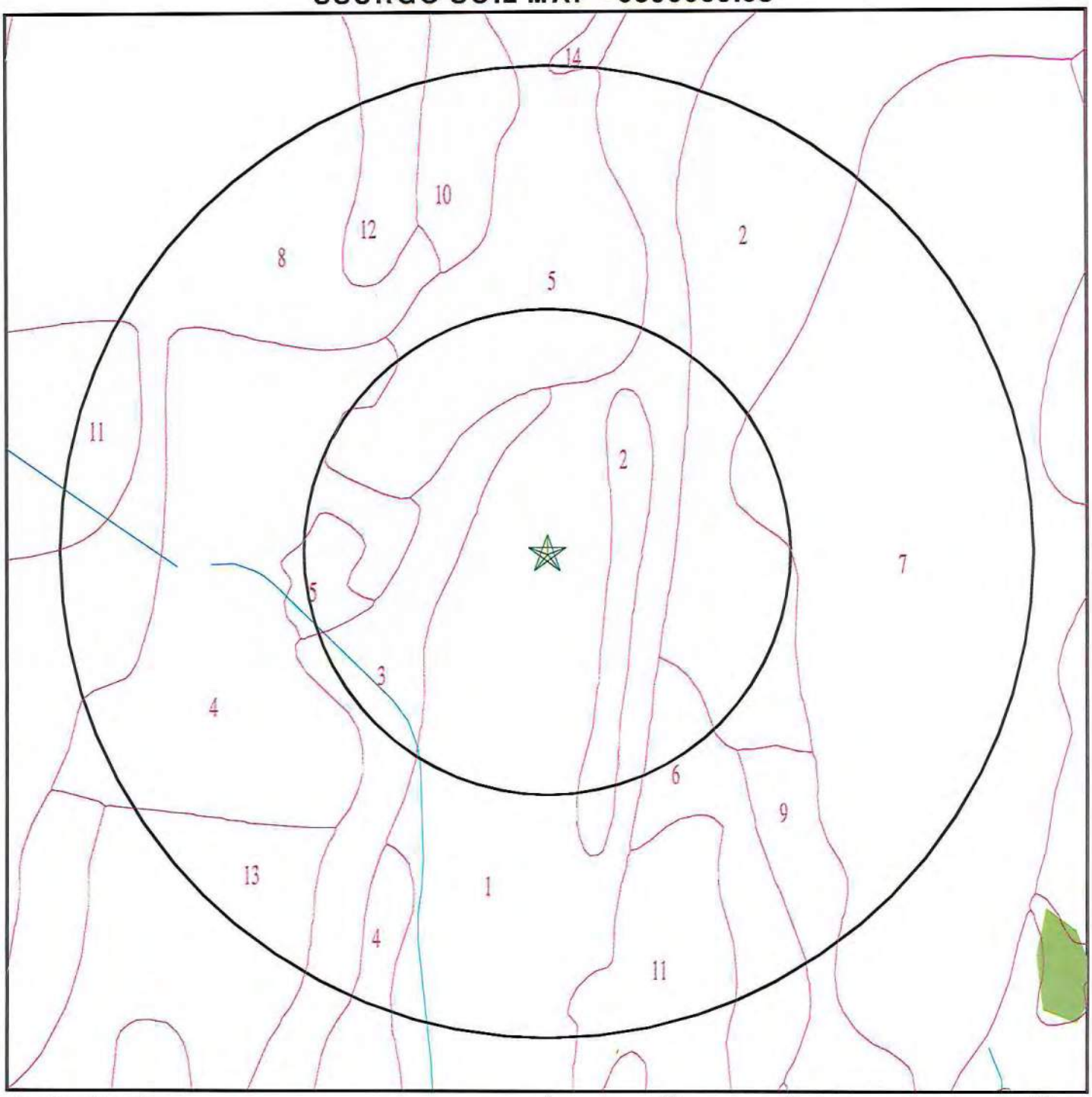
Era:	Paleozoic
System:	Ordovicias
Series:	Lower Ordovician and Cambrian carbonate rocks
Code:	OC *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6896069.6s



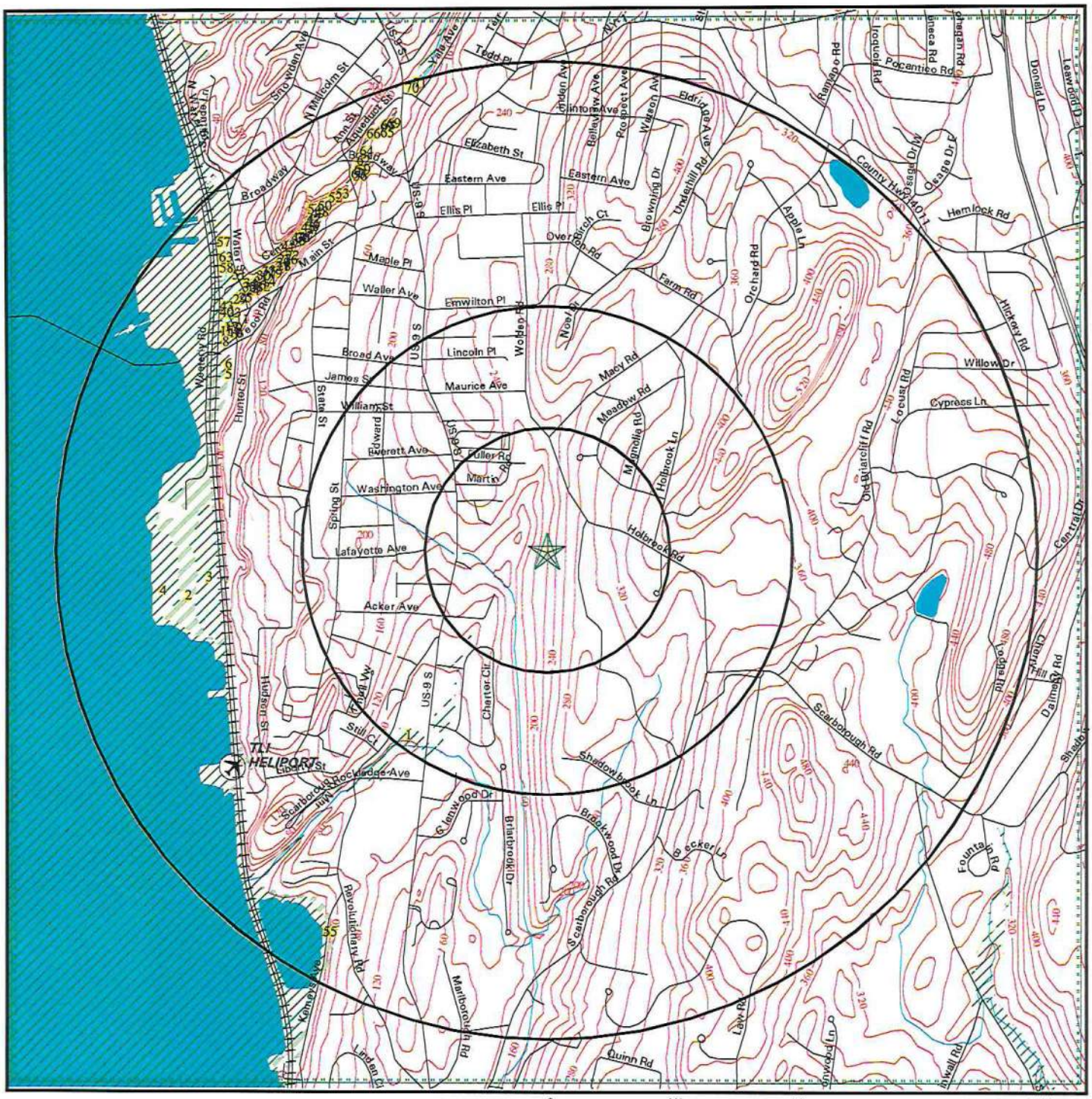
★ Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

SITE NAME:	Projecg # 223152	CLIENT:	Environmental Affiliates
ADDRESS:	345 Scarborough Road BRIARCLIFF MANOR NY 10510	CONTACT:	ALEXANDER Friedman
		INQUIRY #:	6896069.6s
LAT/LONG:	41.151531 / 73.856172	DATE:	March 14, 2022 8:30 am

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Flood Plain Map



SITE NAME:	Projecg # 223152	CLIENT:	Environmental Affiliates
ADDRESS:	345 Scarborough Road BRIARCLIFF MANOR NY 10510	CONTACT:	ALEXANDER Friedman
		INQUIRY #:	6896069.7s
LAT/LONG:	41.151531 / 73.856172	DATE:	March 14, 2022

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FLOOD PLAIN MAP FINDINGS

Source: FEMA FIRM Flood Data, FEMA Q3 Flood Data

Flood Panel Number **FEMA Source Type**

Flood Plain panel at target property:
36119C0138F (FEMA FIRM Flood data)

Additional Flood Plain panel(s) in search area:
36119C0136F (FEMA FIRM Flood data)
36119C0137F (FEMA FIRM Flood data)
36087C0119G (FEMA FIRM Flood data)
3612410004B (FEMA Q3 Flood data)
36119C0139F (FEMA FIRM Flood data)

Map ID Direction Distance Distance (ft.)	Description		Database
1	Special Flood Hazard Area:	Yes	FLOODPLAIN
SW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/8-1/4 mi	Flood Zone:	A	
1086	Sub Type:	Not Reported	
2	Special Flood Hazard Area:	No	FLOODPLAIN
West	Flood Hazard Area:	0.2% Annual Chance Flood Hazard	
1/2-1 mi	Flood Zone:	X	
3487	Sub Type:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	
3	Special Flood Hazard Area:	Yes	FLOODPLAIN
West	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
3495	Sub Type:	Not Reported	
4	Special Flood Hazard Area:	Yes	FLOODPLAIN
WSW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
3598	Sub Type:	Not Reported	
5	Special Flood Hazard Area:	No	FLOODPLAIN
WNW	Flood Hazard Area:	0.2% Annual Chance Flood Hazard	
1/2-1 mi	Flood Zone:	X	
3887	Sub Type:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
6 WNW 1/2-1 mi 3952	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
7 NW 1/2-1 mi 4083	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
8 WNW 1/2-1 mi 4087	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
9 NW 1/2-1 mi 4098	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
10 NW 1/2-1 mi 4099	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
11 NW 1/2-1 mi 4109	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
12 NW 1/2-1 mi 4133	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
13 NW 1/2-1 mi 4141	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
14 NW 1/2-1 mi 4144	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
15 NW 1/2-1 mi 4174	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
16 NW 1/2-1 mi 4178	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
17 NW 1/2-1 mi 4178	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
18 NW 1/2-1 mi 4184	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
19 NW 1/2-1 mi 4189	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
20 NW 1/2-1 mi 4202	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
21 NW 1/2-1 mi 4206	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
22 NW 1/2-1 mi 4212	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
23 NW 1/2-1 mi 4221	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
24 NW 1/2-1 mi 4229	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
25 NW 1/2-1 mi 4231	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
26 NW 1/2-1 mi 4238	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
27 NW 1/2-1 mi 4239	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
28 NW 1/2-1 mi 4243	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
29 NW 1/2-1 mi 4253	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
30 NW 1/2-1 mi 4261	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
31 NW 1/2-1 mi 4261	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
32 NW 1/2-1 mi 4262	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
33 NW 1/2-1 mi 4262	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
34 NW 1/2-1 mi 4269	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
35 NW 1/2-1 mi 4289	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
36 NW 1/2-1 mi 4291	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
37 NW 1/2-1 mi 4294	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
38 NW 1/2-1 mi 4297	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
39 NW 1/2-1 mi 4298	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
40 NW 1/2-1 mi 4304	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
41 NW 1/2-1 mi 4307	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
42 NW 1/2-1 mi 4309	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
43 NW 1/2-1 mi 4312	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
44 NW 1/2-1 mi 4331	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
45 NW 1/2-1 mi 4337	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
46 NW 1/2-1 mi 4349	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
47 NW 1/2-1 mi 4372	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
48 NNW 1/2-1 mi 4407	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
49 NW 1/2-1 mi 4415	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
50 NNW 1/2-1 mi 4441	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
51 NW 1/2-1 mi 4442	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
52 NNW 1/2-1 mi 4457	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
53 NNW 1/2-1 mi 4458	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
54 NNW 1/2-1 mi 4463	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
55 SSW 1/2-1 mi 4494	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
56 NNW 1/2-1 mi 4519	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
57 NW 1/2-1 mi 4531	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
58 NW 1/2-1 mi 4532	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
59 NNW 1/2-1 mi 4558	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
60 NNW 1/2-1 mi 4567	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
61 NNW 1/2-1 mi 4581	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN

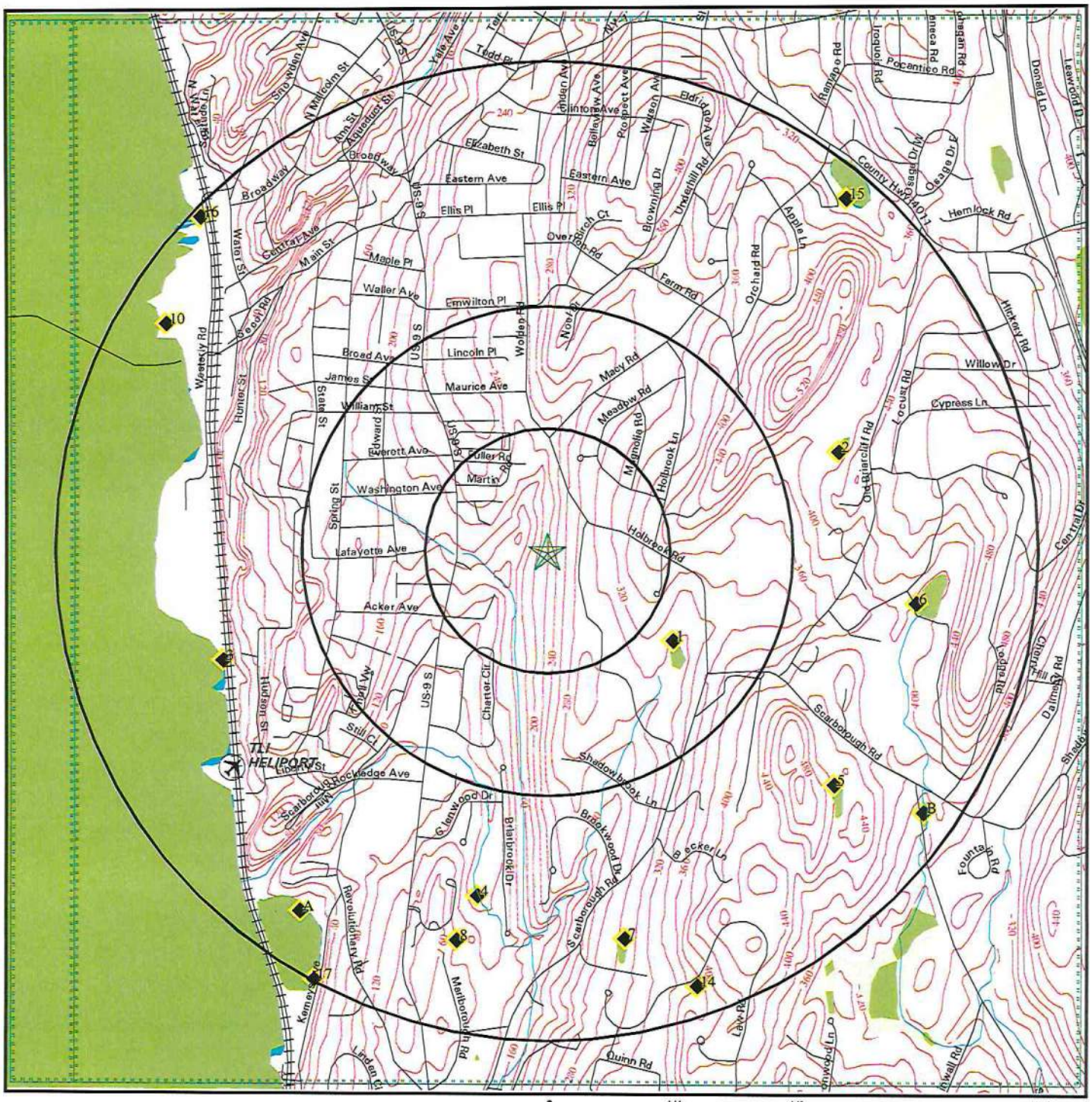
FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
62 NNW 1/2-1 mi 4669	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
63 NW 1/2-1 mi 4677	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
64 NNW 1/2-1 mi 4701	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
65 NNW 1/2-1 mi 4847	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
66 NNW 1/2-1 mi 4886	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
67 NNW 1/2-1 mi 4901	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN
68 NNW 1/2-1 mi 4907	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
69 NNW 1/2-1 mi 4908	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

FLOOD PLAIN MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Description		Database
70 NNW 1/2-1 mi 5192	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE FLOODWAY	FLOODPLAIN
71 NNW 1/2-1 mi 5252	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZARD	FLOODPLAIN

Wetlands Map



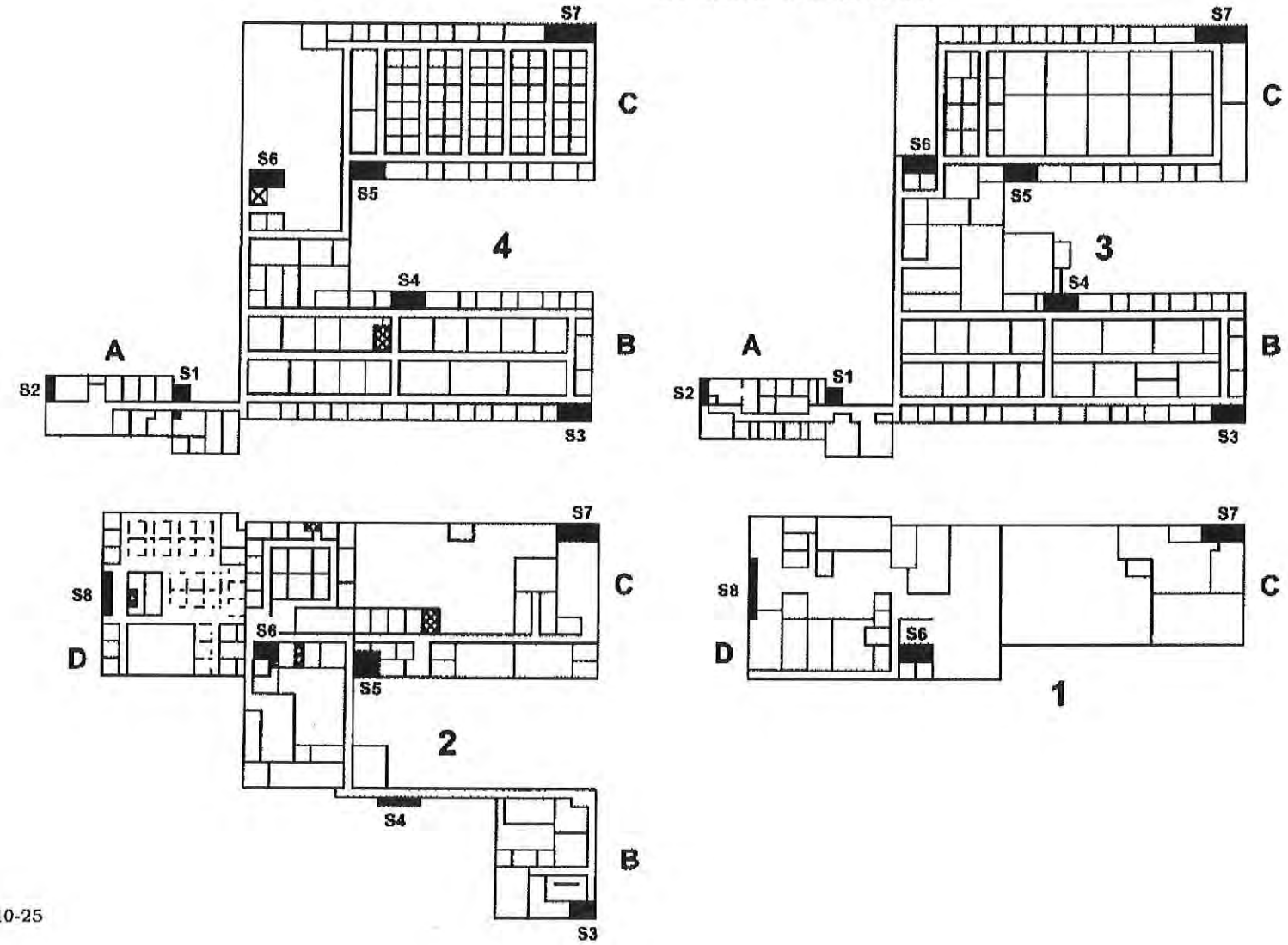
SITE NAME:	Projecg # 223152	CLIENT:	Environmental Affiliates
ADDRESS:	345 Scarborough Road BRIARCLIFF MANOR NY 10510	CONTACT:	ALEXANDER Friedman
		INQUIRY #:	6896069.7s
LAT/LONG:	41.151531 / 73.856172	DATE:	March 14, 2022

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Philips Research NA
Briarcliff Facility

Floor Plans

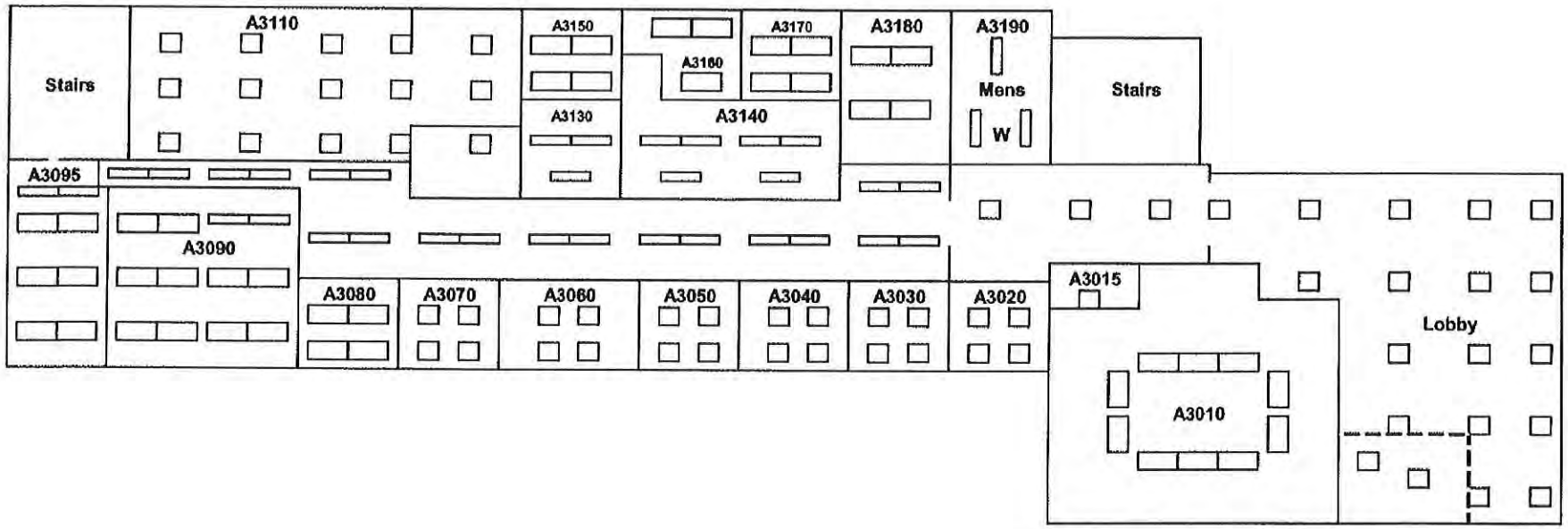
Location of Stairwells



Updated 2008-10-25

W.Osborne

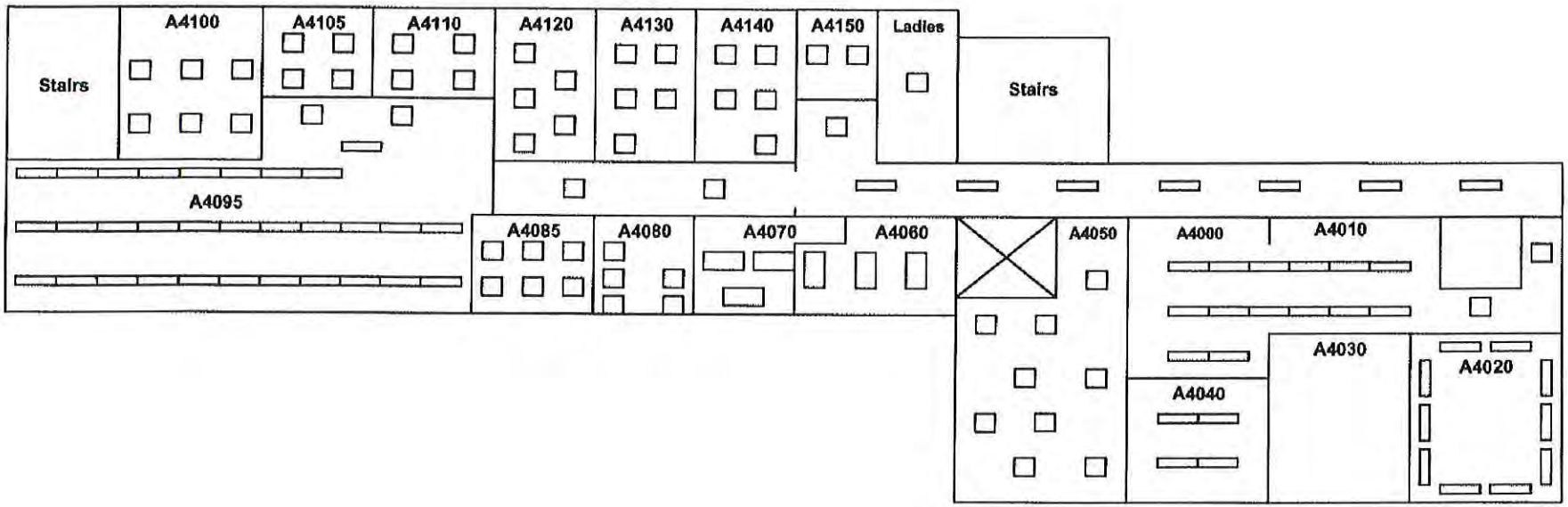
Third Floor Building A



Revised:2008-10-25

W.Osborne

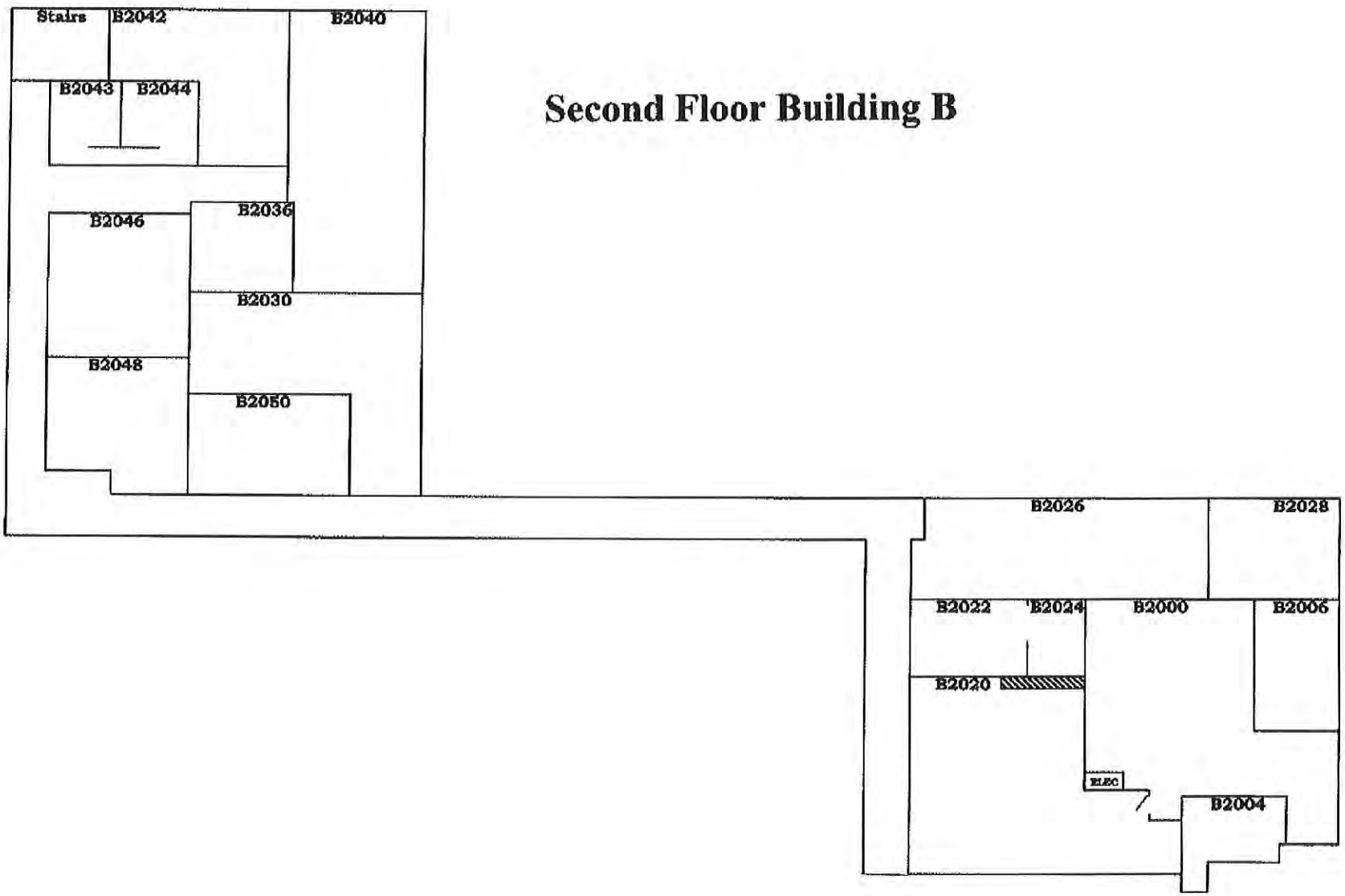
Fourth Floor Building A



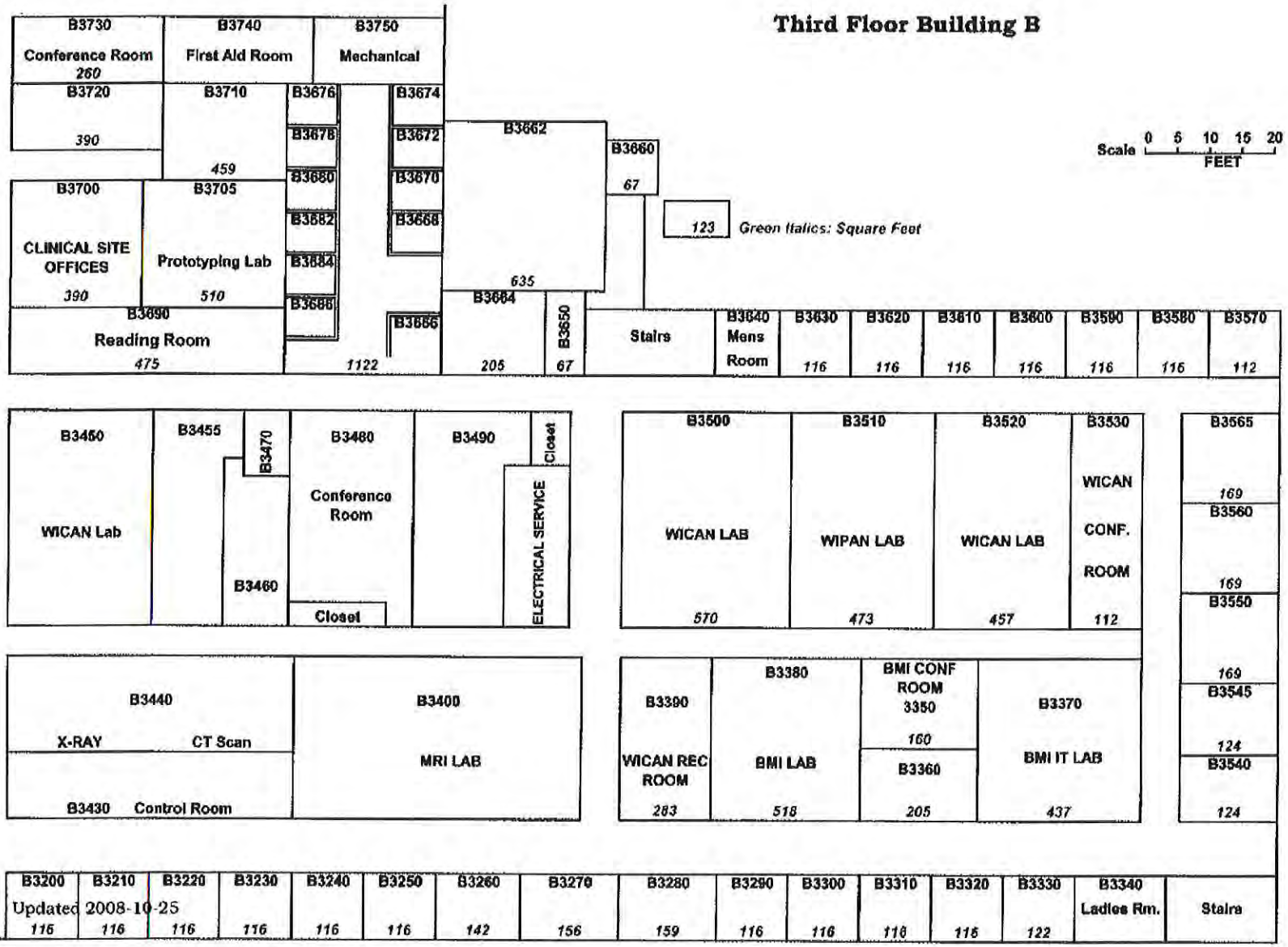
Revised:2008-10-25

W.Osborne

Second Floor Building B



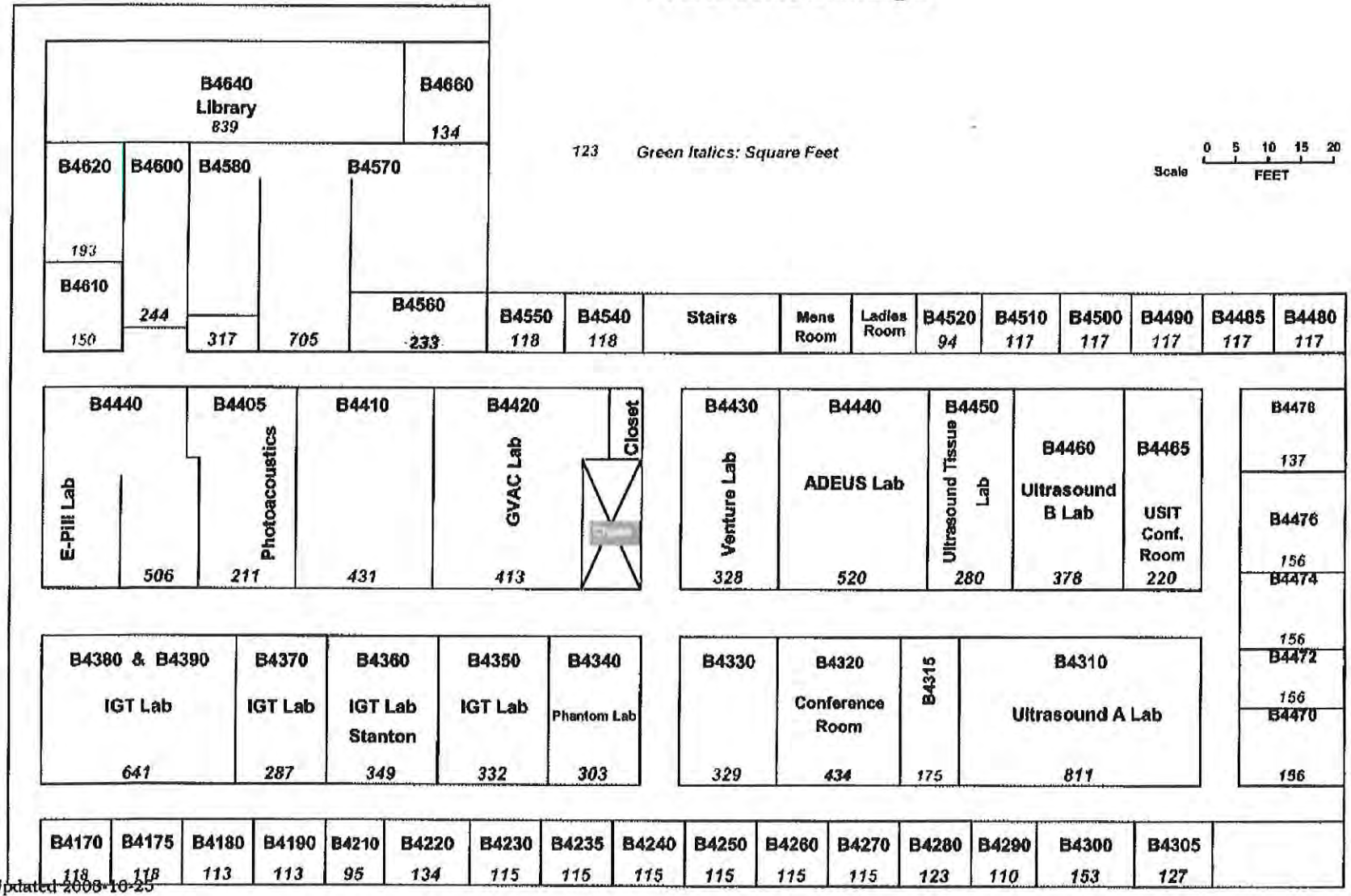
Third Floor Building B



Updated 2008-10-25

W.Osborne

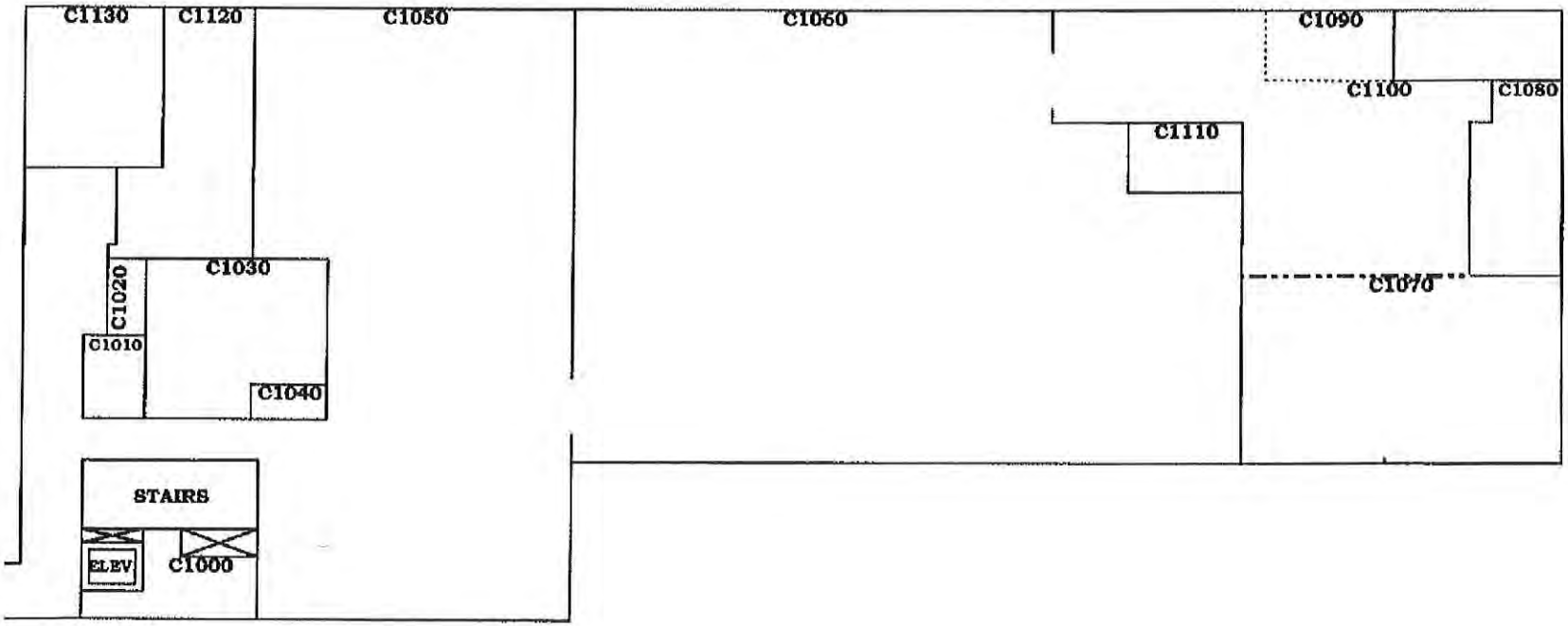
Fourth Floor Building B



Updated 2008-10-25

W.Osborne

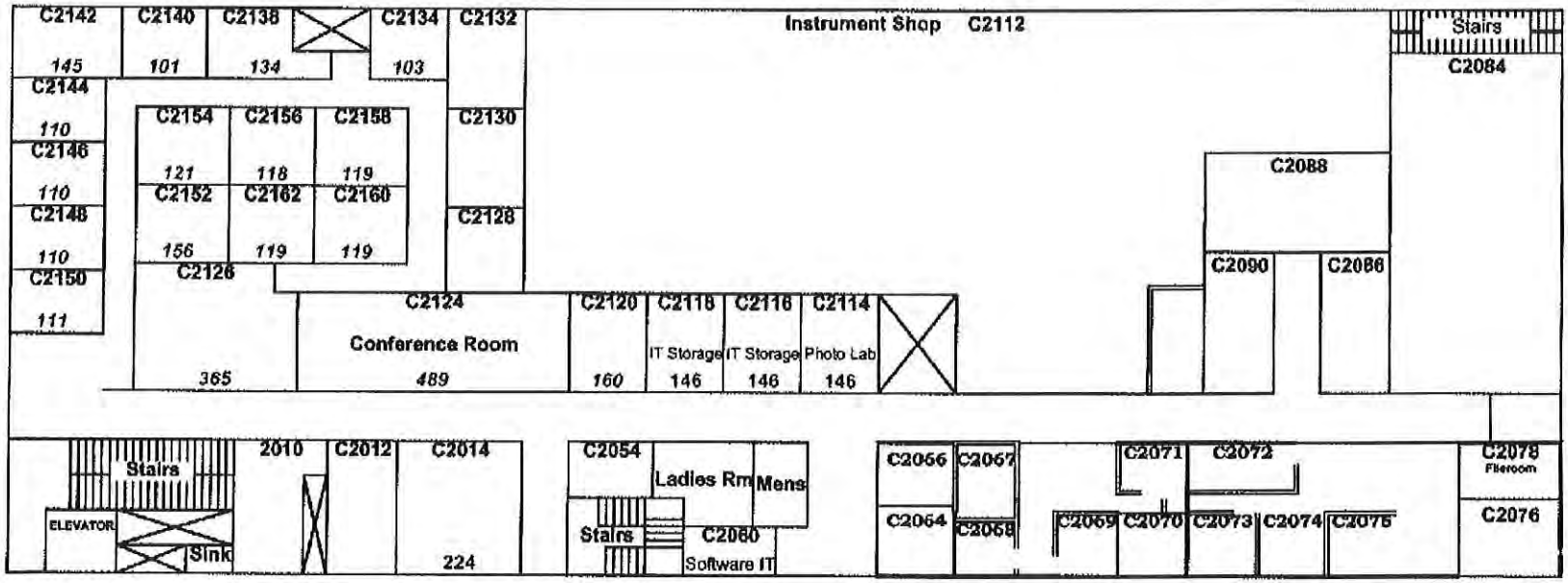
First Floor Building C



Updated 2008-10-25

W.Osborne

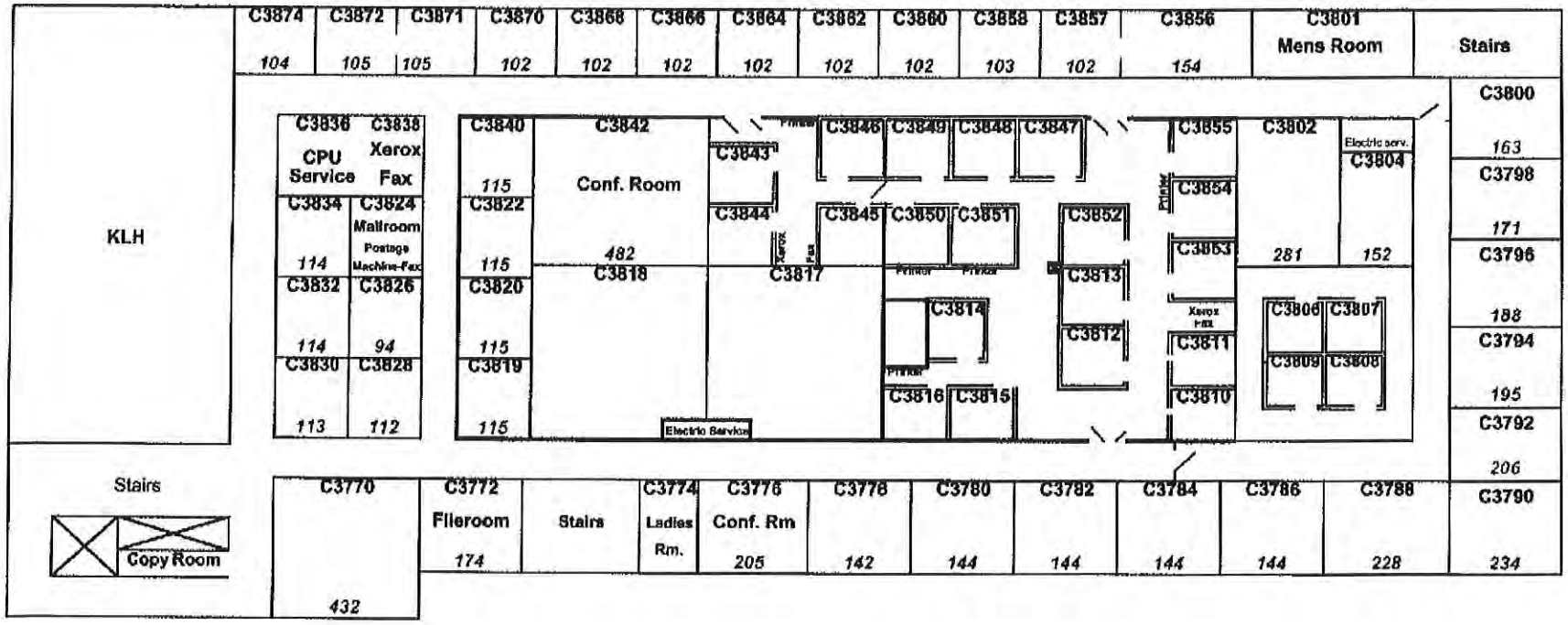
Second Floor Building C



Updated 2008-10-25

W.Osborne

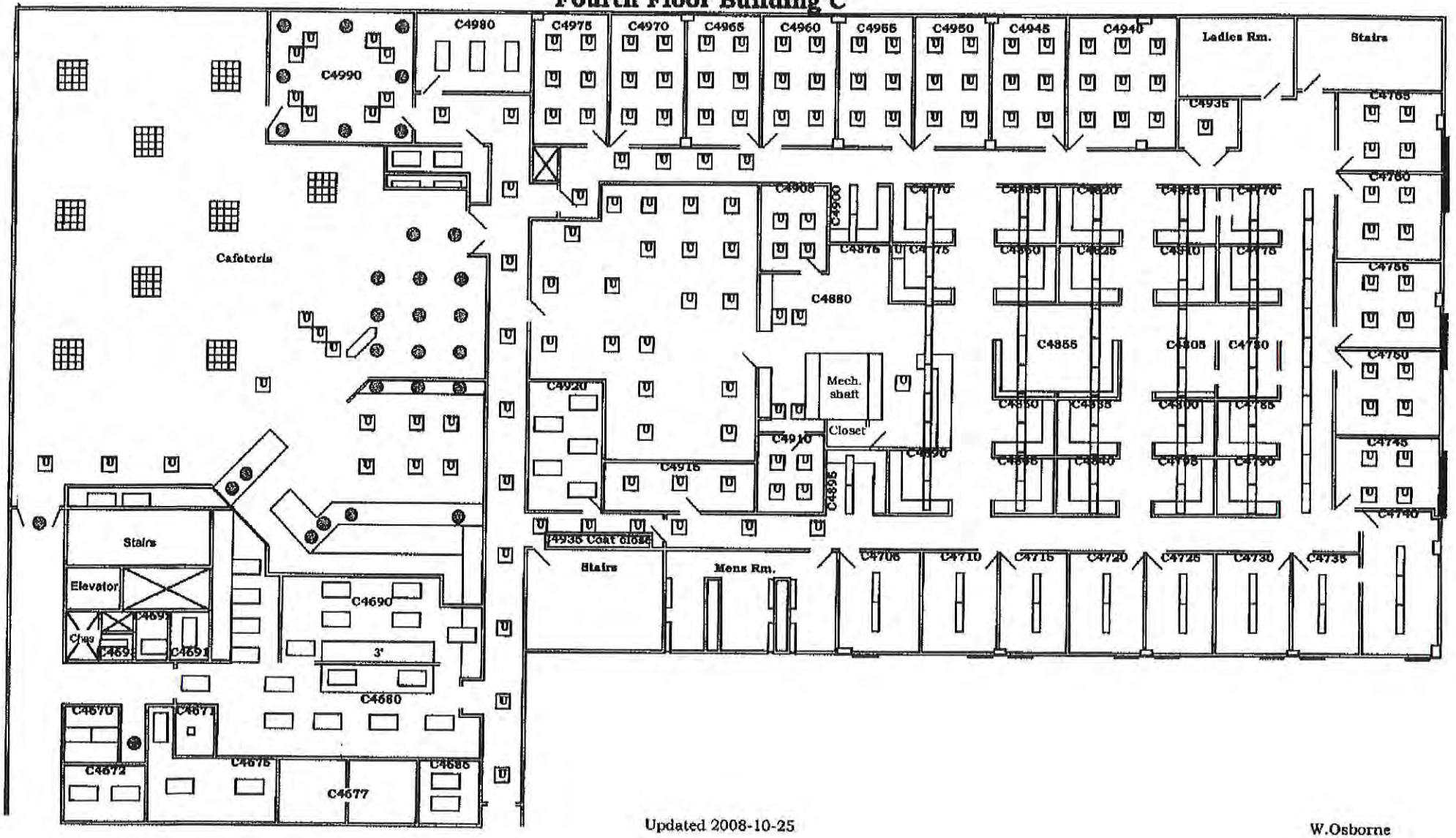
Third Floor Building C



Updated 2008-10-25

W.Osborne

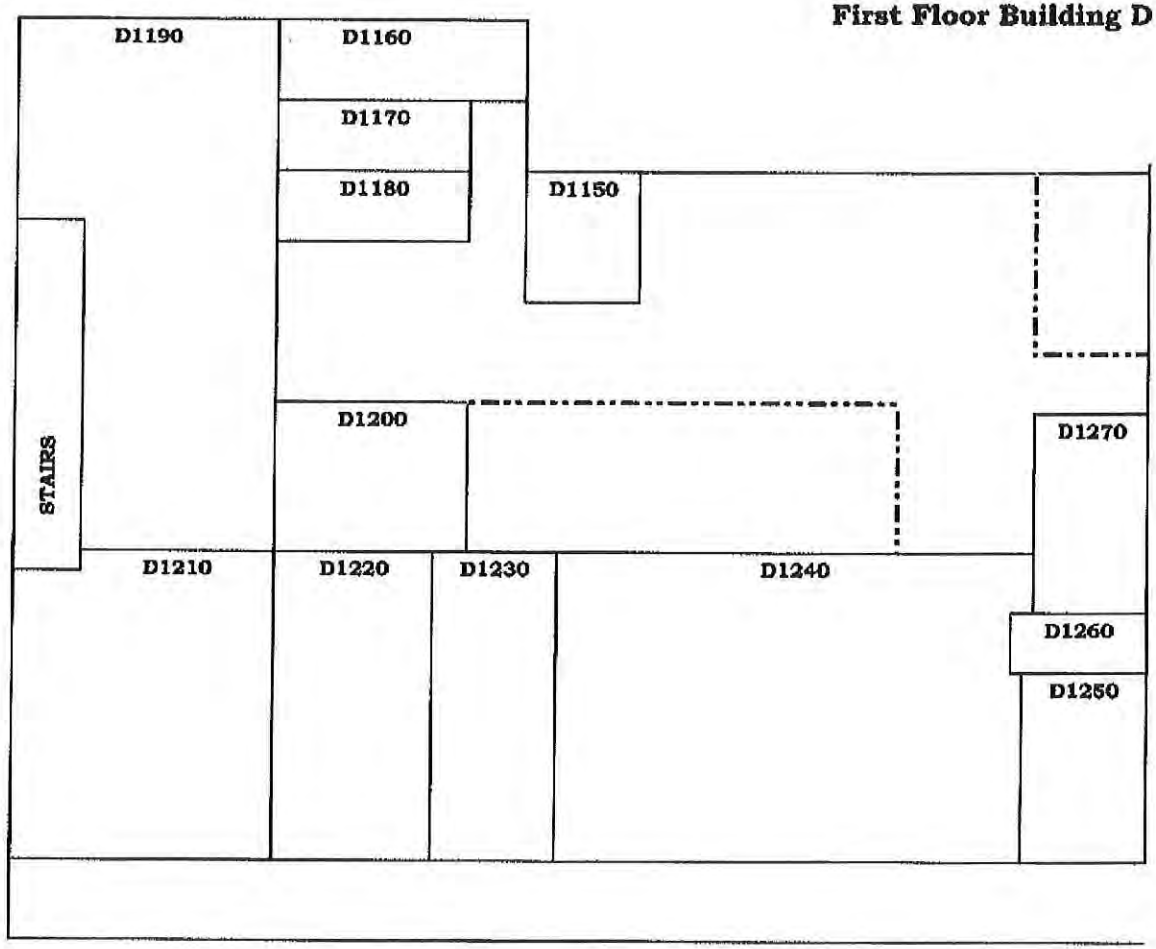
Fourth Floor Building C



Updated 2008-10-25

W.Osborne

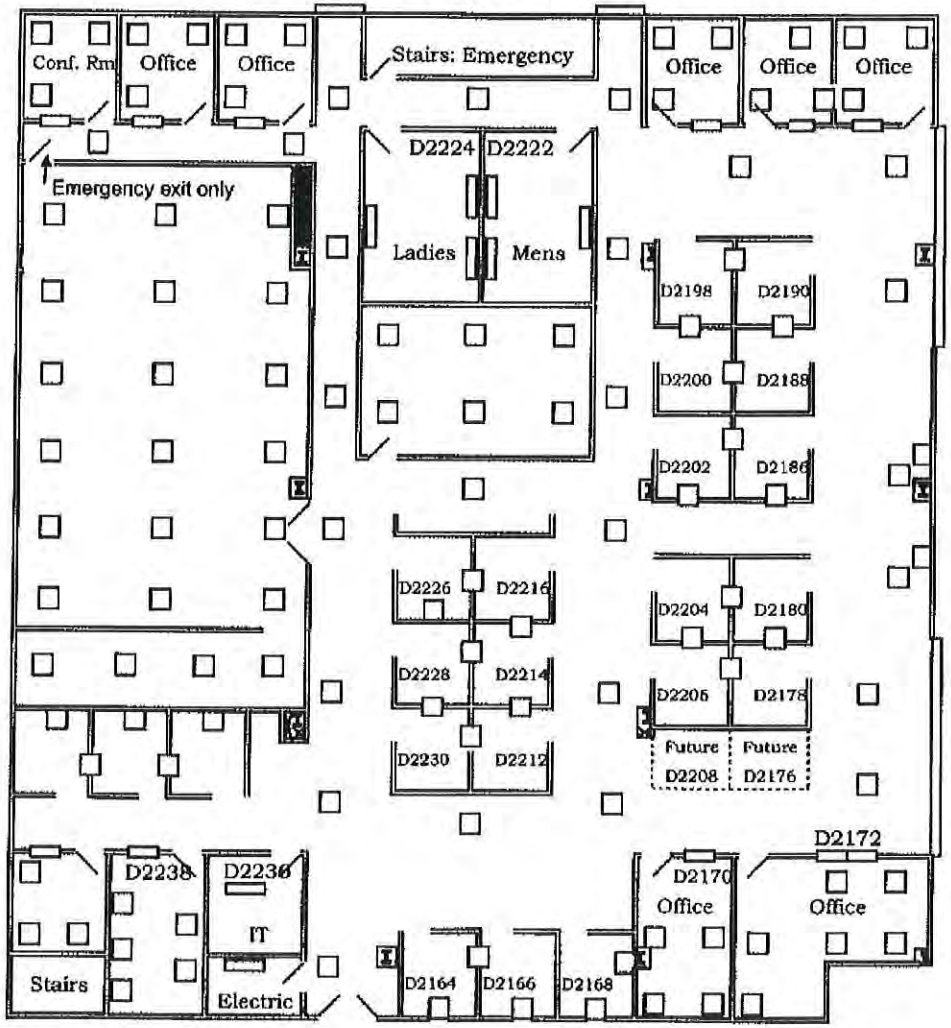
First Floor Building D



Updated 2008-10-25

W. Osborne

Second Floor Building D



Updated 2008-10-25

W.Osborne

ADJACENT PROPERTIES FOR:

345 SCARBOROUGH ROAD • BRIARCLIFF MANOR, NY 10510

PARCEL ID: 97.16-1-1

INDUSTRIAL

PARCEL ID	ADDRESS	TYPE	AKAs
97.16-1-1	***345 Scarborough Road***	***Subject Property***	***None***
97.08-2-17	8 Macy Road	Residential/Vacant Land	None
97.07-7-24	81-89 South Highland Avenue	Apartments	None
97.08-2-23	3 Macy Road	Residential	None
97.08-1-44	31 Fuller Road	Residential	None
97.08-1-43	33 Fuller Road	Residential	None
97.12-1-6	Crest Drive	Residential/Vacant Land	None
97.12-1-8	Crest Drive	Apartments	None
97.12-1-7	Crest Drive	Apartments	None
97.08-2-20	Crest Drive	Residential/Vacant Land	None
97.11-2-29	24 Fuller Road	Residential	None
97.11-2-30	22 Fuller Road	Residential	None
97.11-2-32	28 Martin Road	Residential	None
97.11-2-34	26 Martin Road	Residential	None
97.11-2-35	24 Martin Road	Residential	None
97.11-2-36	22 Martin Road	Residential	None
97.11-2-37	20 Martin Road	Residential	None
97.11-2-83.1	111/113 South Highland Avenue		None
97.11-2-82	117-121 South Highland Avenue	Apartments	None
97.12-1-13	152 Holbrook Road	Residential	None
97.12-1-12	178 Holbrook Road	Residential	None
97.12-1-55	155 Holbrook Road	Residential	None
97.12-1-56	169 Holbrook Road	Residential	None
97.12-1-57	181 Holbrook Road	Residential	None
97.12-1-58	201 Holbrook Road	Residential	None
97.12-1-59	11 Meadow Place	Residential	None
97.08-2-21	15 Meadow Place	Residential	None
97.08-2-22	14 Meadow Place	Residential	None
97.11-4-32	123-125 South Highland Avenue	Apartments	None
97.15-3-33	81 Charter Circle	Apartments	None
97.15-3-32	71 Charter Circle	Residential	None
97.16-1-8	90 Shadow Brook Lane	Residential	None
97.16-1-7	43 Shadow Brook Lane	Residential	None
97.16-1-6	21 Shadow Brook Lane	Residential	None
97.16-1-1	345 Scarborough Road	Industrial	None
97.16-1-21	366 Scarborough Road	Residential	None
97.16-1-5	309 Scarborough Road	Residential	None

97.16-1-4	293 Scarborough Road	Residential	None
97.16-1-2	16 Holbrook Road	Residential	None
97.12-1-21	54 Holbrook Road	Residential	None
97.16-1-2	3 Holbrook Road	Residential	None
97.12-1-20	84 Holbrook Road	Residential	None
97.12-1-19	94 Holbrook Road	Residential	None
97.12-1-18	100 Holbrook Road	Residential	None
97.12-1-17	120 Holbrook Road	Residential	None
97.12-1-14	140 Holbrook Road	Residential	None

PROJECT # 223152

E 1527 — 13
USER QUESTIONAIRE

Property Address: 345 SCARBOROUGH RD

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

☐ yes ☒ no

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

☐ yes **X** no

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
As the *user* of this *ESA* do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☐ yes ☒ no

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchased price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

☐ yes ☒ no

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

a. Do you know the past uses of the *property*?
☐ yes ☒ no

b. Do you know of specific chemicals that are present or once were present at the *property*?
☐ yes ☒ no

c. Do you know of spills or other chemical releases that have taken place at the *property*?
☐ yes ☒ no

d. Do you know of any environmental cleanups that have taken place at the *property*?
☑ yes ☒ no TANK REMOVAL

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

☐ yes ☒ no

Name and Title of Person Interviewed: ☐ owner ☐ partner ☐ manager ☐ superintendent

AL BONIZZI - SITE REP?


Untitled Map
Write a description for your map.
Legend
345 Scarborough Rd
TABASCO MEXICAN GRILL & DELI
Shadow Brook Ln
345 Scarborough Rd
Charter Cir
Google Earth
Image Landsat / Copernicus
N
500 ft



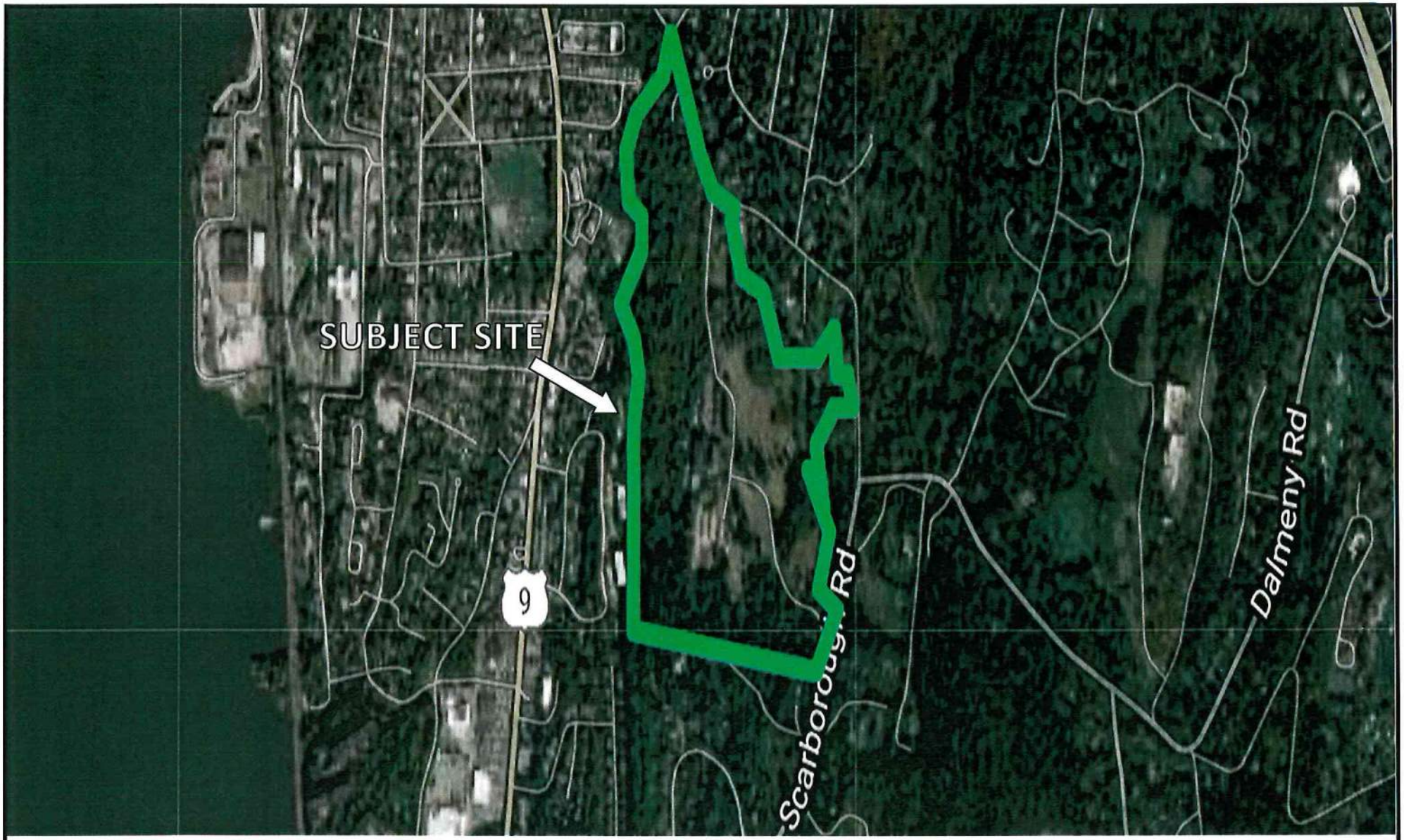
ENVIRONMENTAL AFFILIATES INC.

345 Scarborough Rd
Briarcliff Manor, NY 10510

SITE LOCATION MAP

STREET VIEW

Project #**223152**



ENVIRONMENTAL AFFILIATES INC.

345 Scarborough Road
Briarcliff Manor, NY 10510

SITE PLAN

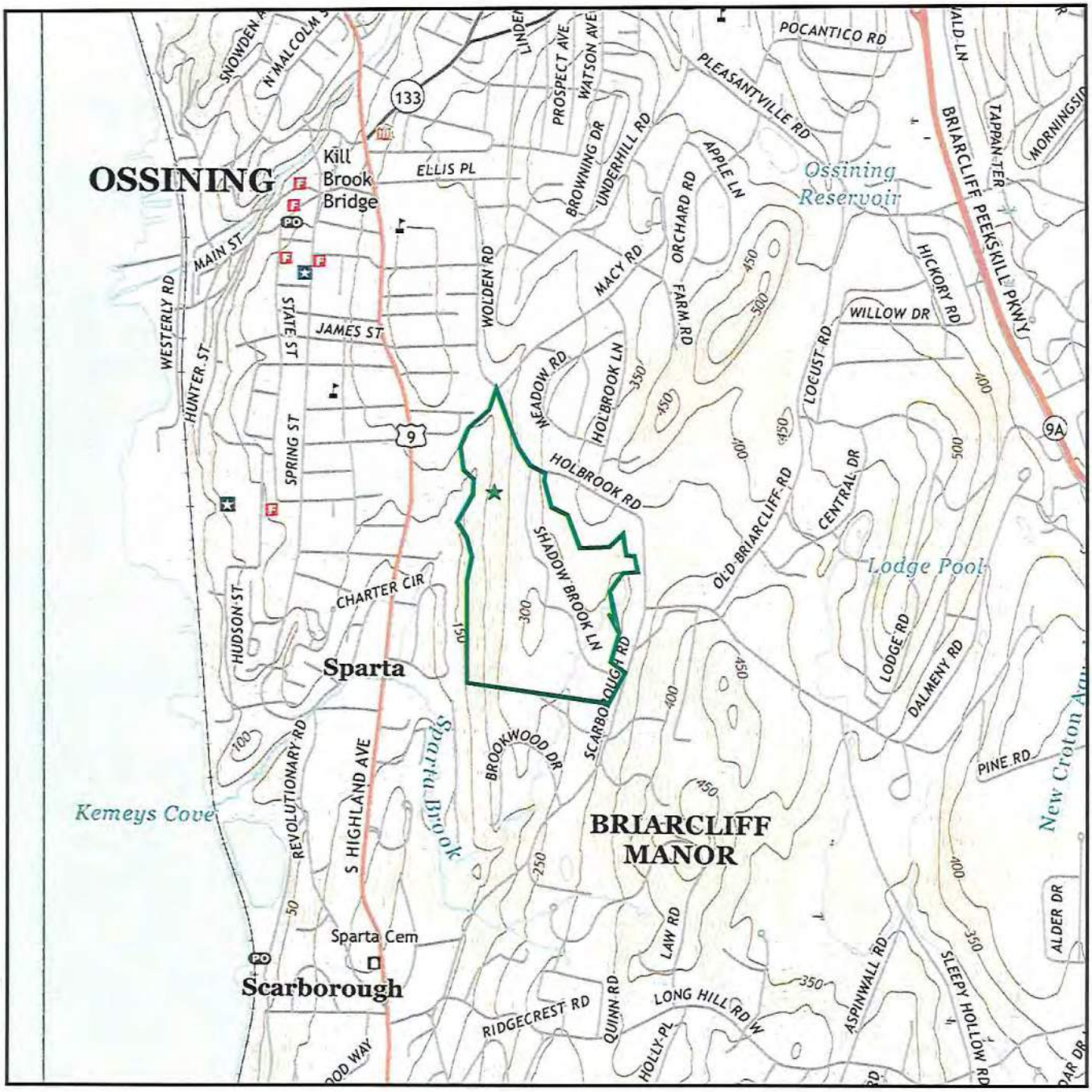
AERIAL VIEW

Project # 223152

Site location Map

Topo: 0.75 Mile Radius

345 SCARBOROUGH ROAD BRIARCLIFF MANOR, NY 10510



Map Image Position: TP
Map Reference Code & Name: 14142193 Ossining
Map State(s): NY
Version Date: 2019
Map Image Position: NW
Map Reference Code & Name: 14123661 Haverstraw
Map State(s): NY
Version Date: 2019

SECTION

H

PERSONNEL

ENVIAFF-01 ASINCLAIR

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/3/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
MJD3 Associates LLC 7-11 Suffern Place Suffern, NY 10901	PHONE (A/C, No, Ext): (845) 533-2250	FAX (A/C, No):
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Westchester Surplus Lines Insurance Company	10172
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Environmental Affiliates Inc
3 Lodi Lane
Monsey, NY 10952

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 2,000,000
	[ ] CLAIMS-MADE [X] OCCUR			G27959118 004	3/3/2021	3/3/2023	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 50,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY [ ] PRO-JECT [ ] LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB [ ] OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB [ ] CLAIMS-MADE						AGGREGATE	$
	DED [ ] RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						[ ] PER STATUTE [ ] OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] (Mandatory in NH)	N / A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Pollution Liability			G27959118 004	3/3/2021	3/3/2023	Limit	2,000,000
A	Professional Liab			G27959118 004	3/3/2021	3/3/2023	Limit	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Proof of Insurance

CERTIFICATE HOLDER

EVIDENCE OF INSURANCE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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ENVIRONMENTAL AFFILIATES INC.

THREE LODI LANE
MONSEY, NY 10952
PH: 845-354-7071
PH: 845-323-5008
FAX: 845-362-5130
Email: alex@enafco.com

Environmental Affiliates Inc. is proud to offer its clients a corporate structure, which represents multi-disciplinary and environmental backgrounds. Below please find highlights of our key personnel:

Alexander Friedman, EP – ENVIRONMENTAL PROFESSIONAL
CHIEF EXECUTIVE OFFICER

LICENSED NYS ASBESTOS INSPECTOR
EPA-AHERA/ASHARA UNDER 40 CFR 763 - ASBESTOS MANAGEMENT PLANNER
CERTIFIED MOLD INSPECTOR – CERTIFIED MOLD SPECIALIST
CERTIFIED ENVIRONMENTAL CONSULTANT

Sylvia Friedman – DIRECTOR OF OPERATIONS
CHIEF OPERATING OFFICER

Sidney Friedman, Esq. – DIRECTOR OF COMPLIANCE

MEMBER OF THE NEW YORK STATE BAR

Harry H. Elias, P.E. – CHMM

PROFESSIONAL ENGINEER
CERTIFIED HAZARDOUS MATERIAL MANAGER

Joseph DeVita – NYS LICENSED REGISTERED ARCHITECT

CERTIFIED BUILDING INSPECTOR
MEMBER ASTM COMMITTEE E-50

Joseph Frank, DIRECTOR OF IT
CHIEF TECHNOLOGY OFFICER
CHIEF INFORMATION OFFICER

ENVIRONMENTAL AFFILIATES, INC.
THREE LODI LANE
MONSEY, NY 10952
PHONE: 845-354-7071
PHONE: 845-323-5008
FAX: 845-362-5130
Email: alex@enafco.com

ENVIRONMENTAL AFFILIATES INC.

Alexander Friedman, EP

Environmental Professional

2003:

Alex Friedman, Director of Operations, established Environmental Affiliates Inc for the purpose of providing commercial and residential environmental assessments and consulting for banks, mortgage companies, attorneys, as well as the private sector.

2003-Present:

Over 3,500 Phase I Site Assessments and 500 Asbestos Surveys inspected and successfully completed by Alex Friedman in New York, New Jersey, Pennsylvania, and Connecticut. Current clients represent the development, insurance, banking, mortgage banking, real estate advisory, and realty communities. These environmental assessments include on site property evaluations and comprehensive reviews of regulatory data and public records to identify environmental concerns. Alex Friedman's extensive formal training combined with his seasoned background, professional certifications, and his years of industry experience provide for diversified environmental services. The success of EAI can be attributed to the consistency, dedication, and quality of service provided.

Areas of Expertise:

- Phase I Site Property Environmental Assessments as per ASTM E 1527-13
  ASTM E 1528-06 (Transaction Screen Process)

- Visual assessments for the presence of mold, conditions conducive to mold, and evidence of moisture in readily accessible interior areas of the subject site.
- Visual assessments for the presence of Asbestos Containing Material (ACM):
    - Asbestos Surveys, Bulk Sampling, and Laboratory analysis New York State
    - Guidance for controlling ACM in buildings
    - Operations and Maintenance Plans (O&Ms)
- Visual assessments regarding Lead Based Paint (LBP) hazards:
    - Operations and Maintenance Plans (O&Ms)

Education:

Bachelor of Science – Interdisciplinary Studies - Environmental Science

Empire College – State University of New York

Licenses:

Inspector, New York State Asbestos Certificate #04-08983

EPA-AHERA/ASHARA – 40 CFR 763 – Certificate of Completion Asbestos Safety Training

Asbestos Handling License – NYS Department of Labor #29455

Asbestos Management Planner- EPA-AHERA/ASHARA -40 CFR 763

Certifications & Affiliations:

EAA Certified Environmental Inspector #41277- CEI

Certified Environmental Consultant-CEC

Certified Mold Inspector-CMI

Certified Mold Specialist-CMS

Certification in Electric and Magnetic Fields

Lead Awareness Certificate

Phase II Remedial Investigative Studies

Sampling Protocols for Phase II Assessments

US Dept of Homeland Security FEMA – Hazardous Materials Prevention:
#IS-00340
#IS-00005.A

Environmental Assessment Association-EAA

Appendix N
Site Soils

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73° 51' 36" W
73° 50' 55" W
41° 9' 20" N
41° 8' 39" N
595700
595800
595900
596000
596100
596200
596300
596400
596500
596600
4556600
4556500
4556400
4556300
4556200
4556100
4556000
4555900
4555800
4555700
4555600
4555500
4555400
UwB
CsD
ChE
PnB
PnB
PnD
WdB
PnC
WdB
W
Ub
WdB
RdB
WdB
PnB
PnC
PnC
Martin Rd
Meadow Rd
Argyle Pl
Holbrook Rd
Charter Cir
Scarborough Rd
Sparta Brook
9
Map Scale: 1:6,230 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 50 100 200 300
Feet
0 300 600 1200 1800
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 17, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChE	Charlton loam, 25 to 35 percent slopes	3.0	3.2%
CsD	Chatfield-Charlton complex, 15 to 35 percent slopes, very rocky	5.3	5.7%
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	10.0	10.7%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	21.8	23.2%
PnD	Paxton fine sandy loam, 15 to 25 percent slopes	28.5	30.3%
RdB	Ridgebury complex, 3 to 8 percent slopes	9.6	10.2%
Ub	Udorthents, smoothed	7.1	7.6%
UwB	Urban land-Woodbridge complex, 3 to 8 percent slopes	0.0	0.0%
W	Water	0.1	0.1%
WdB	Woodbridge loam, 3 to 8 percent slopes	8.4	8.9%
Totals for Area of Interest		**93.8**	**100.0%**

Appendix O
Wetlands

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Appendix O-1
Map with Wetland Flagging

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'STING CONDITIO

EXISTING SLOPE ANALYSIS TABLE WESTCHESTER GIS					
CATAGORY	MINIMUM SLOPE	MAXIMUM SLOPE	AREA (S.F.)	AREA (AC.)	COLOR
OVERALL	25.00%	VERTICAL	538,625	12.37	
ZONE R20B	25.00%	VERTICAL	69,807	1.60	
ZONE R60A	25.00%	VERTICAL	217,713	5.00	
ZONE B	25.00%	VERTICAL	251,105	5.77	

*SECTION 220-15 (C) OF THE VILLAGE OF BRIARCLIFF MANOR ZONING CODE DEFINES STEEP SLOPES BASED ON THE WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS MUNICIPAL TAX PARCEL VIEWER.

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

No.	Revision	Date	By
1.	FINAL SUBMISSION	06/10/2018	DK

Previous Editions Obsolete

APPLICANT/OWNER:
RPA ASSOCIATES, LLC
ONE EXECUTIVE BOULEVARD
YONKERS, NY

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

WESCHESTER GIS SLOPE MAP

PATRIOT BLUFF LUXURY APARTMENTS
EPIPHANY DRIVE
NEW WINDSOR, NY

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Drawn:	MT
Approved:	AN
Scale:	1" = 80'
Date:	06/08/2018
Project No:	16031
FILE#:	C-010B [SPL #1 02] [3]
EXISTING.dwg	
Drawing No:	C-010B

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NOT FOR CONSTRUCTION

Appendix O-2
Environmental Resource Mapper

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Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18	**Easting:**	596326.351	**Northing:**	4555709.703
Longitude/Latitude	**Longitude:**	-73.852	**Latitude:**	41.147

County: Westchester
Village: Briarcliff Manor
USGS Quad: OSSINING

DEC Region

Region 3:
(Lower Hudson Valley) Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester counties. For more information visit **http://www.dec.ny.gov/about/607.html**.

Waterbody Classifications for Rivers/Streams

Regulation: 864-57
Standard: SC / C
Classification: SC / C

National Wetands Inventory

Attribute: R3UBH
Type: Riverine
Acres: 14.769926731757256

For more information about the National Wetands Inventory wetlands visit **http://www.fws.gov/wetlands/**

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

Appendix O-3
USACE Federal Wetlands Notification Letter

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79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

U.S. Army Corps of Engineers New York District
26 Federal Plaza, Room 17-302
New York, NY 10278-0090
Tel: 917-790-8511
LRB-RegInquiries@usace.army.mil
LRB.Regulatory.PermitCompliance@usace.army.mil

March 28, 2022

To the U.S. Army Corps of Engineers New York District,

I am writing to you on behalf of YSG Solar Development Company, LLC regarding the proposed development of a Solar PV facility located in the Village of Briarcliff Manor in Westchester County, New York. The overall site is identified on the Briarcliff Manor tax map as parcel number 97.16-1-1 with a total acreage of 78.24 Acres. We are contacting USACE to seek confirmation that the project will not impose on any state or federal wetlands at the site. Below is a description of the project for your review.

The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW ground mounted solar PV systems covering approximately +/- 40 acres of the parcel with a maximum height above grade 8.5 ft.

The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

The development will provide renewable energy access via community solar. I have enclosed a copy of a preliminary site map and SEQR long form for your review. Thank you for your time and we look forward to hearing back from you with your determination.

Sincerely,

Nadia Jagdat

Nadia Jagdat
nadia.jagdat@YSGSolar.com
YSG Solar Development Company, LLC

Appendix O-4
USACE Federal Wetlands Response

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DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278-0090

Regulatory Branch **May 4, 2022**

SUBJECT: Permit Application Number NAN-2022-00443-WRY
by YSG Solar Development Company, LLC

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016

Dear Ms. Jagdat:

On April 11, 2022, the New York District, U.S. Army Corps of Engineers (Corps), received a request for Department of the Army authorization for the installation of two 5MW ground mounted solar systems in the Saw Mill River watershed, in the Town of Ossining, Westchester County, New York.

Our review indicates that since the proposed work does not appear to include dredging or construction activities in or over any navigable waters of the United States, the placement of any dredged or fill material in any waters of the United States (including coastal or inland wetlands) or the accomplishment of any work affecting the course, location, condition or capacity of such areas, a Department of the Army permit, in accordance with 33 CFR 320-330, will not be required provided the proposed work is executed in accordance with the referenced material.

Care should be taken so that any fill or construction materials, including debris, do not enter the waterway to become a drift or pollution hazard. A No Permit Required (NPR) determination by the Corps:

- Does not obviate the requirement to obtain any other Federal, State, or local permits which may be necessary for your project;

- Does not constitute a federal evaluation of possible impacts to species protected under the Endangered Species Act. Projects that have the potential to impact federally listed species should contact the U.S. Fish and Wildlife Service; and,

- Does not constitute a federal evaluation of possible impacts to historic resources protected under Section 106 of the Natural Historic Preservation Act. Projects that have the potential to impact historic sites should contact the State Historic Preservation Officer in New York.

This NPR determination neither addresses nor includes any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such.

In order for us to better serve you, please complete our Customer Service Survey located at https://www.nan.usace.army.mil/Missions/Regulatory/Customer-Survey/.

If any questions should arise concerning this matter, please contact Alexandra Ryan, of my staff, at alexandra.ryan@usace.army.mil or at (917) 790-8518.

Sincerely,

Rosita Miranda
Chief, Western Section

Enclosures

'STING CONDITIO

EXISTING SLOPE ANALYSIS TABLE WESTCHESTER GIS					
CATAGORY	MINIMUM SLOPE	MAXIMUM SLOPE	AREA (S.F.)	AREA (AC.)	COLOR
OVERALL	25.00%	VERTICAL	538,625	12.37	
ZONE R20B	25.00%	VERTICAL	69,807	1.60	
ZONE R60A	25.00%	VERTICAL	217,713	5.00	
ZONE B	25.00%	VERTICAL	251,105	5.77	

*SECTION 220-15 (C) OF THE VILLAGE OF BRIARCLIFF MANOR ZONING CODE DEFINES STEEP SLOPES BASED ON THE WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS MUNICIPAL TAX PARCEL VIEWER.

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

No.	Revision	Date	By
1.	FINAL SUBMISSION	06/10/2018	DK

Previous Editions Obsolete

APPLICANT/OWNER:
RPA ASSOCIATES, LLC
ONE EXECUTIVE BOULEVARD
YONKERS, NY

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

WESCHESTER GIS SLOPE MAP

PATRIOT BLUFF LUXURY APARTMENTS
EPIPHANY DRIVE
NEW WINDSOR, NY

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Drawn:	MT
Approved:	AN
Scale:	1" = 80'
Date:	06/08/2018
Project No:	16031
FILE#:	C-010B [SPL #1 02] [3]
EXISTING.dwg	
Drawing No:	C-010B

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NOT FOR CONSTRUCTION

Appendix O-5
NYSDEC Wetlands Notification Letter

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79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

NYSDEC Region 3 Office
ATTN: Regional Permit Administrator - John Petronella
21 South Putt Corners Road
New Paltz, NY 12561-1620
Phone: 845-256-3054
Email: dep.r3@dec.ny.gov

March 28, 2022

To the Region 3 NYS DEC Regional Permit Administrator,

I am writing to you on behalf of YSG Solar Development Company, LLC regarding the proposed development of a Solar PV facility located in the Village of Briarcliff Manor in Westchester County, New York. The overall site is identified on the Briarcliff Manor tax map as parcel number 97.16-1-1 with a total acreage of 78.24 Acres. We are contacting the NYS DEC to seek confirmation that the project will not impose on any state wetlands. Below is a description of the project for your review.

The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately 5.6 acres of the parcel; and the installation of two 5MW ground mounted solar PV systems covering approximately +/- 40 acres of the parcel with a maximum height above grade 8.5 ft.

The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads, and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on-site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

The development will provide renewable energy access via community solar. I have enclosed a copy of a preliminary site map and SEQR long form for your review. Thank you for your time and we look forward to hearing back from you with your determination.

Sincerely,

Nadia Jagdat

Nadia Jagdat
YSG Solar Development Company, LLC
nadia.jagdat@YSGSolar.com

Appendix O-6
NYSDEC Response

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YSG SOLAR

David Magid <dmg@ysgsolar.com>

RE: YSG Solar_Briarcliff Solar

1 message

dec.sm.DEP.R3 <DEP.R3@dec.ny.gov> Mon, Mar 28, 2022 at 4:28 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Nadia Jagdat,

As stated in the Full EAF, there are no DEC-mapped mapped wetlands on the site. There may be wetlands subject to federal regulation. You would need to contact the Army Corps of Engineers for a determination on the need for federal wetlands. Please see the attached general guidance on DEC regulations, including Water Quality Certifications for project requiring a federal permit.

Rebecca Crist

Deputy Permit Administrator, Division of Environmental Permits

Pronouns: she/her/hers

New York State Department of Environmental Conservation

21 South Putt Corners Road, New Paltz, NY 12561

P: (845) 256-3014 | F: (845) 255-4659 | rebecca.crist@dec.ny.gov

www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Monday, March 28, 2022 3:08 PM
To: dec.sm.DEP.R3 <DEP.R3@dec.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
Subject: YSG Solar_Briarcliff Solar

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good afternoon.

I am reaching out to you from YSG Solar Development Company, LLC in pursuance of a no impact determination for one of our proposed Solar PV developments in Briarcliff Manor, NY. Please find attached a copy of the notification letter, Long Form SEQR and preliminary site map. We look forward to your response. Thank you.

Best regards,

Nadia Jagdat

Development Associate

YSG Solar

(ph)

212-389-9215

(fx) 877

-

255

-

5835

This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

DEC Division of Environmental Permits Jurisdictional Guidance.pdf
253K

Appendix P
Stormwater Pollution Prevention Plan

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Stormwater Pollution Prevention Plan

Prepared for:
YSG Solar
79 Madison Avenue, 8th Floor
New York, New York 10016

Submitted by:
LaBella Associates
105 N. Tioga Street, Suite 200
Ithaca, New York 14850
(607) 319-4136

LaBella
Powered by partnership.

Briarcliff Manor Solar

Village of Briarcliff Manor, Westchester County, New York

DATE: MAY 2022
LAST REVISED: MAY 2022
PROJECT NO. 2221884

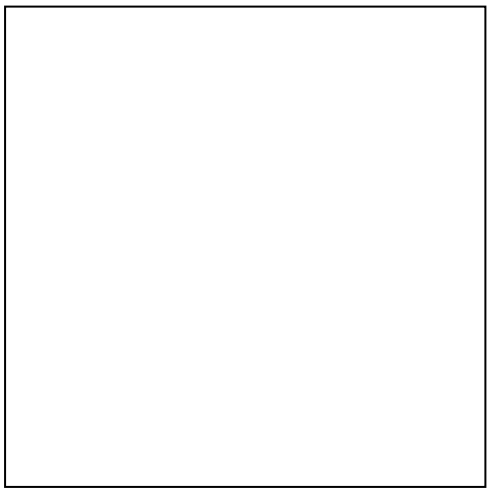
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PREPARER OF THE SWPPP

"I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Name and Title[1]: Michael Mishook, PE

Date: May 10, 2022



[1] *This is a signature of a New York State licensed Professional Engineer employed by LaBella Associates that is duly authorized to sign and seal Stormwater Pollution Prevention Plans (SWPPPs), NOIs, and NOTs prepared under their direct supervision. Refer to Appendix B for the SWPPP Preparer Certification Form, and Appendix I for the LaBella Certifying Professionals Letter.*

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Appendix B: Forms

- Notice of Intent (NOI)
- MS4 SWPPP Acceptance Form
- SWPPP Preparer Certification Form
- Owner/Operator Certification Form
- Contractor and Subcontractor Certification Forms
- Notice of Termination (NOT)

Appendix C: Project Evaluation and Design Calculations

Appendix D: Pre-Development Stormwater Modeling

Appendix E: Post-Development Stormwater Modeling

Appendix F: SWPPP Inspection Report (Sample Form)

Appendix G: Post-Construction Inspections and Maintenance

Appendix H: NYSDEC “Deep-Ripping and Decompaction,” April 2008

Appendix I: LaBella Certifying Professionals Letter

Appendix J: NYSDEC SPDES General Permit GP-0-20-001

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1.0 EXECUTIVE SUMMARY

This Stormwater Pollution Prevention Plan (SWPPP) has been prepared for major activities associated with construction of Briarcliff Manor Solar in the Village of Briarcliff Manor. This SWPPP includes the elements necessary to comply with the national baseline general permit for construction activities enacted by the U.S. Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDES) program and all local governing agency requirements. This SWPPP must be executed and permit coverage must be obtained prior to the commencement of construction activity.

This SWPPP has been developed in accordance with the "New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity," Permit No. GP-0-20-001, effective January 29, 2020 through January 28, 2025. The SWPPP and accompanying plans identify and detail stormwater management, pollution prevention, and erosion and sediment control measures necessary during and following completion of construction.

This SWPPP and the accompanying plans entitled "Briarcliff Manor Solar Plan Set" have been submitted as a set. These engineering drawings are considered an integral part of this SWPPP. Therefore, this SWPPP is not considered complete without them. References made herein to "the plans" or to a specific "sheet" refer to these drawings.

This report considers the impacts associated with the intended development with the purpose of:

1. Maintaining existing drainage patterns as much as possible while continuing the conveyance of upland watershed runoff;
2. Controlling increases in the rate of stormwater runoff resulting from the proposed development so as not to adversely alter downstream conditions; and
3. Mitigating potential stormwater quality impacts and preventing soil erosion and sedimentation resulting from stormwater runoff generated both during and after construction.

The analysis and design completed and documented in this report is intended to be part of the application made for a solar redevelopment project with no increase in impervious area completed on behalf of the Owner/Operator.

1.1 Project Description

YSG Solar is proposing redevelopment project with no increase in impervious area, to include: removal of the existing building structures, athletic courts, concrete sidewalks, and the majority of the existing asphalt pavement and installation of two (2) 5-MW AC solar arrays with tracker solar panels, fencing, total of four (4) concrete equipment pads, and related electrical equipment. The existing paved site access road will be utilized for continued site access. The project will disturb greater than 1-acre of land. A Site Location Map has been provided in Appendix A, as Figure A-1.

This type of project is included in Table 2 of Appendix B of GP-0-20-001; and the project site is not located in one of the watersheds listed in Appendix C of GP-0-20-001. Therefore, this SWPPP includes post-construction stormwater management practices, as well as erosion and sediment controls.

This project is located within the Village Of Briarcliff Manor regulated, traditional land use control Municipal Separate Stormwater Sewer System (MS4). Therefore, an MS4 SWPPP Acceptance Form is required to accompany NOIs submitted to the NYSDEC.

Runoff from the project site will discharge to the Sparta Brook on the east side of the project and an unnamed tributary of Sparta Brook on the west side of the project, which is not included in the list of Section 303(d) water bodies included in Appendix E of GP-0-20-001.

Project construction activities will consist primarily of site grading, and the installation of storm drainage infrastructure necessary to support the proposed redevelopment project with no increase in impervious area. Construction phase pollutant sources anticipated at the site are disturbed (exposed) soil, vehicle fuels and lubricants, and building materials. Without adequate control there is the potential for each type of pollutant to be transported by stormwater.

1.2 Stormwater Pollution Controls

The stormwater pollution controls outlined herein have been designed and evaluated in accordance with the following standards and guidelines:

- New York State Stormwater Management Design Manual, dated January 2015 (Design Manual).
- New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016 (SSESC).

Stormwater quality will be enhanced through the implementation of temporary and permanent erosion and sediment control measures, the proposed stormwater management practices, and other construction-phase pollution controls outlined herein.

The proposed stormwater management approach consisting of on-site stormwater management practices will adequately collect, treat, and convey the stormwater runoff.

Grass filter strips will be used to manage and treat stormwater runoff generated by the proposed redevelopment project with no increase in impervious area.

Pre- and post-development surface runoff rates have been evaluated for the 1-, 10-, and 100-year 24-hour storm events. Comparison of pre- and post-development watershed conditions demonstrates that the peak rate of runoff from the project site will not be increased.

2.0 SITE CHARACTERISTICS

2.1 Land Use and Topography

The project site is located within the Complementary Use Transition 1 (CT1) zoning district. Solar arrays are subject to a special use permit within this district.

The overall site is slightly sloping, with slopes ranging from 1 to 26 percent. Site elevations range from approximately 118 feet above mean sea level (MSL) to 364 feet MSL. The central portion of the site is the high point of the site, with the western edge of the site steeply sloping from east to west and the mid and eastern portions of the site slightly to moderately sloping from west to east.

2.2 Soils and Groundwater

The US Department of Agriculture (USDA) Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/) was used to obtain surficial soil conditions for the study area, as follows:

Table 1: USDA Soil Data

Map Symbol	Description	Hydrologic Soil Group	Erosion Factor K	Depth to Water Table (feet)
ChE	Charlton loam, 25 to 35 percent slopes	B	0.32	>5.0
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	C	0.28	1.5-3.5
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C	0.28	1.5-3.5
PnD	Paxton fine sandy loam, 15 to 25 percent slopes	C	0.28	1.5-3.5
RdB	Ridgebury complex, 3 to 8 percent slopes	D		0-0.5
Ub	Udorthents, smoothed		0.20	1.5-4.0
Uf	Urban land			
W	Water			
WdB	Woodbridge loam, 3 to 8 percent slopes	C/D	0.32	1.5-3.5

Upon review of the soil data presented in Table 1, the project site contains soils with a soil slope phase of D with a map unit name that inclusive of slopes greater than 25%, and contains soils with a soil slope phase of E or F.

The project site is composed of HSG B soils, HSG C soils, and HSG D soils, as shown in the table below. For the purposes of this report, HSG C/D soils were modeled as HSG D soils to reflect the undrained condition.

Table 2: Project Site HSG Data

HSG A	HSG B	HSG C	HSG D
0%	1.0%	61.2%	37.7

The Soil Conservation Service defines the hydrologic soil groups as follows:

- Type B Soils: Soils having a moderate infiltration rate when thoroughly wet and consisting mainly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately course textures. These soils have a moderate rate of water transmission.
- Type C Soils: Soils having a low infiltration rate when thoroughly wet and consisting chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine-to-fine texture. These soils have a low rate of water transmission.
- Type D Soils: Soils having a very low infiltration rate and high runoff potential when thoroughly wet. These soils consist chiefly of clays that have high shrink-swell potential, soils that have a permanent high water table, soils that have a clay pan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very low rate of water transmission.

The soils map for the study area is presented in Appendix A, as Figure A-2.

2.3 Watershed Designation

The project site is not located in a restricted watershed identified in Appendix C of GP-0-20-001.

2.4 Receiving Water Bodies

The nearest natural classified water body into which runoff from the project site will discharge is the Sparta Brook on the east side of the project and an unnamed tributary of Sparta Brook on the west side of the project. The Sparta Brook on the east side of the project and an unnamed tributary of Sparta Brook on the west side of the project is classified by NYSDEC as a Class SC/C water body, and is not included in the Section 303(d) list of impaired waters found in Appendix E of GP-0-20-001.

2.5 Aquifer Designation

The project site is not located over a US EPA designated Sole Source aquifer; nor is it located over a Primary or Principal aquifer listed in the NYSDEC Technical and Operational Guidance Series (TOGS) 2.1.3 (1980).

2.6 Wetlands

Wetlands depicted on the accompanying plan set were delineated by a separate firm in 2021. The wetland boundary was surveyed by Control Point Associates, Inc., PC in 2022 and presented on the associated plan set. These wetlands are not NYSDEC or Federally Regulated Wetlands.

2.7 Flood Plains

According to the National Flood Insurance Program Flood Insurance Rate Map (FIRM), Village of Briarcliff Manor, New York, Community Panel Number 36119C0138F, the project site lies within Flood Zone X, areas determined to be outside 500-year floodplain The FEMA Flood Map has been provided in Appendix A, as Figure A-5.

2.8 Listed, Endangered, or Threatened Species

A search was performed on the NYSDEC Environmental Resource Mapper on May 10, 2022, and determined that the project site does not contain any threatened or endangered species, or critical habitat. An Environmental Resource Map has been provided in Appendix A, as Figure A-4.

2.9 Historic Places

A consultation submission was sent to the New York State Office of Parks, Recreation, and Historic Preservation through the New York State Cultural Resource Information System (CRIS) database and received a response letter dated May 5, 2022. The existing facility on the parcel is eligible to be listed on the State and National Registers of Historic Places as well as near the Old Croton Aqueduct which is a National Historic Landmark. A meeting with a NYSOPRHP representative was conducted on May 9, 2022 to discuss the feasibility of demolishing the existing structures and the proximity to the Old Croton

Aqueduct. The Old Croton Aqueduct is over 200 feet from the project site and the solar array will not be visible. The NYSOPRHP response letter is presented in Appendix A, as Figure A-3.

As such, NYSOPRHP coordination has been initiated and a structural analysis of the facility will be conducted as soon as possible by a professional structural engineer to detail the structures' poor condition. Additional correspondence and documentation will be provided in Appendix A as it is generated.

2.10 Rainfall Data

Rainfall data utilized in the modeling and analysis was obtained from the Cornell University online Extreme Precipitation in New York & New England website (http://precip.eas.cornell.edu/). The standard SCS/NRCS rainfall distributions were applied to evaluate the pre- and post-development stormwater runoff characteristics. Rainfall data specific to the portion of Westchester County under consideration, for various 24-hour storm events, is presented in the following Table:

Table 3: Rainfall Data

Storm Event Return Period	24-Hour Rainfall (inches)
1-year	2.78
10-year	5.13
100-year	9.26

2.11 Pre-development Watershed Conditions

The pre-development project site is covered predominantly by established woods, lawn and meadow, and an abandoned research facility and associated parking lots. Analysis of pre-development conditions considered existing drainage patterns, soil types, ground cover, and topography. The Pre-Development Watershed Delineation Map has been provided in Appendix A, as Figure A-6.

The results of the computer modeling used to analyze the overall watershed under pre-development conditions are presented in Appendix D. A summary of the pre-development watershed runoff rates at each design point is presented in Table 5.

2.12 Post-development Watershed Conditions

The post-development project site is covered predominantly by woods and meadow grass under and around the proposed solar arrays. The analysis of post-development conditions considered existing drainage patterns, soil types, ground cover to remain, planned site development, site grading and, stormwater management facilities proposed as part of site improvements. The Post-Development Watershed Delineation Map has been provided in Appendix A, as Figure A-7.

The results of the computer modeling used to analyze the overall watershed under post-development conditions are presented in Appendix E. A summary of the post-development watershed runoff rates at each design point is presented in Table 5.

Due to the decrease in impervious cover in the post-development condition, peak discharge rates from the project site are also decreased. Therefore, stormwater management practices designed to attenuate

stormwater runoff are not required for this project. Grass filter strips per the NYSDEC Stormwater Management Design Manual will be installed around the new concrete equipment pads for stormwater runoff management.

2.13 Description of Design Points

The study area consists of an overall watershed that encompasses approximately 88 acres, including the 47 acre project site and 49 acre area of disturbance. The overall watershed was broken down into smaller watersheds, or subcatchments, to allow for analysis of runoff conditions at several locations throughout the study area. Each of these locations was defined as a Design Point (DP) in order to compare the effects resulting from stormwater management facilities proposed as part of the project. Descriptions of each of the selected design points are provided below.

- Design Point 1: Off-site discharge to ditch running parallel to the Old Croton Aqueduct trail from the northwest portion of the site. This area of the site slopes uniformly east to west.
- Design Point 2: Off-site discharge to the west of the site down the wooded slope from the remaining western portion of the site not captured by Design Point 1. This area of the site slopes uniformly east to west.
- Design Point 3: Off-site discharge to the Sparta Brook. This encompasses the eastern portion of the site which slopes from the west to east from the western half and the east to west from the eastern half towards Sparta Brook.

3.0 STORMWATER MANAGEMENT PLANNING

Chapter 3 of the Design Manual outlines a six-step planning process for site planning and selection of stormwater management practices that must be implemented for both new development and redevelopment projects. This process is intended to develop a design that maintains pre-construction hydrologic conditions through the application of environmentally sound development principles, as well as treatment and control of runoff discharges from the site. The following sections outline the step-by-step process and how it has been applied to this project.

The goals of this Stormwater Management Plan are to analyze the peak rate of runoff under pre- and post-development conditions, to maintain the pre-development rate of runoff in order to minimize impacts to adjacent or downstream properties, and to minimize the impact to the quality of runoff exiting the site.

The Design Manual provides both water quality and water quantity objectives to be met by projects requiring a “Full SWPPP”. These objectives will be met by applying stormwater control practices to limit peak runoff rates and improve the quality of runoff leaving the developed site.

3.1 STEP 1 – Site Planning

During the Site Planning process, the project site is evaluated for implementation of the green infrastructure planning measures identified in Table 3.1 of the Design Manual, in order to preserve natural resources and reduce impervious cover. Table A of Appendix C provides a description of each green infrastructure planning measure, along with a project specific evaluation.

3.2 STEP 2 – Calculate Water Quality Treatment Volume (WQv)

Stormwater runoff from impervious surfaces is recognized as a significant contributor of pollution that can adversely affect the quality of receiving water bodies. Therefore, treatment of stormwater runoff is important since most runoff related water quality contaminants are transported from land, particularly the impervious surfaces, during the initial stages of storm events.

3.2.1 NYSDEC Requirements for Water Quality Volume

The Design Manual requires that water quality treatment be provided for the initial flush of runoff from every storm. The NYSDEC refers to the amount of runoff to be treated as the "Water Quality Volume" (WQv). Section 4.2 of the Design Manual defines the Water Quality Volume as follows:

$$WQv = \frac{[(P)(R_v)(A)]}{12}$$

Where: P = 90% Rainfall Event Number
R_v = 0.05 + 0.009 (I)
I = Impervious Cover (Percent)
A = Contributing Area in Acres

This definition ensures that, all other things being equal, the Water Quality Volume will increase along with the impervious cover percentage.

3.2.2 Methodology for Redevelopment Projects

Chapter 9 of the Design Manual outlines alternative WQv treatment objectives for redevelopment projects.

According to Section 9.2.1.B.I, if redevelopment activities result in a reduction of existing impervious cover by a minimum of 25% of the total disturbed, impervious area, then the stormwater criteria for water quality has been achieved. This project is proposing an 63% reduction of existing impervious cover; thereby, the water quality objective has been met.

3.3 STEP 3 – Apply RR Techniques and Standard SMPs with RRv Capacity to Reduce Total WQv

Land use change and development in the watershed increases the volume of runoff. As such, reductions in the amount of runoff from new development, accomplished through the implementation of a stormwater management plan for the site, will play an important role in the success or failure of the watershed-wide stormwater management plan. Runoff reduction techniques can be applied to manage, reduce, and treat stormwater, while maintaining and restoring natural hydrology through infiltration, evapo-transpiration, and the capture and reuse of stormwater. Volume reduction techniques by themselves typically are not sufficient to provide adequate attenuation of stormwater runoff, but they can decrease the size of the peak runoff rate reduction facilities.

3.3.1 NYSDEC Requirements for Redevelopment

Section 3.2 of the Design Manual indicates, "Although encouraged, meeting the RRv criteria is not required for redevelopment activities that meet the criteria in Chapter 9 of this manual."

3.4 STEP 4 – Calculate the Minimum RRv Required

As previously discussed, meeting the RRv criteria is not required for redevelopment activities with no increase in impervious, that meet the criteria in Chapter 9 of the Design Manual.

3.5 STEP 5 – Apply Standard SMPs to Address Remaining Water Quality Volume

As previously discussed, the water quality objective is being met through impervious cover reduction by greater than 25%. As such, no standard SMPs are required.

3.6 STEP 6 - Apply Volume and Peak Rate Control

This report presents the pre-development and post-development features and conditions associated with the rate of surface water runoff within the study area. For both cases, the drainage patterns, drainage structures, soil types, and ground cover types are considered in this study.

3.6.1 NYSDEC Requirements for Redevelopment

Chapter 9 of the Design Manual provides alternatives to the above quantity criteria, which may be applied to redevelopment projects. As indicated in Section 9.3.2, if redevelopment results in no increase in impervious area or changes to hydrology that increase the discharge rate from the site, then the 10-year and 100-year criteria for quantity control do not apply. In addition, if the hydraulic study shows that the post-construction 1-year 24-hr discharge rate and velocity are less than or equal to the pre-construction discharge rate, then providing 24-hr detention of the 1-year storm to meet channel protection criteria is not required.

The project proposes an 63% decrease in impervious area and will not result in changes to hydrology that increase the discharge rate from the site. Additionally, based upon the hydrologic analysis performed, the discharge rate from the site has been reduced from pre- to post-development conditions for the 1-year storm event. Therefore, the stormwater quantity criteria have been met and stormwater quantity control practices have not been provided for this project. The following Section describes the methodology behind this hydrologic analysis.

3.6.2 Methodology

In order to demonstrate that the NYSDEC detention requirements are being met, the Design Manual requires that a hydrologic and hydraulic analysis of the pre- and post-development conditions be performed using the Natural Resources Conservation Service Technical Release 20 (TR-20) and Technical Release 55 (TR-55) methodologies. HydroCAD, developed by HydroCAD Software Solutions LLC of Tamworth, New Hampshire, is a Computer-Aided-Design (CAD) program for analyzing the hydrologic and hydraulic characteristics of a given watershed and associated stormwater management facilities. HydroCAD uses the TR-20 algorithms and TR-55 methods to create and route runoff hydrographs.

HydroCAD has the capability of computing hydrographs (which represent discharge rates characteristic of specified watershed conditions, precipitation, and geologic factors) combining hydrographs and routing flows though pipes, streams and ponds. HydroCAD can also calculate the center of mass detention time for various hydraulic features. Documentation for HydroCAD can be found on their website: http://www.hydrocad.net/.

For this analysis, the watershed and drainage system was broken down into a network consisting of two types of components as described below:

1. Subcatchment: A relatively homogeneous area of land, which produces a volume and rate of runoff unique to that area.
2. Reach: Uniform streams, channels, or pipes that convey stormwater from one point to another.

Subcatchments and reaches are represented by hexagons and squares respectively, on the watershed routing diagrams provided with the computations included in Appendix D and Appendix E.

The analysis of hydrologic and hydraulic conditions and proposed stormwater management facilities, servicing the study area, was performed by dividing the tributary watershed into relatively homogeneous subcatchments. The separation of the watershed into subcatchments was dictated by watershed conditions, methods of collection, conveyance, and points of discharge. Watershed characteristics for each subcatchment were then assessed from United States Geological Service (USGS) 7.5-minute topographic maps, aerial photographs, a topographical survey, soil surveys, site investigations, and land use maps.

Proposed stormwater management practices were designed and evaluated in accordance with the Design Manual and local regulatory requirements. The hydrologic and hydraulic analysis considered the SCS Type III 24-hour storm events identified in the following Table.

Table 4: Design Events

Facility	24-hour Storm Event
Storm Sewer	10-year
Stormwater Management Practice(s)	1-year
	10-year
	100-year
Flood Conditions	100-year

3.6.3 Performance Summary

The CPv requirement does not apply as the reduction of the entire CPv is achieved by the reduction of impervious area and lack of change in site hydrology.

A comparison of the pre- and post-development watershed conditions was performed for all design points and storm events evaluated herein. For all design points and design storms, this comparison demonstrates that the peak rate of runoff will not be increased. Therefore, the project will not have a significant adverse impact on the adjacent or downstream properties or receiving water courses.

The results of the computer modeling used to analyze the pre- and post-development watersheds are presented in Appendix D and Appendix E, respectively. The following Table summarizes the results of this analysis.

Table 5: Summary of Pre- and Post-Development Peak Discharge Rates

Pre- vs. Post-Development Discharge Rate (cfs)				
Design Point (DP)	10-year 24-hour storm event		100-year 24-hour storm event	
	Pre	Post	Pre	Post
1	29.92	24.67	72.24	60.86
2	73.53	57.02	168.02	147.81
3	60.80	56.94	142.85	138.90
Total	164.25	138.63	383.11	347.57

4.0 CONSTRUCTION SEQUENCE

This project has not received written approval from NYSDEC or the Village of Briarcliff Manor allowing the disturbance of more than five acres of land at any one time. Therefore, if the Contractor's construction sequence requires the disturbance of more than five acres at any one time, written approval must be obtained from NYSDEC prior to disturbing more than five acres at once.

The "Erosion and Sediment Control Plan" in the accompanying drawings identifies the major construction activities that are the subject of this SWPPP. The order (or sequence) in which the major activities are expected to begin is presented on the accompanying drawings, though each activity will not necessarily be completed before the next begins. In addition, these activities could occur in a different order if necessary to maintain adequate erosion and sediment control. If this is the case, the contractor shall notify the Owner's/Operator's Engineer overseeing the implementation of the SWPPP.

The Contractor will be responsible for implementing the erosion and sediment control measures identified on the plans. The Contractor may designate these tasks to certain subcontractors as they see fit, but the ultimate responsibility for implementing these controls and ensuring their proper function remains with the Contractor.

Refer to the accompanying plans for details and specifications regarding the construction sequencing schedule.

5.0 CONSTRUCTION-PHASE POLLUTION CONTROL

The SWPPP and accompanying plans identify the temporary and permanent erosion and sediment control measures that have been incorporated into the design of this project. These measures will be implemented during construction, to minimize soil erosion and control sediment transport off-site, and after construction, to control the quality and quantity of stormwater runoff from the developed site.

Erosion control measures, designed to minimize soil loss, and sediment control measures, intended to retain eroded soil and prevent it from reaching water bodies or adjoining properties, have been developed in accordance with the following documents:

- NYSDEC SPDES General Permit for Stormwater Discharges From Construction Activity, Permit No. GP-0-20-001 (effective January 29, 2020 through January 28, 2025)
- New York State Standards and Specifications for Erosion and Sediment Control, NYSDEC (November 2016)

The SWPPP and accompanying plans outline the construction scheduling for implementing the erosion and sediment control measures. These documents include limitations on the duration of soil exposure, criteria and specifications for placement and installation of the erosion and sediment control measures, a maintenance schedule, and specifications for the implementation of erosion and sediment control practices and procedures.

Temporary and permanent erosion and sediment control measures that shall be applied during construction generally include:

1. Minimizing soil erosion and sedimentation by stabilization of disturbed areas and by removing sediment from construction site discharges.
2. Preservation of existing vegetation to the greatest extent practical. Following the completion of construction activities in any portion of the site, permanent vegetation shall be established on all exposed soils.
3. Site preparation activities to minimize the area and duration of soil disruption.
4. Establishment of permanent traffic corridors to ensure that "routes of convenience" are avoided.

5.1 Temporary Erosion and Sediment Control Measures

The temporary erosion and sediment control measures described in the following sections are included as part of the construction documents.

5.1.1 Stabilized Construction Access

Prior to construction, stabilized construction access(es) will be installed, per accompanying plans, to reduce the tracking of sediment onto public roadways.

Construction traffic must enter and exit the site at the stabilized construction access(es). The intent is to trap dust and mud that would otherwise be carried off-site by construction traffic.

The access(es) shall be maintained in a condition, which will control tracking of sediment onto public rights-of-way or streets. When necessary, additional aggregate will be placed atop the filter fabric to assure the minimum thickness is maintained. All sediment and/or soil spilled, dropped, or washed onto public rights-of-way must be removed immediately. Periodic inspection and needed maintenance shall be provided after each substantial rainfall event.

5.1.2 Dust Control

Water trucks shall be used as needed during construction to reduce dust generated on-site. Dust control must be provided by the Contractor(s) to a degree that is acceptable to the Owner, and in compliance with the applicable local and state dust control requirements.

5.1.3 Temporary Soil Stockpile

Materials, such as topsoil, will be temporarily stockpiled (if necessary) on the site during the construction process. Stockpiles shall be located in an area away from storm drainage, water bodies and/or courses, and will be properly protected from erosion by a surrounding silt fence barrier.

5.1.4 Silt Fencing

Prior to the initiation of and during construction activities, a geotextile filter fabric (or silt fence) will be established downgradient of all disturbed areas. These barriers may extend into non-impact areas to provide adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To facilitate effectiveness of the silt fencing, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s). Maintenance of the fence will be performed as needed.

5.1.5 Temporary Seeding

For areas undergoing clearing, grading, and disturbance as part of construction activities, where work has temporarily ceased, temporary soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has temporarily ceased.

Temporary sediment traps depicted on the accompanying plans have been designed to provide 3,600 CF of storage per acre of tributary watershed.

5.1.6 Compost Filter Sock

Prior to the initiation of and during construction activities, a compost filter sock (or silt sock) will be established downgradient of all disturbed areas. These filters may extend into non-impact areas to provide adequate protection of adjacent lands. The spacing of the compost filter sock, which will depend on the ground slope and diameter of the sock, shall be based upon New York State or EPA guidance.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control filter; and unlike sediment control barriers, trenching is not required. The ends of the filter sock should be directed upslope, to prevent stormwater from running around the end of the sock. The preferred anchoring method is to drive stakes through the center of the sock at regular intervals; alternatively, stakes can be placed on the downstream side of the sock. To facilitate effectiveness of the compost filter sock, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s) to ensure that they are intact and the area behind the sock is not filled with sediment. Maintenance of the sock will be performed as needed.

5.2 Permanent Erosion and Sediment Control Measures

The permanent erosion and sediment control measures described in the following sections are included as part of the construction documents.

5.2.1 Establishment of Permanent Vegetation

Disturbed areas that will be vegetated must be seeded in accordance with the contract documents. The type of seed, mulch, and maintenance measures as described in the contract documents shall also be followed.

Permanent soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has permanently ceased.

Final site stabilization is achieved when all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

5.3 Other Pollutant Controls

Part I.B.1.e of GP-0-20-001 prohibits discharges from construction material wastewater, pollutants used in vehicle and equipment operation and maintenance, vehicle and equipment washing and toxic or hazardous substances.

The following table identifies materials and/or chemicals commonly used and/or stored on construction sites and should be addressed in the site-specific spill prevention and response plan:

Table 6: Common Construction Pollutants

Material/Chemical	Physical Description	Stormwater Pollutants	Location*
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous	Newly seeded areas
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Black solid	Oil, petroleum distillates	Streets and roofing
Concrete	White solid/grey liquid	Limestone, sand, pH, chromium	Curb and gutter, building construction
Curing compounds	Creamy white liquid	Naphtha	Curb and gutter
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment / staging area
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes	Secondary containment / staging area
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates	Secondary containment / staging area
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Various colored liquid	Bacteria, parasites, and viruses	Staging area
Construction materials			
Granular fill	Various colored solids	Sediment	Stockpile / fill areas
Subbase course	Gray/brown solid	Sediment, dust	Stockpile
Topsoil	Brown solid	Sediment	Stockpile
Mulch	Various colored solid	Sediment, debris	Staging area
Seed	Brown/yellow solid	Nutrients, debris	Staging area
HDPE Storm Pipe	Black solid		Staging area
SDR-35, SDR-21 PVC Pipe	Various colored solid		Staging area
Metals Frames and Grates	Gray solid		Staging area
Joint Sealant	Light gray viscous solid	Polyurethane	Staging area

*(Area where material/chemical is used on-site)

5.4 Construction Housekeeping Practices

During the construction phase, the Contractor(s) will implement the following measures:

5.4.1 Sediment Sweeping/Vacuuming

Any sediment that is tracked by construction vehicles or erosion onto adjacent public or private impervious surfaces must be swept or vacuumed, utilizing self-propelled and/or walk-behind equipment, and removed on a daily basis. Kick brooms and sweeper attachments are not an acceptable means of sweeping. Sweeping or vacuuming should not take place while tracked sediment is wet. If tracked sediment is compacted, the sediment must be scraped loose prior to sweeping or vacuuming.

5.4.2 Material Stockpiles

Material resulting from clearing and grubbing operations that will be stockpiled on-site, must be adequately protected with downgradient erosion and sediment controls.

5.4.3 Equipment Cleaning and Maintenance

The Contractor(s) will designate areas for equipment cleaning, maintenance, and repair. The Contractor(s) and subcontractor(s) will utilize those areas. The areas will be protected by a temporary perimeter berm.

5.4.4 Detergents

The use of detergents for large-scale washing is prohibited (i.e., vehicles, buildings, pavement surfaces, etc.).

5.4.5 Spill Prevention and Response

A Spill Prevention and Response Plan shall be developed, for the pollutants identified in Section 5.3, for the site by the Contractor(s) that addresses the following:

1. Reducing chance of spills
2. Stopping the source of spills
3. Containing and cleaning up spills
4. Disposing of materials contaminated by spills
5. Training personnel responsible for spill prevention/response
6. Material handling procedures
7. Material storage requirements

The plan shall detail the steps required in the event of an accidental spill and shall identify contact names and phone numbers of people and agencies that must be notified.

The plan shall include Safety Data Sheets (SDS) for all materials to be stored on-site. All workers on-site will be required to be trained on safe handling and spill prevention procedures for all materials used during construction. Regular tailgate safety meetings shall be held and all workers that are expected on the site during the week shall be required to attend.

5.4.6 Concrete Washout Areas

A temporary concrete washout area shall be provided for every project where concrete will be poured or otherwise formed on-site and shall consist of an excavated or above-ground lined construction pit where concrete trucks or equipment can be washed out after their loads have been discharged. Waste generated from concrete wash water that shall not be allowed to flow into drainage ways, inlets, receiving

waters, highway right-of-way, or any location other than the designated concrete washout area(s). Proper signage shall be placed adjacent to the facility to designate the "Concrete Washout Area". Locate the facility a minimum of 100-feet from drainage swales, storm drain inlets, wetlands, streams, and other surface waters. Prevent surface water from entering the washout area.

The hardened residue from the concrete wash areas will be disposed of in the same manner as other non-hazardous construction waste materials. Maintenance of the washout area shall include removal of hardened material when 75% of the storage capacity is filled, and a minimum freeboard of 12 inches shall be maintained. The Contractor will be responsible for seeing that these procedures are followed. The project may require the use of multiple concrete washout areas based on the frequency of concrete pours.

5.4.7 Material Storage

Construction materials shall be stored in a dedicated staging area. The staging area shall be located in an area that prevents negative impacts of construction materials on stormwater quality.

Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the site, treated, and disposed of at an approved solid waste or chemical disposal facility.

6.0 INSPECTIONS, MAINTENANCE, AND REPORTING

6.1 Inspection and Maintenance Requirements

6.1.1 Pre-Construction Inspection and Certification

Prior to the commencement of construction, the Qualified Inspector/Qualified Professional shall conduct an assessment of the site and certify that the appropriate erosion and sediment control measures have been adequately installed and implemented. The Contractor shall contact the Qualified Inspector/Qualified Professional once the erosion and sediment control measures have been installed.

6.1.2 Construction Phase Inspections and Maintenance

A Qualified Inspector/Qualified Professional, as defined in Appendix A of the General Permit GP-0-20-001, shall conduct regular site inspections between the time this SWPPP is implemented and final site stabilization. Site inspections shall occur at an interval of at least once every seven (7) calendar days.

The purpose of site inspections is to assess performance of pollutant controls. Based on these inspections, the Qualified Inspector/Qualified Professional will decide whether it is necessary to modify this SWPPP, add or relocate sediment barriers, or whatever else may be needed in order to prevent pollutants from leaving the site via stormwater runoff. The general contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

1. Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. A stabilized construction access will be constructed where vehicles enter and exit. This access will be maintained or supplemented as necessary to prevent sediment from leaving the site on vehicles.
2. Sediment barriers must be inspected and, if necessary, they must be enlarged or cleaned in order to provide additional capacity. All material from behind sediment barriers will be stockpiled on the up slope side. Additional sediment barriers must be constructed as needed.
3. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.
4. Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement, or have a stand of grass with at least 80 percent density. The density of 80 percent or greater must be maintained to be considered as stabilized. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.
5. All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

The inspection reports must be completed entirely and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

Within one (1) business day of the completion of an inspection, the *Qualified Inspector/Qualified Professional* shall notify the Owner/Operator and appropriate contractor or subcontractor of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one (1) business day of the notification and shall complete the corrective actions in a reasonable time frame.

In addition to the inspections performed by the *Qualified Inspector/Qualified Professional*, the Contractor shall perform routine inspections that include a visual check of all erosion and sediment control measures. All inspections and maintenance shall be performed in accordance with the inspection and maintenance schedule provided on the accompanying plans. Sediment removed from erosion and sediment control measures will be exported from the site, stockpiled for later use, or used immediately for general non-structural fill.

It is the responsibility of the general contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the accompanying plans. (For example, localized concentrations of runoff could make it necessary to install additional sediment barriers, sediment traps, etc.) Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization.

6.1.3 Temporary Suspension of Construction Activities

For construction sites where soil disturbance activities have been temporarily suspended (e.g. Winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the frequency

of Qualified Inspector/Qualified Professional inspections can be reduced to once every 30 calendar days. Prior to reducing the frequency of inspections, the Owner/Operator shall notify the NYSDEC Region 3 stormwater contact person and the Village of Briarcliff Manor in writing.

6.1.4 Partial Project Completion

For construction sites where soil disturbance activities have been shut down with partial project completion, all areas disturbed as of the project shutdown date have achieved final stabilization, and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational, the inspections by the Qualified Inspector/Qualified Professional can stop. Prior to the shutdown, the Owner/Operator shall notify the NYSDEC Region 3 stormwater contact person and the Village of Briarcliff Manor in writing.

If soil disturbance activities have not resumed within two years from the date of shutdown, a Notice of Termination (NOT) shall be properly completed and submitted to the NYSDEC.

6.1.5 Post-Construction Inspections and Maintenance

Inspections and maintenance of final stabilization measures and post-construction stormwater management practices shall be performed in accordance with Appendix G, once all disturbed areas are stabilized and all stormwater management systems are in place and operable.

6.2 Reporting Requirements

6.2.1 Inspection Reports

Pursuant to Part IV.C of GP-0-20-001, inspection reports shall be prepared for the duration of construction, as outlined herein, and shall be signed by the *Qualified Inspector* or *Qualified Professional*. A sample inspection form is provided in Appendix F.

At a minimum, each inspection report shall record the following information:

1. Date and time of inspection.
2. Name and title of person(s) performing inspection.
3. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection.
4. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow.
5. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody.
6. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance.
7. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced.

8. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection.
9. Indication of the current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards.
10. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s).
11. Identification and status of all corrective actions that were required by previous inspection.
12. Color photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *Qualified Inspector/Qualified Professional* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *Qualified Inspector/Qualified Professional* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *Qualified Inspector/Qualified Professional* shall attach the paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

6.2.2 Site Log Book

Pursuant to Part II.D.2 of GP-0-20-001, the Owner/Operator shall retain a copy of the General Permit, NOI, NOI Acknowledgment Letter, MS4 SWPPP Acceptance Form (if applicable), inspection reports, contractor and subcontractor certification forms, and all documentation necessary to demonstrate eligibility under the permit, at the construction site from commencement of construction activity until the date that all areas of disturbance have achieved final stabilization and the Notice of Termination has been submitted to the NYSDEC.

The Site Log Book shall be maintained on-site in a secure location (i.e. job trailer, on-site construction office, or mailbox with lock) and must be accessible during normal business hours to an individual performing a compliance inspection.

6.2.3 Post Construction Records and Archiving

Following construction, the Owner/Operator shall retain copies of the SWPPP, the complete construction Site Log Book, and records of all data used to complete the NOI to be covered by this permit, for a period of at least five years from the date that the site is finally stabilized. This period may be extended by the NYSDEC, at its sole discretion, at any time upon written notification.

Records shall be maintained of all post construction inspections and maintenance work performed in accordance with the requirements outlined in Appendix G.

7.0 SWPPP IMPLEMENTATION RESPONSIBILITIES

A summary of the responsibilities and obligations of all parties involved with compliance with the NYSDEC SPDES General Permit GP-0-20-00 conditions is outlined in the subsequent sections. For a complete listing of the definitions, responsibilities, and obligations, refer to the SPDES General Permit GP-0-20-001 presented in Appendix J.

7.1 Owner's/Operator's Responsibilities

1. Ensure that control measures are selected, designed, installed, implemented and maintained to minimize the discharge of pollutants and prevent a violation of the water quality standards, meeting the non-numeric effluent limitations in Part I.B.1.(a)-(f) of the SPDES General Permit and in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

2. Retain the services of a "Qualified Inspector" or "Qualified Professional" as defined under Section 2.1, to provide the services outlined in Section 2.5 "Qualified Inspector's/Qualified Professional's Responsibilities."

3. Retain the services of a "Qualified Professional," as defined under Section 2.1, to provide the services outlined in Section 2.3 "Owner's/Operator's Engineers Responsibilities."

4. Have an authorized corporate officer sign the Owner/Operator Certification Form to accompany the eNOI. A copy of the completed NOI is included in Appendix B.

5. Submit the electronic version of the NOI (eNOI) along with the MS4 SWPPP acceptance form using the NYSDEC's website (http://www.dec.ny.gov/chemical/43133.html).

6. Pay the required initial and annual fees upon receipt of invoices from NYSDEC. These invoices are generally issued in the fall of each year. The initial fee is calculated as $110.00 per acre disturbed plus $675.00 per acre of net increase in impervious cover, and the annual fee is $110.00.

7. Prior to the commencement of construction activity, identify the contractor(s) and subcontractor(s) that will be responsible for implementing the erosion and sediment control measures and stormwater management practices described in this SWPPP. Have each of these contractors and subcontractors identify at least one "Trained Contractor", as defined under Section 2.1 that will be responsible for the implementation of the SWPPP. Ensure that the Contractor has at least one "Trained Contractor" on site on a daily basis when soil disturbance activities are being performed.

8. Schedule a pre-construction meeting which shall include the Village of Briarcliff Manor representative, Owner's/Operator's Engineer, Qualified Inspector, Contractor, and their sub-contractors to discuss responsibilities as they relate to the implementation of this SWPPP.

9. Require the Contractor to fully implement the SWPPP prepared for the site by the Owner/Operator's Engineer to ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved final stabilization and the Notice of Termination (NOT) has been submitted to the NYSDEC.

10. Forward a copy of the NOI Acknowledgement Letter received from the regulatory agency to the Owner's/Operator's Engineer for project records, and to the Contractor for display at the construction site.

11. Maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgement Letter, SWPPP, MS4 SWPPP Acceptance Form, inspection reports, Spill Prevention, Countermeasures, Cleanup ("SPCC") Plan, and all documentation in accordance with Part I.F.8.a.-d of GP-0-20-001 necessary to demonstrate eligibility with the permit at the construction site, until all disturbed areas have achieved final stabilization and the NOT has been submitted to the NYSDEC. Place

documents in a secure location that must be accessible during normal business hours to an individual performing a compliance inspection.

12. Submit a Notice of Termination (NOT) form (see Appendix B) within 48 hours of receipt of the Owner's/Operator's Engineer's certification of final site stabilization to the following:

    NOTICE OF TERMINATION
    NYS DEC, Bureau of Water Permits
    625 Broadway, 4th Floor
    Albany, New York 12233-3505

    Village of Briarcliff Manor
    1111 Pleasantville Road
    Briarcliff Manor, New York 10510

13. Request and receive all SWPPP records from the Owner's/Operator's Engineer and archive those records for a minimum of five (5) years after the NOT is filed.

14. Implement the Post-Construction Inspections and Maintenance procedures outlined in Appendix G.

15. The NOI, SWPPP, and inspection reports required by GP-0-20-001 are public documents that the Owner/Operator must make available for review and copying by any person within five (5) business days of the Owner/Operator receiving a written request by any such person to review the NOI, SWPPP, or inspection reports. Copying of documents will be done at the requester's expense.

16. The Owner/Operator must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the Owner/Operator shall amend the SWPPP, including construction drawings:

    a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the project site;

    b) Whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the discharge of pollutants; and

    c) To address issues or deficiencies identified during an inspection by the "Qualified Inspector," the Department, or other Regulatory Authority.

    d) To document the final construction conditions.

17. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original owner or operator must notify the new owner or operator, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For construction activities subject to the requirements of a regulated, traditional land use control MS4, the original owner or operator must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.

    a) Once the new owner or operator obtains permit coverage, the original owner or operator shall then submit a completed NOT with the name and permit identification number of the new owner or operator to the Department at the address in Part II.B.1. of the permit.

If the original owner or operator maintains ownership of a portion of the construction activity and will disturb soil, they must maintain their coverage under the permit.

b) Permit coverage for the new owner or operator will be effective as of the date the Department receives a complete NOI, provided the original owner or operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new owner or operator.

7.2 Owner's/Operator's Engineer's Responsibilities

1. Prepare the SWPPP using good engineering practices, best management practices, and in compliance with all federal, state, and local regulatory requirements.

2. Prepare the electronic Notice of Intent (eNOI) (see Appendix B) and sign the "SWPPP Preparer Certification Form." Forward the Owner/Operator Certification Form to the Owner/Operator for signature.

3. Provide copies of the SWPPP to the Village of Briarcliff Manor once all signatures and attachments are complete.

4. Enter Contractor's information in Section 2.5 "SWPPP Participants" once a Contractor is selected by the Owner/Operator.

5. Participate in a pre-construction meeting which shall include the Village of Briarcliff Manor representative, Owner/Operator, Qualified Inspector, Contractor, and all subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

6. Update the SWPPP each time there is a significant modification to the pollution prevention measures or a change of the principal Contractor working on the project who may disturb site soil.

7.3 Contractor's Responsibilities

1. Sign the SWPPP Contractor's Certification Form contained within Appendix B and forward to the Owner's/Operator's Engineer for inclusion in the Site Log Book.

2. Identify at least one Trained Contractor that will be responsible for implementation of this SWPPP. Ensure that at least one Trained Contractor is on site on a daily basis when soil disturbance activities are being performed. The Trained Contractor shall inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating conditions at all times. If deficiencies are identified, the contractor shall begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

3. Provide the names and addresses of all subcontractors working on the project site. Require all subcontractors who will be involved with construction activities that will result in soil disturbance to identify at least one Trained Contractor that will be on site on a daily basis when soil disturbance activities are being performed; and to sign a copy of the Subcontractor's Certification Form contained within Appendix B, then forward to the Owner's/Operator's Engineer for inclusion into the Site Log Book. This information must be retained as part of the Site Log Book.

4. Maintain a Spill Prevention and Response Plan in accordance with requirements outlined in Section 5 of this SWPPP. This plan shall be provided to the Owner's/Operator's Engineer for inclusion in the Site Log Book, prior to mobilization on-site.

5. Participate in a pre-construction meeting which shall include the Village of Briarcliff Manor representative, Owner/Operator, Owner's/Operator's Engineer, Qualified Inspector, and all subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

6. If Contractor plans on utilizing adjacent properties for material, waste, borrow, or equipment storage areas, or if Contractor plans to engage in industrial activity other than construction (such as operating asphalt and/or concrete plants) at the site, Contractor shall submit appropriate documentation to the Owner's/Operator's Engineer so that the SWPPP can be modified accordingly.

7. Implement site stabilization, erosion and sediment control measures, and other requirements of the SWPPP.

8. In accordance with the requirements in the most current version of the NYS Standards and Specifications for Erosion and Sediment Control, conduct inspections of erosion and sediment control measures installed at the site to ensure that they remain in effective operating condition at all times. Prepare and retain written documentation of inspections as well as of all repairs/maintenance activities performed. This information must be retained as part of the Site Log Book.

9. Begin implementing corrective actions within one (1) business day of receipt of notification by the Qualified Inspector/Qualified Professional that deficiencies exist with the erosion and sediment control measures employed at the site. Corrective actions shall be completed within a reasonable time frame.

10. Maintain a record of the date(s) and location(s) that soil restoration is performed in accordance with the accompanying plans and NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," dated April 2008. A copy of this is publication is provided in Appendix H. The record that is to be maintained shall be a copy of the overall site grading plan delineating the area(s) and date(s) that the soil was restored.

11. Upon completion of all construction at the site, the contractor responsible for overall SWPPP Compliance shall sign the certification on their Contractor Certification Form indicating that: a.) all temporary erosion and sediment control measures have been removed from the site, b.) the on-site soils disturbed by construction activity have been restored in accordance with the SWPPP and the NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," and c.) all permanent stormwater management practices required by the SWPPP have been installed in accordance with the contract documents.

7.4 Qualified Inspector's/Qualified Professional's Responsibilities

1. Participate in a pre-construction meeting with the Village of Briarcliff Manor representative, Owner/Operator, Owner/Operator's Engineer, Contractor, and their subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.

2. Conduct an initial assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment control measures described

within this SWPPP have been adequately installed and implemented to ensure overall preparedness of the site.

3. Provide on-site inspections to determine compliance with the SWPPP. Site inspections shall occur at an interval of at least once every seven calendar days. A written inspection report shall be provided to the Owner/Operator and general contractor within one business day of the completion of the inspection, with any deficiencies identified. A sample inspection form is provided in Appendix F.

4. Prepare an inspection report subsequent to each and every inspection that shall include/address the items listed in Part IV.C.4.a-k of GP-0-20-001. Sign all inspection reports and maintain on site with the SWPPP.

5. Notify the owner/operator and appropriate contractor or subcontractor of any corrective actions that need to be taken.

6. Prepare a construction Site Log Book to be used as a record of all inspection reports generated throughout the duration of construction. Ensure that the construction Site Log Book is maintained and kept up-to-date throughout the duration of construction.

7. Review the Contractor's SWPPP records on a periodic basis to ensure compliance with the requirements for daily reports, soil restoration, inspections, and maintenance logs.

8. Prepare the Notice of Termination (NOT). The Qualified Professional shall sign the NOT Certifications VI (Final Stabilization) and VII (Post-construction Stormwater Management Practices), and forward the NOT to the Owner/Operator for signature on Certification VIII (Owner/Operator Certification).

9. Transfer the SWPPP documents, along with all NOI's, permit certificates, NOT's, construction Site Log Book, and written records required by the General Permit to the Owner/Operator for archiving.

7.5 SWPPP Participants

1. Owner's/Operator's Engineer [2]: Michael Mishook, PE
   LaBella Associates, DPC
   100 West Water Street, Suite 101
   Elmira, New York 14901
   Phone: (607) 319-4136

2. Owner/Operator [3]: David Magid
   YSG Solar
   79 Madison Avenue, 8th Floor
   New York, New York 10016
   Phone: (212) 389-9215

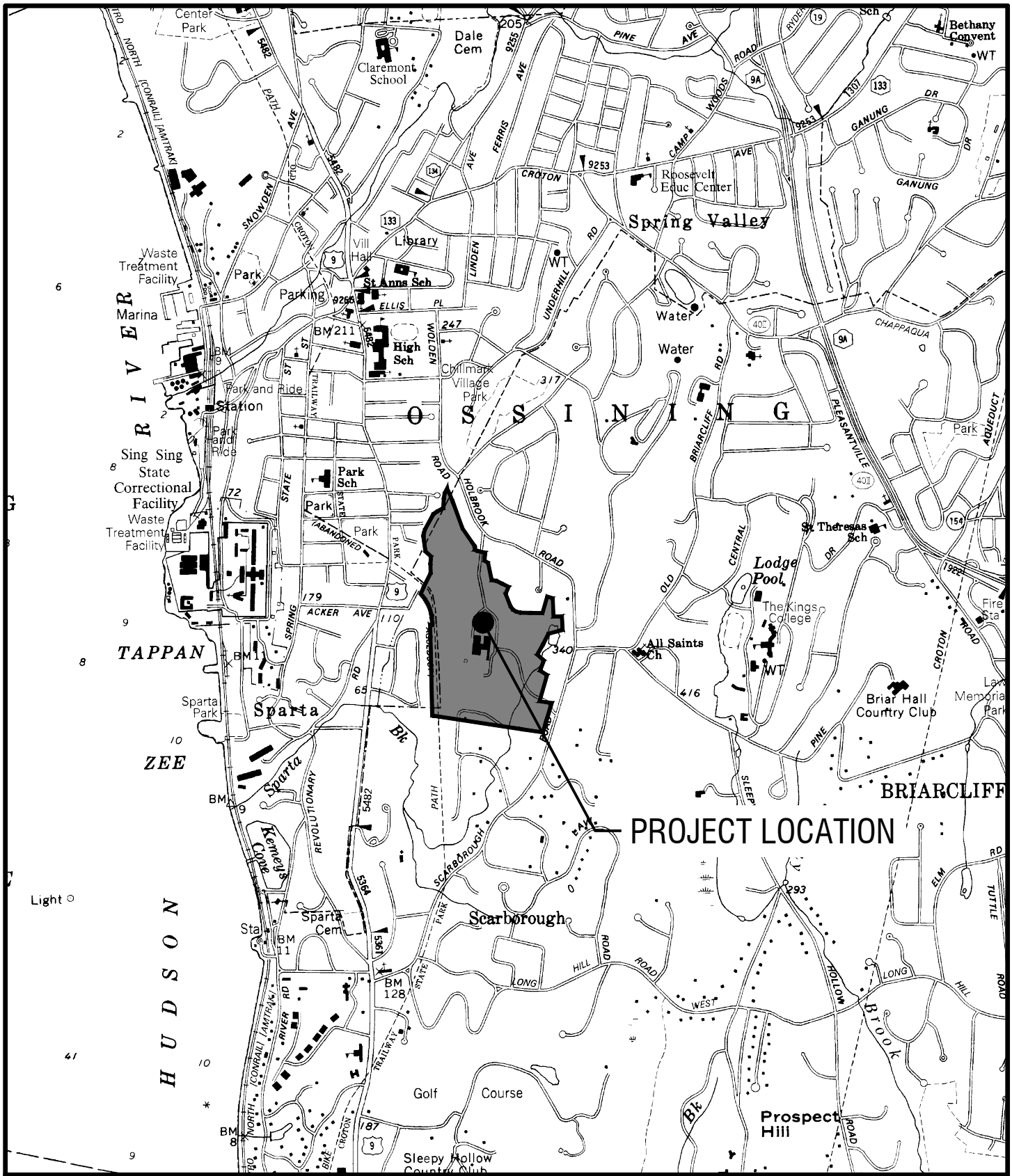
3. Contractor[4,6]:
   Name and Title: _____
   Company Name: _____
   Mailing Address: _____
   _____
   Phone: _____
   Fax: _____

[2] *Refer to Appendix B for the SWPPP Preparer Certification Form.*
[3] *Refer to Appendix B for the Owner/Operator Certification Form.*
[5] *Refer to Appendix B for Contractor and Subcontractor Certification Form.*
[6] *Contractor's information to be entered once the Contractor has been selected.*

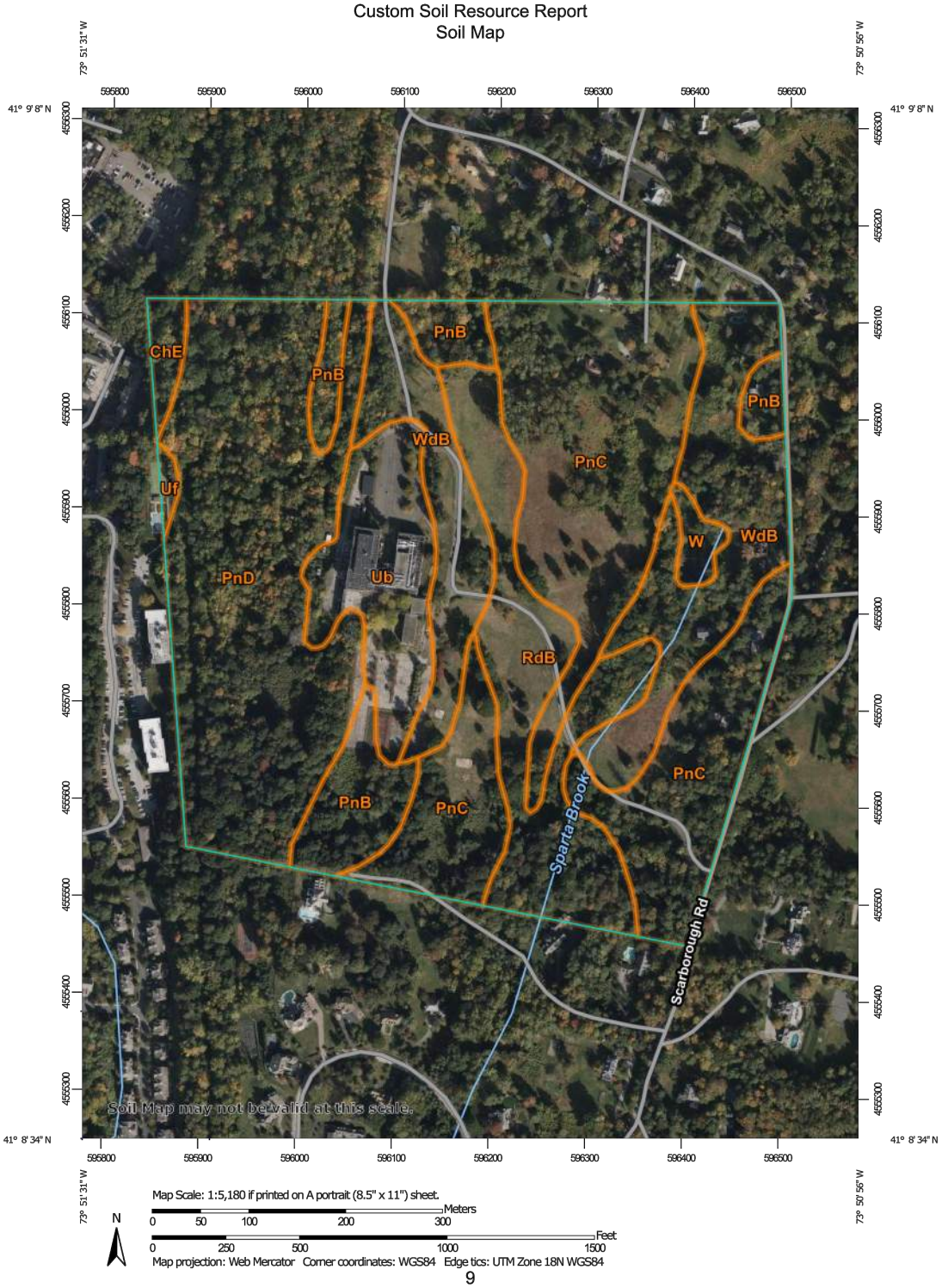
APPENDIX A:
FIGURES

A-1: Site Location Map
A-2: Soils Map
A-3: OPRHP Coordination Documentation
A-4: Environmental Resource Map
A-5: FEMA Firm Map
A-6: Pre-Development Watershed Delineation Map
A-7: Post-Development Watershed Delineation Map

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PROJECT LOCATION
OSSINING
Spring Valley
TAPPAN ZEE
HUDSON RIVER
BRIARCLIFF
Sparta
Scarborough
Sparta Park
Sparta Cem
Claremont School
Dale Cem
Center Park
Waste Treatment Facility
Marina
Park and Ride Station
Sing Sing State Correctional Facility
Waste Treatment Facility
Park
Parking
St Anns Sch
High Sch
Park Sch
Library
Vill Hall
Chilmark Village Park
Roosevelt Educ Center
Water
Water
Lodge Pool
The Kings College
All Saints Ch
St Theresas Sch
Bethany Convent
Briar Hall Country Club
Golf Course
Sleepy Hollow Country Club
Prospect Hill
Kemeys Cove
Light
Fire Sta
Sta
Park
Park
Park

Custom Soil Resource Report
Soil Map



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ISSUED FOR: SWPPP

DRAWING NAME: **HYDROLOGIC SOIL GROUP MAP**

DRAWN BY:

DATE: MAY 2022

PROJECT NO.: 2221884

PROJECT NAME: **BRIARCLIFF SOLAR**
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY

DRAWING NUMBER: **A-2a**

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 17, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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ISSUED FOR: SWPPP

DRAWING NAME: **HYDROLOGIC SOIL GROUP LEGEND**

DRAWN BY:

DATE: MAY 2022

PROJECT NO.: 2221884

PROJECT NAME: **BRIARCLIFF SOLAR**
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY

DRAWING NUMBER: **A-2b**

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChE	Charlton loam, 25 to 35 percent slopes	1.0	1.0%
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	6.4	6.7%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	28.1	29.8%
PnD	Paxton fine sandy loam, 15 to 25 percent slopes	23.3	24.7%
RdB	Ridgebury complex, 3 to 8 percent slopes	11.3	11.9%
Ub	Udorthents, smoothed	7.1	7.6%
Uf	Urban land	0.3	0.3%
W	Water	0.9	0.9%
WdB	Woodbridge loam, 3 to 8 percent slopes	16.1	17.0%
Totals for Area of Interest		**94.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a

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ISSUED FOR: SWPPP

DRAWING NAME: HYDROLOGIC SOIL GROUP TABLE

DRAWN BY:

DATE: MAY 2022

PROJECT NO.: 2221884

PROJECT NAME: BRIARCLIFF SOLAR
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY

DRAWING NUMBER: A-2c

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NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

May 5, 2022

Nadia Jagdat
Development Associate
YSG Solar Development Company LLC
79 Madison Avenue
8th Floor
New York, NY 10016

Re: DEC
Briarcliff Solar/5MW/40 of 78 acres
345 Scarborough Rd, Briarcliff Manor, Westchester County
22PR01760

Dear Nadia Jagdat:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6NYCRR Part 617).

We note the project site is located where the Philips Research North America Campus is currently located, eligible to be listed on the State and National Registers of Historic Places (S/NRHP) and within 350 feet of Holly Hill, a S/NRHP-Eligible Building District and the Old Croton Aqueduct, a National Historic Landmark. We have reviewed the solar array drawings dated November 18, 2021, and the documentation of all properties 50-years of age or older located adjacent or within the project boundaries dated April 14, 2022, for the proposed 40-acre, 5,000 KWAC solar photovoltaic array system located within the Town of Briarcliff Manor along Scarborough Road.

The project site is located within a former research campus that features a combination of open lawn areas surrounded by more densely wooded areas. Surrounding the former campus are residential neighborhoods, which are also surrounded by dense vegetation. The project description calls for the demolition of the Philips Research North America Campus. Please note that in accordance with Section 14.09 of the New York State Historic Preservation Act of 1980, demolition of a historic building constitutes an Adverse Impact to the resource. This is an action that can only move forward after all prudent and feasible alternatives to demolition have been considered. At this time, we urge you to reconsider demolition of the research campus. In order to continue our review of the proposed work, the OPRHP requests the following information:

1. Design drawings for the proposed solar facility, including the existing and proposed site plans. The Old Croton Aqueduct boundaries should be noted on the site plan, as well as all proposed fencing and screening methods.
2. Documentation of the Philips Research North America Campus, including existing conditions photographs of the interior and exterior and an engineer's report documenting any potential structural failures that may currently exist.
3. Alternatives exploring locations for the proposed solar arrays that do not require the demolition of the Philips Research North America Campus.

Please submit the requested information via our Cultural Resource Information System (CRIS) at www.nysparks.com/shpo/online-tools/. To submit, log into CRIS as a guest, choose "submit" at the very top of the menu, and then choose "submit new information for an existing project" You will need this project number and your email address.

If you have any questions, please feel free to reach out via email.

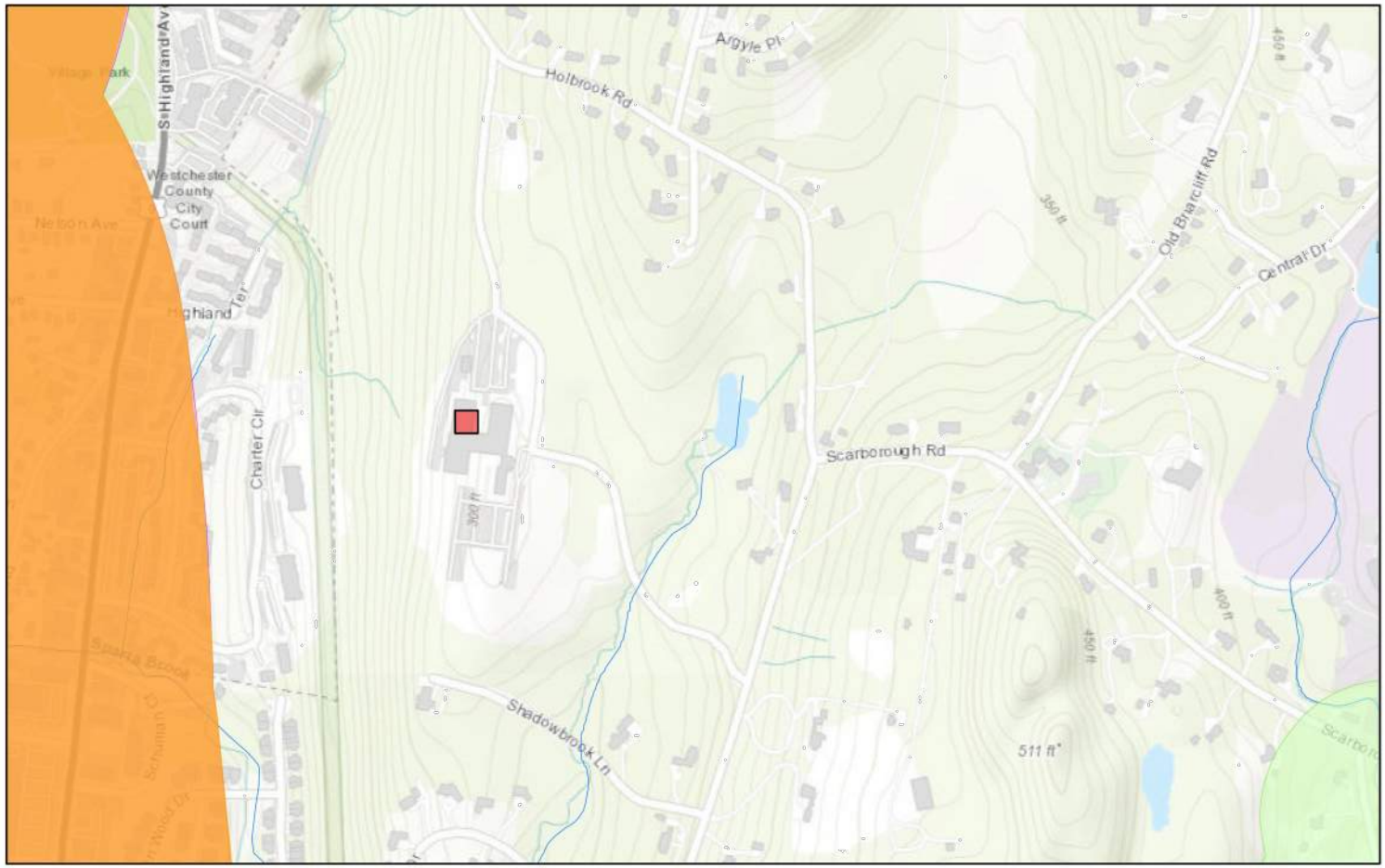
Sincerely,



Sara McIvor
Historic Preservation Technical Specialist
E-mail: sara.mcivor@parks.ny.gov

cc: C. Vandrei – NYS DEC

Environmental Resource Mapper - Briarcliff



May 11, 2022

1:9,028

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

NYS Department of Environmental Conservation

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ISSUED FOR: SWPPP

DRAWING NAME: **ENVIRONMENTAL RESOURCE MAP**

DRAWN BY:

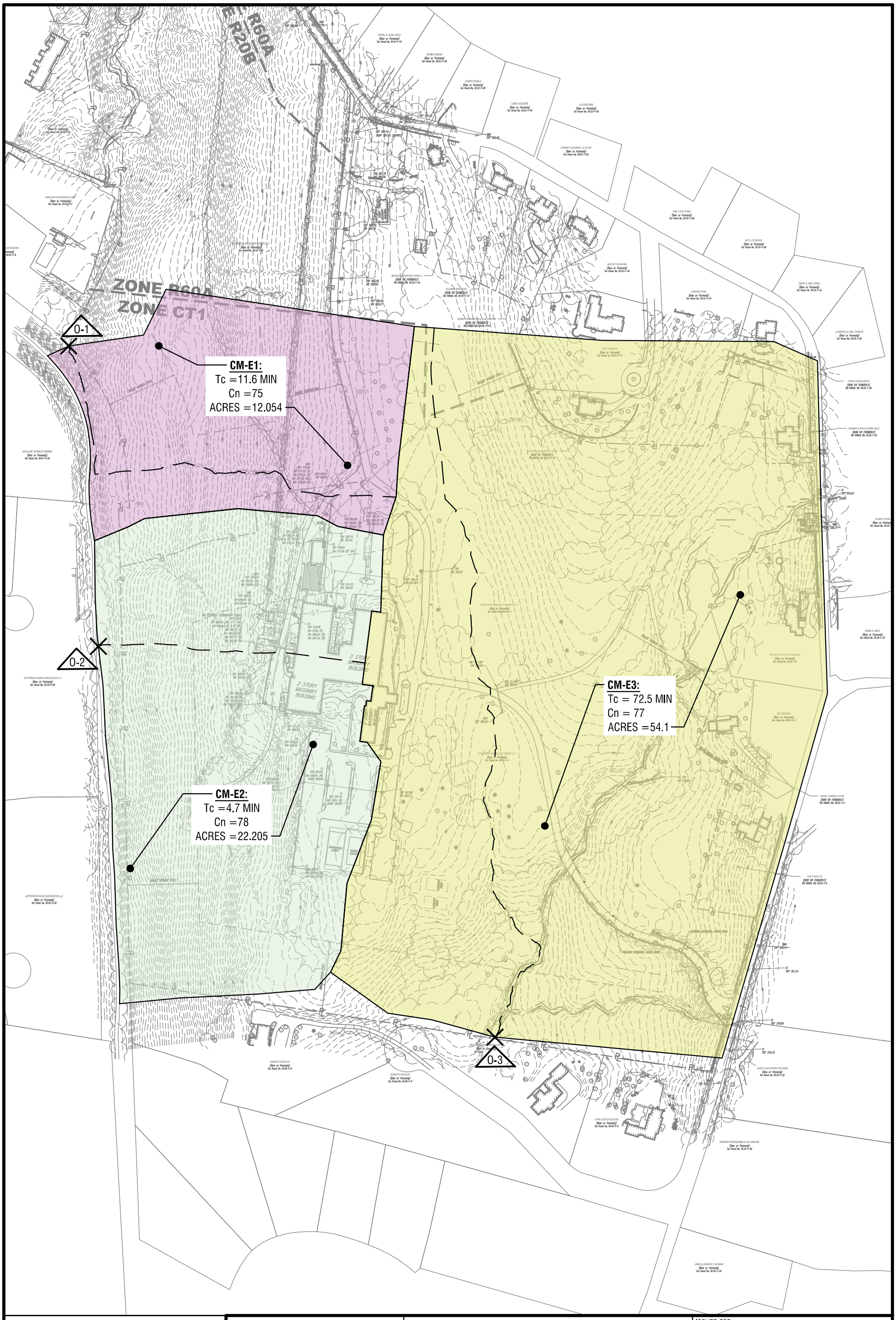
DATE: MAY 2022

PROJECT NO.: 2221884

PROJECT NAME: **BRIARCLIFF SOLAR**
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY

DRAWING NUMBER: **A-4**

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ISSUED FOR: SWPPP

DRAWING NAME: EXISTING DRAINAGE MAP

DRAWN BY:

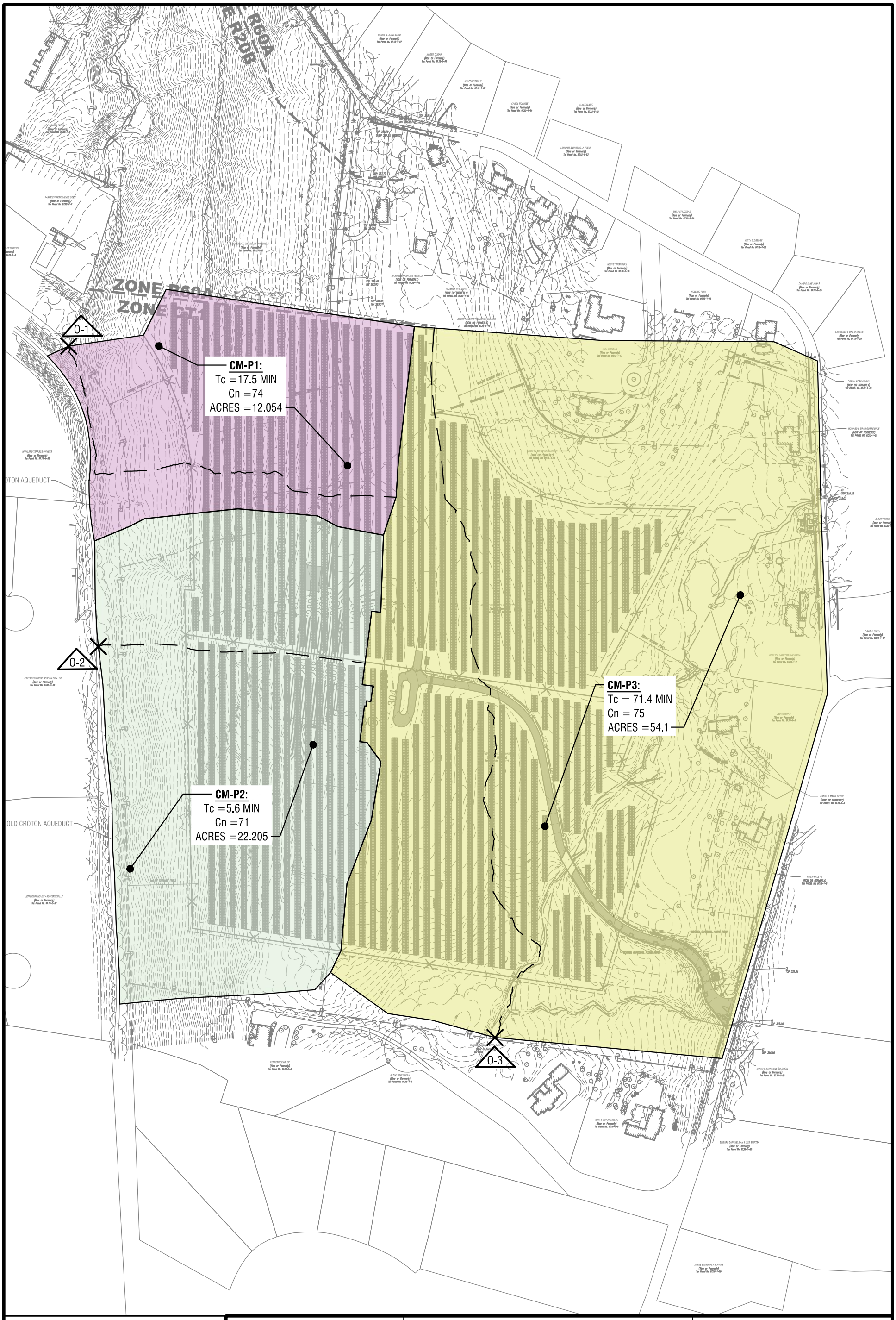
DATE: 5/10/2022

PROJECT NO.: 2221884

PROJECT NAME: **BRIARCLIFF SOLAR ARRAY**
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY 10510

DRAWING NUMBER: **A-6**

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ISSUED FOR: SWPPP

DRAWING NAME: PROPOSED DRAINAGE MAP

DRAWN BY:

DATE: 5/10/2022

PROJECT NO.: 2221884

PROJECT NAME: **BRIARCLIFF SOLAR ARRAY**
345 SCARBOROUGH RD, BRIARCLIFF MANOR, NY 10510

DRAWING NUMBER: **A-7**

APPENDIX B:
FORMS

Notice of Intent (NOI)
MS4 SWPPP Acceptance Form
SWPPP Preparer Certification Form
Owner/Operator Certification Form
Contractor and Subcontractor Certification Forms
Notice of Termination (NOT)

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NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	YSG Solar
2. Contact Person:	David Magid
3. Street Address:	79 Madison Avenue, 8th Floor
4. City/State/Zip:	New York, New York 10016
II. Project Site Information	
5. Project/Site Name:	Briarcliff Solar
6. Street Address:	354 Scarborogh Road
7. City/State/Zip:	Briarcliff Manor, New York 10510
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	VIllage of Briarcliff Manor
12. MS4 SPDES Permit Identification Number: NYR20A	315
13. Contact Person:	Joshua Ringel
14. Street Address:	1111 Pleasantville Road
15. City/State/Zip:	Briarcliff Manor, New York 10510
16. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information

Project/Site Name

Briarcliff Solar

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

YSG Solar

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Michael	M	Mishook
First name	MI	Last Name

Signature

Date

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: Briarcliff Solar

eNOI Submission Number: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name M.I. Last Name

_____

Signature

_____

Date

Stormwater Pollution Prevention Plan
Contractor Certification Statement
(Responsible for overall SWPPP Compliance)

Briarcliff Solar
354 Scarborogh Road, Village of Briarcliff Manor, Westchester County, New York

This is to certify that the following contracting firm will be responsible for installing, constructing, repairing, inspecting and/or maintaining the erosion and sediment control practices and post-construction stormwater management control practices required by the SWPPP.

Contracting Firm Information

Name: _____

Address: _____

Telephone & Fax: _____

Trained Contractor(s)[1] Responsible for SWPPP Implementation (Provide name, title, and date of last training)

_____

_____

Prior to commencement of construction activity, the following certification shall be issued:

I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations.

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

Upon completion of construction activities, the following certification shall be issued, prior to issuance of the NOT:

I hereby certify that that all permanent stormwater management practices required by the SWPPP have been installed in accordance with the contract documents. I further certify that all temporary erosion and sediment control measures have been removed from the site, and that the on-site soils disturbed by construction activity have been restored in accordance with the SWPPP and the NYSDEC Division of Water's publication "Deep-Ripping and Decompaction".

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

[1] "Trained Contractor" means an employee from a contracting (construction) company that has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the "trained contractor" shall receive four (4) hours of training every three (3) years. It can also mean an employee from the contracting (construction) company that meets the "qualified inspector" qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity). The "Trained Contractor" will be responsible for the day to day implementation of the SWPPP.

[2] Signatory Requirements:

a. For a corporation, this form shall be signed by (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. For a partnership or sole proprietorship, this form shall be signed by a general partner or the proprietor, respectively.

c. For a municipality, State, Federal, or other public agency, this form shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g. Regional Administrators of EPA).

Stormwater Pollution Prevention Plan
Subcontractor Certification Statement
(whose work involves soil disturbance)

Briarcliff Solar
354 Scarborogh Road, Village of Briarcliff Manor, Westchester County, New York

Each Subcontractor whose work will involve soil disturbance of any kind is required to complete and sign this Certification Statement before commencing any construction activity at the site. This completed Certification Statement(s) shall be maintained at the construction site in the Site Log Book.

Subcontracting Firm Information

Name: _____

Address: _____

_____

Telephone & Fax: _____

Trained Contractor(s)[2] Responsible for SWPPP Implementation (Provide name, title, and date of last training)

_____

_____

Prior to commencement of construction activities, the following certification shall be issued:

I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations.

Printed Name: _____

Title/Position: _____

Signature: _____ Date: _____

[2] "Trained Contractor" means an employee from a contracting (construction) company that has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the "trained contractor" shall receive four (4) hours of training every three (3) years. It can also mean an employee from the contracting (construction) company that meets the "qualified inspector" qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity). The "Trained Contractor" will be responsible for the day to day implementation of the SWPPP.

[2] Signatory Requirements:

a. For a corporation, this form shall be signed by (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. For a partnership or sole proprietorship, this form shall be signed by a general partner or the proprietor, respectively.

c. For a municipality, State, Federal, or other public agency, this form shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g. Regional Administrators of EPA).

APPENDIX C:
PROJECT EVALUATION AND DESIGN CALCULATIONS

Six Step Process Calculation Worksheet

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Appendix C - Table A
Step 1 - Evaluation of Green Infrastructure Planning Measures

Group	Practice	Description	Applicable	Project Specific Evaluation
Preservation of Natural Resources	**Preservation of Undisturbed Areas**	Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.	**N/A**	The proposed site layout has been designed to limit land disturbance to the greatest extent practical.
	Preservation of Buffers	Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.	**Yes**	There is a perennial stream located on the project site. For the area adjacent to this water body, a 10-ft naturally vegetated buffer will be applied. No disturbance will occur within this buffer.
	Reduction of Clearing and Grading	Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.	**Yes**	As a Redevelopment Project, the majority of the land in question had been previously cleared or graded for construction of the existing buildings, roadways, etc. Site clearing and grading required for redevelopment will be minor in nature. The limits of all proposed clearing will be demarcated in the field with orange construction fencing, prior to construction, to prevent unnecessary removal of trees.
	Locating Development in Less Sensitive Areas	Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.	**Yes**	There are no floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats located on the project site. As such, this green planning measure does not apply.
	Open Space Design	Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.	**N/A**	The site layout has been designed to maximize open space. Impervious surfaces have been minimized to the greatest extent practical.
	Soil Restoration	Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of practices such as downspout disconnections, grass channels, filter strips, and tree clusters.	**Yes**	Full soil restoration is proposed for all areas of disturbance that will not become hardscape. All areas will be stabilized with seed & mulch, and landscaped areas will be provided.
	Roadway Reduction	Minimize roadway widths and lengths to reduce site impervious area	**N/A**	No new roadways are proposed as part of this project.

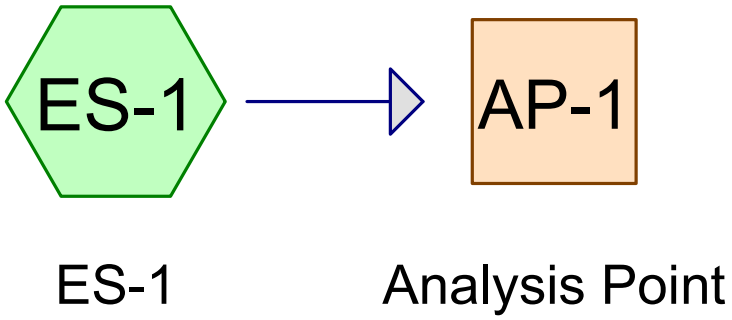
Reduction of Impervious Cover	**Sidewalk Reduction**	Minimize sidewalk lengths and widths to reduce site impervious area	**N/A**	No new sidewalks are proposed as part of this project.
	Driveway Reduction	Minimize driveway lengths and widths to reduce site impervious area	**N/A**	No new driveways are proposed as part of this project.
	Cul-de-sac Reduction	Minimize the number of cul-de-sacs and incorporate landscaped areas to reduce their impervious cover.	**N/A**	No cul-de-sacs are proposed as part of this project.
	Building Footprint Reduction	Reduce the impervious footprint of residences and commercial buildings by using alternate or taller buildings while maintaining the same floor to area ratio.	**N/A**	No new buildings are proposed as part of this project.
	Parking Reduction	Reduce imperviousness on parking lots by eliminating unneeded spaces, providing compact car spaces and efficient parking lanes, minimizing stall dimensions, using porous pavement surfaces in overflow parking areas, and using multi-storied parking decks where appropriate.	**N/A**	No new parking is proposed as part of this project.

APPENDIX D:
PRE-DEVELOPMENT STORMWATER MODELING

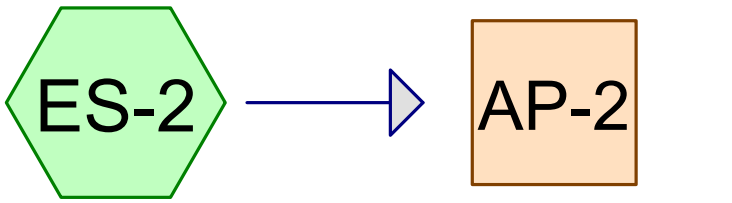
Existing Conditions HydroCAD Report

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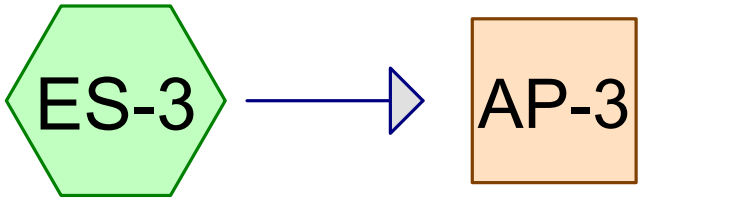
EXISTING



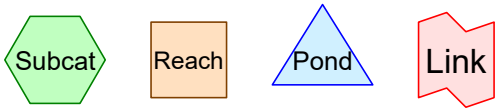
ES-1 Analysis Point



ES-2 Analysis Point



ES-3 Analysis Point



Project Notes

Defined 9 rainfall events from NY-Briarcliff IDF
Copied 9 events from NY-Briarcliff 24-hr S1 storm

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	Type III 24-hr		Default	24.00	1	2.78	2
2	10-yr	Type III 24-hr		Default	24.00	1	5.13	2
3	100-yr	Type III 24-hr		Default	24.00	1	9.26	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
9.882	74	>75% Grass cover, Good, HSG C (ES-3)
11.552	80	>75% Grass cover, Good, HSG D (ES-1, ES-2, ES-3)
1.229	98	Paved parking, HSG C (ES-2, ES-3)
4.176	98	Paved parking, HSG D (ES-1, ES-2)
1.791	98	Unconnected pavement, HSG D (ES-3)
0.108	60	Woods, Fair, HSG B (ES-1)
45.663	73	Woods, Fair, HSG C (ES-1, ES-2, ES-3)
13.958	79	Woods, Fair, HSG D (ES-1, ES-2, ES-3)
88.359	**77**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.108	HSG B	ES-1
56.774	HSG C	ES-1, ES-2, ES-3
31.477	HSG D	ES-1, ES-2, ES-3
0.000	Other	
88.359		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	9.882	11.552	0.000	21.434	>75% Grass cover, Good	ES-1, ES-2, ES-3
0.000	0.000	1.229	4.176	0.000	5.405	Paved parking	ES-1, ES-2, ES-3
0.000	0.000	0.000	1.791	0.000	1.791	Unconnected pavement	ES-3
0.000	0.108	45.663	13.958	0.000	59.729	Woods, Fair	ES-1, ES-2, ES-3
0.000	**0.108**	**56.774**	**31.477**	**0.000**	**88.359**	**TOTAL AREA**	

Notes Listing (all nodes)

Line#	Node Number	Notes
1	Project	Defined 9 rainfall events from NY-Briarcliff IDF
2		Copied 9 events from NY-Briarcliff 24-hr S1 storm

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ES-1: ES-1 Runoff Area=12.054 ac 5.62% Impervious Runoff Depth=0.82"
Flow Length=1,299' Tc=11.6 min CN=75 Runoff=8.87 cfs 0.824 af

Subcatchment ES-2: ES-2 Runoff Area=22.205 ac 15.92% Impervious Runoff Depth=0.97"
Flow Length=780' Tc=6.0 min CN=78 Runoff=24.41 cfs 1.804 af

Subcatchment ES-3: ES-3 Runoff Area=54.100 ac 5.52% Impervious Runoff Depth=0.92"
Flow Length=2,210' Tc=72.5 min CN=77 Runoff=19.22 cfs 4.154 af

Reach AP-1: Analysis Point Inflow=8.87 cfs 0.824 af
Outflow=8.87 cfs 0.824 af

Reach AP-2: Analysis Point Inflow=24.41 cfs 1.804 af
Outflow=24.41 cfs 1.804 af

Reach AP-3: Analysis Point Inflow=19.22 cfs 4.154 af
Outflow=19.22 cfs 4.154 af

Total Runoff Area = 88.359 ac Runoff Volume = 6.782 af Average Runoff Depth = 0.92"
91.86% Pervious = 81.163 ac 8.14% Impervious = 7.196 ac

Summary for Subcatchment ES-1: ES-1

Runoff = 8.87 cfs @ 12.18 hrs, Volume= 0.824 af, Depth= 0.82"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
0.677	98	Paved parking, HSG D
0.108	60	Woods, Fair, HSG B
10.159	73	Woods, Fair, HSG C
0.540	79	Woods, Fair, HSG D
0.570	80	>75% Grass cover, Good, HSG D
12.054	75	Weighted Average
11.377		94.38% Pervious Area
0.677		5.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.87		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.3	100	0.0700	5.37		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
1.6	175	0.1300	1.80		**Shallow Concentrated Flow, SCF2** Woodland Kv= 5.0 fps
2.2	300	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
11.6	1,299	Total			

Summary for Subcatchment ES-2: ES-2

Runoff = 24.41 cfs @ 12.09 hrs, Volume= 1.804 af, Depth= 0.97"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
0.035	98	Paved parking, HSG C
3.499	98	Paved parking, HSG D
16.693	73	Woods, Fair, HSG C
0.878	79	Woods, Fair, HSG D
1.100	80	>75% Grass cover, Good, HSG D
22.205	78	Weighted Average
18.671		84.08% Pervious Area
3.534		15.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.2	100	0.2400	9.94		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
0.4	80	0.0250	3.21		**Shallow Concentrated Flow, SCF2** Paved Kv= 20.3 fps
0.8	105	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
4.7	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment ES-3: ES-3

Runoff = 19.22 cfs @ 13.05 hrs, Volume= 4.154 af, Depth= 0.92"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
1.194	98	Paved parking, HSG C
1.791	98	Unconnected pavement, HSG D
18.811	73	Woods, Fair, HSG C
12.540	79	Woods, Fair, HSG D
9.882	74	>75% Grass cover, Good, HSG C
9.882	80	>75% Grass cover, Good, HSG D
54.100	77	Weighted Average
51.115		94.48% Pervious Area
2.985		5.52% Impervious Area
1.791		60.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
3.7	350	0.1000	1.58		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
72.5	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 5.62% Impervious, Inflow Depth = 0.82" for 1-yr event
Inflow = 8.87 cfs @ 12.18 hrs, Volume= 0.824 af
Outflow = 8.87 cfs @ 12.18 hrs, Volume= 0.824 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 15.92% Impervious, Inflow Depth = 0.97" for 1-yr event
Inflow = 24.41 cfs @ 12.09 hrs, Volume= 1.804 af
Outflow = 24.41 cfs @ 12.09 hrs, Volume= 1.804 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 5.52% Impervious, Inflow Depth = 0.92" for 1-yr event
Inflow = 19.22 cfs @ 13.05 hrs, Volume= 4.154 af
Outflow = 19.22 cfs @ 13.05 hrs, Volume= 4.154 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ES-1: ES-1 Runoff Area=12.054 ac 5.62% Impervious Runoff Depth=2.56"
Flow Length=1,299' Tc=11.6 min CN=75 Runoff=29.92 cfs 2.567 af

Subcatchment ES-2: ES-2 Runoff Area=22.205 ac 15.92% Impervious Runoff Depth=2.82"
Flow Length=780' Tc=6.0 min CN=78 Runoff=73.53 cfs 5.223 af

Subcatchment ES-3: ES-3 Runoff Area=54.100 ac 5.52% Impervious Runoff Depth=2.73"
Flow Length=2,210' Tc=72.5 min CN=77 Runoff=60.80 cfs 12.317 af

Reach AP-1: Analysis Point Inflow=29.92 cfs 2.567 af
Outflow=29.92 cfs 2.567 af

Reach AP-2: Analysis Point Inflow=73.53 cfs 5.223 af
Outflow=73.53 cfs 5.223 af

Reach AP-3: Analysis Point Inflow=60.80 cfs 12.317 af
Outflow=60.80 cfs 12.317 af

Total Runoff Area = 88.359 ac Runoff Volume = 20.107 af Average Runoff Depth = 2.73"
91.86% Pervious = 81.163 ac 8.14% Impervious = 7.196 ac

Summary for Subcatchment ES-1: ES-1

Runoff = 29.92 cfs @ 12.16 hrs, Volume= 2.567 af, Depth= 2.56"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
0.677	98	Paved parking, HSG D
0.108	60	Woods, Fair, HSG B
10.159	73	Woods, Fair, HSG C
0.540	79	Woods, Fair, HSG D
0.570	80	>75% Grass cover, Good, HSG D
12.054	75	Weighted Average
11.377		94.38% Pervious Area
0.677		5.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.87		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.3	100	0.0700	5.37		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
1.6	175	0.1300	1.80		**Shallow Concentrated Flow, SCF2** Woodland Kv= 5.0 fps
2.2	300	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
11.6	1,299	Total			

Summary for Subcatchment ES-2: ES-2

Runoff = 73.53 cfs @ 12.09 hrs, Volume= 5.223 af, Depth= 2.82"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
0.035	98	Paved parking, HSG C
3.499	98	Paved parking, HSG D
16.693	73	Woods, Fair, HSG C
0.878	79	Woods, Fair, HSG D
1.100	80	>75% Grass cover, Good, HSG D
22.205	78	Weighted Average
18.671		84.08% Pervious Area
3.534		15.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.2	100	0.2400	9.94		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
0.4	80	0.0250	3.21		**Shallow Concentrated Flow, SCF2** Paved Kv= 20.3 fps
0.8	105	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
4.7	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment ES-3: ES-3

Runoff = 60.80 cfs @ 12.97 hrs, Volume= 12.317 af, Depth= 2.73"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
1.194	98	Paved parking, HSG C
1.791	98	Unconnected pavement, HSG D
18.811	73	Woods, Fair, HSG C
12.540	79	Woods, Fair, HSG D
9.882	74	>75% Grass cover, Good, HSG C
9.882	80	>75% Grass cover, Good, HSG D
54.100	77	Weighted Average
51.115		94.48% Pervious Area
2.985		5.52% Impervious Area
1.791		60.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
3.7	350	0.1000	1.58		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
72.5	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 5.62% Impervious, Inflow Depth = 2.56" for 10-yr event
Inflow = 29.92 cfs @ 12.16 hrs, Volume= 2.567 af
Outflow = 29.92 cfs @ 12.16 hrs, Volume= 2.567 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 15.92% Impervious, Inflow Depth = 2.82" for 10-yr event
Inflow = 73.53 cfs @ 12.09 hrs, Volume= 5.223 af
Outflow = 73.53 cfs @ 12.09 hrs, Volume= 5.223 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 5.52% Impervious, Inflow Depth = 2.73" for 10-yr event
Inflow = 60.80 cfs @ 12.97 hrs, Volume= 12.317 af
Outflow = 60.80 cfs @ 12.97 hrs, Volume= 12.317 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment ES-1: ES-1 Runoff Area=12.054 ac 5.62% Impervious Runoff Depth=6.19"
Flow Length=1,299' Tc=11.6 min CN=75 Runoff=72.24 cfs 6.219 af

Subcatchment ES-2: ES-2 Runoff Area=22.205 ac 15.92% Impervious Runoff Depth=6.57"
Flow Length=780' Tc=6.0 min CN=78 Runoff=168.02 cfs 12.150 af

Subcatchment ES-3: ES-3 Runoff Area=54.100 ac 5.52% Impervious Runoff Depth=6.44"
Flow Length=2,210' Tc=72.5 min CN=77 Runoff=142.85 cfs 29.040 af

Reach AP-1: Analysis Point Inflow=72.24 cfs 6.219 af
Outflow=72.24 cfs 6.219 af

Reach AP-2: Analysis Point Inflow=168.02 cfs 12.150 af
Outflow=168.02 cfs 12.150 af

Reach AP-3: Analysis Point Inflow=142.85 cfs 29.040 af
Outflow=142.85 cfs 29.040 af

Total Runoff Area = 88.359 ac Runoff Volume = 47.410 af Average Runoff Depth = 6.44"
91.86% Pervious = 81.163 ac 8.14% Impervious = 7.196 ac

Summary for Subcatchment ES-1: ES-1

Runoff = 72.24 cfs @ 12.16 hrs, Volume= 6.219 af, Depth= 6.19"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
0.677	98	Paved parking, HSG D
0.108	60	Woods, Fair, HSG B
10.159	73	Woods, Fair, HSG C
0.540	79	Woods, Fair, HSG D
0.570	80	>75% Grass cover, Good, HSG D
12.054	75	Weighted Average
11.377		94.38% Pervious Area
0.677		5.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0400	1.87		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.3	100	0.0700	5.37		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
1.6	175	0.1300	1.80		**Shallow Concentrated Flow, SCF2** Woodland Kv= 5.0 fps
2.2	300	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
11.6	1,299	Total			

Summary for Subcatchment ES-2: ES-2

Runoff = 168.02 cfs @ 12.09 hrs, Volume= 12.150 af, Depth= 6.57"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
0.035	98	Paved parking, HSG C
3.499	98	Paved parking, HSG D
16.693	73	Woods, Fair, HSG C
0.878	79	Woods, Fair, HSG D
1.100	80	>75% Grass cover, Good, HSG D
22.205	78	Weighted Average
18.671		84.08% Pervious Area
3.534		15.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.2	100	0.2400	9.94		**Shallow Concentrated Flow, SCF1** Paved Kv= 20.3 fps
0.4	80	0.0250	3.21		**Shallow Concentrated Flow, SCF2** Paved Kv= 20.3 fps
0.8	105	0.2000	2.24		**Shallow Concentrated Flow, SCF3** Woodland Kv= 5.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
4.7	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment ES-3: ES-3

Runoff = 142.85 cfs @ 12.97 hrs, Volume= 29.040 af, Depth= 6.44"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
1.194	98	Paved parking, HSG C
1.791	98	Unconnected pavement, HSG D
18.811	73	Woods, Fair, HSG C
12.540	79	Woods, Fair, HSG D
9.882	74	>75% Grass cover, Good, HSG C
9.882	80	>75% Grass cover, Good, HSG D
54.100	77	Weighted Average
51.115		94.48% Pervious Area
2.985		5.52% Impervious Area
1.791		60.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
3.7	350	0.1000	1.58		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
72.5	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 5.62% Impervious, Inflow Depth = 6.19" for 100-yr event
Inflow = 72.24 cfs @ 12.16 hrs, Volume= 6.219 af
Outflow = 72.24 cfs @ 12.16 hrs, Volume= 6.219 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 15.92% Impervious, Inflow Depth = 6.57" for 100-yr event
Inflow = 168.02 cfs @ 12.09 hrs, Volume= 12.150 af
Outflow = 168.02 cfs @ 12.09 hrs, Volume= 12.150 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 5.52% Impervious, Inflow Depth = 6.44" for 100-yr event
Inflow = 142.85 cfs @ 12.97 hrs, Volume= 29.040 af
Outflow = 142.85 cfs @ 12.97 hrs, Volume= 29.040 af, Atten= 0%, Lag= 0.0 min

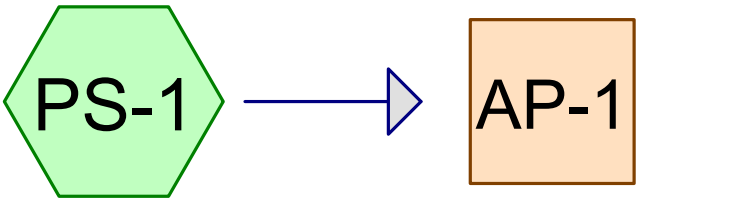
Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

APPENDIX E:
POST-DEVELOPMENT STORMWATER MODELING

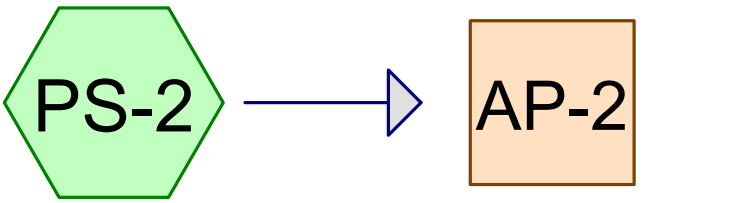
Proposed Conditions HdyroCAD Report

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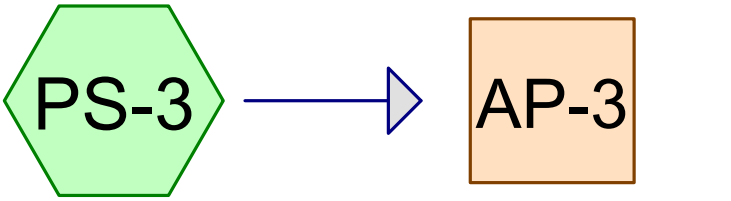
PROPOSED



PS-1 Analysis Point



PS-2 Analysis Point



PS-3 Analysis Point

Subcat Reach Pond Link

Routing Diagram for 3_App E_Post-Development Model
Prepared by LaBella Associates, Printed 5/11/2022
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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	Type III 24-hr		Default	24.00	1	2.78	2
2	10-yr	Type III 24-hr		Default	24.00	1	5.13	2
3	100-yr	Type III 24-hr		Default	24.00	1	9.26	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
5.206	61	>75% Grass cover, Good, HSG B (PS-2)
41.478	74	>75% Grass cover, Good, HSG C (PS-1, PS-2, PS-3)
5.649	80	>75% Grass cover, Good, HSG D (PS-3)
0.267	98	Paved parking, HSG C (PS-1)
2.395	98	Paved parking, HSG D (PS-3)
33.364	73	Woods, Fair, HSG C (PS-1, PS-2, PS-3)
88.359	**74**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
5.206	HSG B	PS-2
75.109	HSG C	PS-1, PS-2, PS-3
8.044	HSG D	PS-3
0.000	Other	
88.359		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	5.206	41.478	5.649	0.000	52.333	>75% Grass cover, Good	PS-1, PS-2, PS-3
0.000	0.000	0.267	2.395	0.000	2.662	Paved parking	PS-1, PS-3
0.000	0.000	33.364	0.000	0.000	33.364	Woods, Fair	PS-1, PS-2, PS-3
0.000	**5.206**	**75.109**	**8.044**	**0.000**	**88.359**	**TOTAL AREA**	

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PS-1: PS-1 Runoff Area=12.054 ac 2.22% Impervious Runoff Depth=0.77"
Flow Length=1,299' Tc=17.5 min CN=74 Runoff=7.03 cfs 0.775 af

Subcatchment PS-2: PS-2 Runoff Area=22.205 ac 0.00% Impervious Runoff Depth=0.64"
Flow Length=780' Tc=6.0 min CN=71 Runoff=14.23 cfs 1.179 af

Subcatchment PS-3: PS-3 Runoff Area=54.100 ac 4.43% Impervious Runoff Depth=0.82"
Flow Length=2,210' Tc=71.4 min CN=75 Runoff=16.77 cfs 3.697 af

Reach AP-1: Analysis Point Inflow=7.03 cfs 0.775 af
Outflow=7.03 cfs 0.775 af

Reach AP-2: Analysis Point Inflow=14.23 cfs 1.179 af
Outflow=14.23 cfs 1.179 af

Reach AP-3: Analysis Point Inflow=16.77 cfs 3.697 af
Outflow=16.77 cfs 3.697 af

Total Runoff Area = 88.359 ac Runoff Volume = 5.651 af Average Runoff Depth = 0.77"
96.99% Pervious = 85.697 ac 3.01% Impervious = 2.662 ac

Summary for Subcatchment PS-1: PS-1

Runoff = 7.03 cfs @ 12.27 hrs, Volume= 0.775 af, Depth= 0.77"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
8.621	74	>75% Grass cover, Good, HSG C
0.267	98	Paved parking, HSG C
3.166	73	Woods, Fair, HSG C
12.054	74	Weighted Average
11.787		97.78% Pervious Area
0.267		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0400	0.23		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 3.41"
0.9	100	0.0700	1.85		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	175	0.1300	2.52		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
1.6	300	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
17.5	1,299	Total			

Summary for Subcatchment PS-2: PS-2

Runoff = 14.23 cfs @ 12.10 hrs, Volume= 1.179 af, Depth= 0.64"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
5.206	61	>75% Grass cover, Good, HSG B
8.845	74	>75% Grass cover, Good, HSG C
8.154	73	Woods, Fair, HSG C
22.205	71	Weighted Average
22.205		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.5	100	0.2400	3.43		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	80	0.0250	1.11		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
0.6	105	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
5.6	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment PS-3: PS-3

Runoff = 16.77 cfs @ 13.02 hrs, Volume= 3.697 af, Depth= 0.82"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.78"

Area (ac)	CN	Description
24.012	74	>75% Grass cover, Good, HSG C
2.395	98	Paved parking, HSG D
5.649	80	>75% Grass cover, Good, HSG D
22.044	73	Woods, Fair, HSG C
54.100	75	Weighted Average
51.705		95.57% Pervious Area
2.395		4.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
2.6	350	0.1000	2.21		**Shallow Concentrated Flow, SCF5** Short Grass Pasture Kv= 7.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
71.4	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 2.22% Impervious, Inflow Depth = 0.77" for 1-yr event
Inflow = 7.03 cfs @ 12.27 hrs, Volume= 0.775 af
Outflow = 7.03 cfs @ 12.27 hrs, Volume= 0.775 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 0.00% Impervious, Inflow Depth = 0.64" for 1-yr event
Inflow = 14.23 cfs @ 12.10 hrs, Volume= 1.179 af
Outflow = 14.23 cfs @ 12.10 hrs, Volume= 1.179 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 4.43% Impervious, Inflow Depth = 0.82" for 1-yr event
Inflow = 16.77 cfs @ 13.02 hrs, Volume= 3.697 af
Outflow = 16.77 cfs @ 13.02 hrs, Volume= 3.697 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PS-1: PS-1 Runoff Area=12.054 ac 2.22% Impervious Runoff Depth=2.47"
Flow Length=1,299' Tc=17.5 min CN=74 Runoff=24.67 cfs 2.479 af

Subcatchment PS-2: PS-2 Runoff Area=22.205 ac 0.00% Impervious Runoff Depth=2.22"
Flow Length=780' Tc=6.0 min CN=71 Runoff=57.02 cfs 4.099 af

Subcatchment PS-3: PS-3 Runoff Area=54.100 ac 4.43% Impervious Runoff Depth=2.56"
Flow Length=2,210' Tc=71.4 min CN=75 Runoff=56.94 cfs 11.519 af

Reach AP-1: Analysis Point Inflow=24.67 cfs 2.479 af
Outflow=24.67 cfs 2.479 af

Reach AP-2: Analysis Point Inflow=57.02 cfs 4.099 af
Outflow=57.02 cfs 4.099 af

Reach AP-3: Analysis Point Inflow=56.94 cfs 11.519 af
Outflow=56.94 cfs 11.519 af

Total Runoff Area = 88.359 ac Runoff Volume = 18.098 af Average Runoff Depth = 2.46"
96.99% Pervious = 85.697 ac 3.01% Impervious = 2.662 ac

Summary for Subcatchment PS-1: PS-1

Runoff = 24.67 cfs @ 12.24 hrs, Volume= 2.479 af, Depth= 2.47"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
8.621	74	>75% Grass cover, Good, HSG C
0.267	98	Paved parking, HSG C
3.166	73	Woods, Fair, HSG C
12.054	74	Weighted Average
11.787		97.78% Pervious Area
0.267		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0400	0.23		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 3.41"
0.9	100	0.0700	1.85		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	175	0.1300	2.52		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
1.6	300	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
17.5	1,299	Total			

Summary for Subcatchment PS-2: PS-2

Runoff = 57.02 cfs @ 12.09 hrs, Volume= 4.099 af, Depth= 2.22"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
5.206	61	>75% Grass cover, Good, HSG B
8.845	74	>75% Grass cover, Good, HSG C
8.154	73	Woods, Fair, HSG C
22.205	71	Weighted Average
22.205		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.5	100	0.2400	3.43		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	80	0.0250	1.11		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
0.6	105	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
5.6	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment PS-3: PS-3

Runoff = 56.94 cfs @ 12.94 hrs, Volume= 11.519 af, Depth= 2.56"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=5.13"

Area (ac)	CN	Description
24.012	74	>75% Grass cover, Good, HSG C
2.395	98	Paved parking, HSG D
5.649	80	>75% Grass cover, Good, HSG D
22.044	73	Woods, Fair, HSG C
54.100	75	Weighted Average
51.705		95.57% Pervious Area
2.395		4.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
2.6	350	0.1000	2.21		**Shallow Concentrated Flow, SCF5** Short Grass Pasture Kv= 7.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
71.4	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 2.22% Impervious, Inflow Depth = 2.47" for 10-yr event
Inflow = 24.67 cfs @ 12.24 hrs, Volume= 2.479 af
Outflow = 24.67 cfs @ 12.24 hrs, Volume= 2.479 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 0.00% Impervious, Inflow Depth = 2.22" for 10-yr event
Inflow = 57.02 cfs @ 12.09 hrs, Volume= 4.099 af
Outflow = 57.02 cfs @ 12.09 hrs, Volume= 4.099 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 4.43% Impervious, Inflow Depth = 2.56" for 10-yr event
Inflow = 56.94 cfs @ 12.94 hrs, Volume= 11.519 af
Outflow = 56.94 cfs @ 12.94 hrs, Volume= 11.519 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PS-1: PS-1 Runoff Area=12.054 ac 2.22% Impervious Runoff Depth=6.07"
Flow Length=1,299' Tc=17.5 min CN=74 Runoff=60.86 cfs 6.094 af

Subcatchment PS-2: PS-2 Runoff Area=22.205 ac 0.00% Impervious Runoff Depth=5.69"
Flow Length=780' Tc=6.0 min CN=71 Runoff=147.81 cfs 10.529 af

Subcatchment PS-3: PS-3 Runoff Area=54.100 ac 4.43% Impervious Runoff Depth=6.19"
Flow Length=2,210' Tc=71.4 min CN=75 Runoff=138.90 cfs 27.914 af

Reach AP-1: Analysis Point Inflow=60.86 cfs 6.094 af
Outflow=60.86 cfs 6.094 af

Reach AP-2: Analysis Point Inflow=147.81 cfs 10.529 af
Outflow=147.81 cfs 10.529 af

Reach AP-3: Analysis Point Inflow=138.90 cfs 27.914 af
Outflow=138.90 cfs 27.914 af

Total Runoff Area = 88.359 ac Runoff Volume = 44.537 af Average Runoff Depth = 6.05"
96.99% Pervious = 85.697 ac 3.01% Impervious = 2.662 ac

Summary for Subcatchment PS-1: PS-1

Runoff = 60.86 cfs @ 12.23 hrs, Volume= 6.094 af, Depth= 6.07"
Routed to Reach AP-1 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
8.621	74	>75% Grass cover, Good, HSG C
0.267	98	Paved parking, HSG C
3.166	73	Woods, Fair, HSG C
12.054	74	Weighted Average
11.787		97.78% Pervious Area
0.267		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0400	0.23		**Sheet Flow, SF** Grass: Short n= 0.150 P2= 3.41"
0.9	100	0.0700	1.85		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	175	0.1300	2.52		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
1.6	300	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
1.6	191	0.1500	1.94		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
0.2	40	0.3700	3.04		**Shallow Concentrated Flow, SCF5** Woodland Kv= 5.0 fps
3.3	223	0.0500	1.12		**Shallow Concentrated Flow, SCF6** Woodland Kv= 5.0 fps
1.5	170	0.1500	1.94		**Shallow Concentrated Flow, SCF7** Woodland Kv= 5.0 fps
17.5	1,299	Total			

Summary for Subcatchment PS-2: PS-2

Runoff = 147.81 cfs @ 12.09 hrs, Volume= 10.529 af, Depth= 5.69"
Routed to Reach AP-2 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
5.206	61	>75% Grass cover, Good, HSG B
8.845	74	>75% Grass cover, Good, HSG C
8.154	73	Woods, Fair, HSG C
22.205	71	Weighted Average
22.205		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	100	0.2400	3.84		**Sheet Flow, SF** Smooth surfaces n= 0.011 P2= 3.41"
0.5	100	0.2400	3.43		**Shallow Concentrated Flow, SCF1** Short Grass Pasture Kv= 7.0 fps
1.2	80	0.0250	1.11		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
0.6	105	0.2000	3.13		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
2.9	395	0.2000	2.24		**Shallow Concentrated Flow, SCF4** Woodland Kv= 5.0 fps
5.6	780	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment PS-3: PS-3

Runoff = 138.90 cfs @ 12.93 hrs, Volume= 27.914 af, Depth= 6.19"
Routed to Reach AP-3 : Analysis Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=9.26"

Area (ac)	CN	Description
24.012	74	>75% Grass cover, Good, HSG C
2.395	98	Paved parking, HSG D
5.649	80	>75% Grass cover, Good, HSG D
22.044	73	Woods, Fair, HSG C
54.100	75	Weighted Average
51.705		95.57% Pervious Area
2.395		4.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.2	100	0.0200	0.05		**Sheet Flow, SF** Woods: Dense underbrush n= 0.800 P2= 3.41"
3.8	160	0.0200	0.71		**Shallow Concentrated Flow, SCF1** Woodland Kv= 5.0 fps
9.0	465	0.0150	0.86		**Shallow Concentrated Flow, SCF2** Short Grass Pasture Kv= 7.0 fps
8.7	365	0.0100	0.70		**Shallow Concentrated Flow, SCF3** Short Grass Pasture Kv= 7.0 fps
8.9	460	0.0150	0.86		**Shallow Concentrated Flow, SCF4** Short Grass Pasture Kv= 7.0 fps
2.6	350	0.1000	2.21		**Shallow Concentrated Flow, SCF5** Short Grass Pasture Kv= 7.0 fps
2.2	310	0.0250	2.37		**Shallow Concentrated Flow, SCF6** Grassed Waterway Kv= 15.0 fps
71.4	2,210	Total			

Summary for Reach AP-1: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 12.054 ac, 2.22% Impervious, Inflow Depth = 6.07" for 100-yr event
Inflow = 60.86 cfs @ 12.23 hrs, Volume= 6.094 af
Outflow = 60.86 cfs @ 12.23 hrs, Volume= 6.094 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-2: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 22.205 ac, 0.00% Impervious, Inflow Depth = 5.69" for 100-yr event
Inflow = 147.81 cfs @ 12.09 hrs, Volume= 10.529 af
Outflow = 147.81 cfs @ 12.09 hrs, Volume= 10.529 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Reach AP-3: Analysis Point

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 54.100 ac, 4.43% Impervious, Inflow Depth = 6.19" for 100-yr event
Inflow = 138.90 cfs @ 12.93 hrs, Volume= 27.914 af
Outflow = 138.90 cfs @ 12.93 hrs, Volume= 27.914 af, Atten= 0%, Lag= 0.0 min

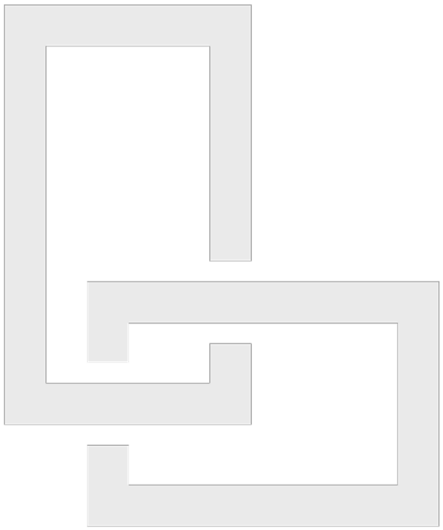
Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

APPENDIX F:
SWPPP INSPECTION REPORT
(SAMPLE FORM)

LaBella
Powered by partnership.

Prepared by:
Choose an item.
Choose an item.
Choose an item.
Choose an item.

SWPPP INSPECTION REPORT NUMBER XX
YSG SOLAR
BRIARCLIFF SOLAR PROJECT
354 SCARBOROGH ROAD, VILLAGE OF BRIARCLIFF MANOR, WESTCHESTER COUNTY, NY



Performed: 9/29/2021 @ 12:00 AM
Report Issued: 9/29/2021

Status: SATISFACTORY (All erosion control measures are installed and in working order)

Qualified Inspector (name and title)	Qualified Professional (name and title)
Date	Date
Signature	Signature

NYSDEC Documentation and SWPPP Forms

NYSDEC Issued Permit Identification Number: NYRXXXXXX

5-Acre Waiver: N/A (No 5-acre waiver for this project - Contractor not authorized to disturb >5 acres)

303d Status: Project does not directly discharge to a 303d impaired waterbody

Number of Inspections required: Monthly

Location of SWPPP and Site Log Book on-site:

YES	NO	N/A	CONTAINED IN SITE LOG BOOK?
☐	☐	☐	Preconstruction Assessment
☐	☐	☐	NOI Acknowledgement letter
☐	☐	☐	Copy of eNOI
☐	☐	☐	Owner / Operator Certification
☐	☐	☐	SWPPP Preparer Certification
☐	☐	☐	MS4 SWPPP Acceptance Form
☐	☐	☐	Contractor and Subcontractor Certifications
☐	☐	☐	SPDES General Permit
☐	☐	☐	5 Acre Waiver
☐	☐	☐	NOT

Comments:

Site Conditions

Approximate Disturbed Area at Time of Inspection: XX Acres			
Allowable Disturbed Area Per NOI and/or 5-acre waiver: XX Acres			
Current Status of Construction: Description			
Weather Conditions: Conditions		**Temperature:** XX °F	**Soil Conditions:** Choose an item.

Description of Discharge Point/Natural Surface Waterbody	Condition of Runoff	Sediment Discharge Noted Y / N	Corrective Action

Erosion and Sediment Control Deficiencies and Corrective Actions

SWPPP Component	Functional Y / N / NA	Deficiency (See Checklist and/or note)	Deficiency Location	Initial Date	Corrective Action	Corrected Y / N
General Site Conditions						
Silt Fence						
Stabilized Construction Access						
Compost Filter Sock						
Inlet Protection						
Soil Stockpiles						
Temporary Stabilization						
Permanent Stabilization						
Dewatering Operations						
Stone Check Dams						
Rock Outlet Protection						
Sediment Traps and Basins						
Temporary Stream Crossing						
Pavement Sweeping						
Concrete Washout						
Filter Strips						
Slope Protection Measures						
Temporary Swales and Berms						
Temporary Parking Areas						
Fiber Roll						
Permanent Turf Reinforcement						
Water Bars						
Flow Diffusers						
Other:						

Stormwater Management Practice Deficiencies and Corrective Actions

Practice	Sign Y / N	Current Phase of Construction	Items Not in Conformance with SWPPP	Deficiency Location	Initial Date	Corrective Action	Corrected Y / N
Practice 1:							
Practice 2:							
Practice 3:							
Practice 4:							
Practice 5:							
Practice 6:							

SWPPP Inspection Checklist and Deficiency Numbers

1	General Site Conditions
1A	Adjoining properties are not protected from erosion and sediment deposition
1B	Downstream waterways are not protected from erosion and sediment deposition
1C	All E&SC measures have not been constructed as detailed in the SWPPP
1D	Dust is not adequately controlled
1E	Storage areas contain spills, leaks, or harmful materials
1F	Garbage and waste building materials are not being managed properly
1G	Temporary control measures that are no longer needed have not been removed
1H	Permanent SWM practices not constructed per plans

2	Silt Fence
2A	Silt fence not installed on contour
2B	Silt fence not across conveyance channels
2C	Silt fence not at least 10 feet from toe of slope
2D	Silt fence not at appropriate spacing intervals based on slope
2E	Silt fence ends are not wrapped for continuous support
2F	Silt fence fabric is loose or contains rips or frayed areas
2G	Silt fence posts are unstable
2H	Silt fence is not buried 6 inches minimum
2I	Silt fence contains bulges or material buildup

3	Stabilized Construction Access
3A	Temporary construction access not installed or not per NYS standards
3B	Other access areas have not been stabilized immediately as work takes place
3C	Sediment has tracked onto public streets and is not being cleaned daily
3D	Stone is not clean enough to effectively remove mud from vehicles
3E	Adequate drainage not provided to prevent ponding

4	Compost Filter Sock
4A	Filter sock not installed on contour
4B	Filter sock terminal ends do not extended 8' upslope at 45˚ angle
4C	Inappropriate diameter based on slope steepness and slope length
4D	Filter sock not anchored at 10' intervals
4E	More than 50% sediment has built up

5	Inlet Protection
5A	Inlet protection not installed or installation is not per SWPPP or Blue Book specifications
5B	Incorrect type(s) of inlet control installed or is inappropriate for location
5C	Drainage area for inlet protection is greater than 1 acre
5D	Sediment has not been removed when 50% of storage volume has been achieved
5E	A 2" x 4" wood frame and wood posts has not been installed
5F	Filter fabric is not buried a minimum of 1 foot below ground or secured to frame/posts
5G	Posts are unstable, fabric is loose, and contains rips or frayed areas
5H	Post spacing exceeds maximum 3' spacing

6	Soil Stockpiles
6A	No sediment controls at downhill slope

7	Temporary Stabilization
7A	Areas inactive for 14 days or more have not been stabilized (If <5 acres disturbed)
7B	Areas inactive for 7 days or more have not been stabilized (If >5 acres disturbed or 303d)
7C	Soil preparation has not been applied as specified in the SWPPP or the Blue Book
7D	Rolled EC products specified for steep slopes or channels have not been installed

8	Permanent Stabilization
8A	Lawn in disturbed areas has not been established to 80% germination
8B	Soil preparation has not been applied as specified in the SWPPP or the Blue Book
8C	Rolled EC products specified for steep slopes or channels have not been installed

9	Dewatering Operations
9A	Upstream and downstream berms are not installed or functioning poorly
9B	Clean water from upstream pool is not being pumped to the downstream pool
9C	Sediment laden water from work area is not being discharged to a silt-trapping device
9D	Groundwater from excavations managed improperly (No sumps/sediment control)

10	Stone Check Dam
10A	Not installed per standards
10B	Channel is unstable (flow is eroding soil underneath or around the structure)
10C	Check dam in poor condition (rocks not in place or lack of geotextile fabric)
10D	Sediment needs to be removed

11	Rock Outlet Protection
11A	Rock outlet protection not installed per plan or Blue Book
11B	Rock outlet protection not installed concurrently with pipe installation

12	Sediment Traps and Basins
12A	Outlet structure constructed improperly
12B	Geotextile fabric has not been placed beneath rock fill
12C	Depth of sediment in basin has exceeded allowable threshold
12D	Basin and outlet structure not constructed per the approved plan
12E	Basin side slopes are not stabilized with seed/mulch
12F	More than 50% capacity has built up

13	Temporary Stream Crossing
13A	Construction crossings at concentrated flow areas have not been culverted

14	Pavement Sweeping
14A	Pavement has not been swept daily and sediment has traveled into road

Photo Log

Photo 1 *Date – Item in need of repair or maintenance:*	***Photo 1A*** *Date – Corrected Action:*
Photo 2 *Date – Item in need of repair or maintenance:*	***Photo 2A*** *Date – Corrected Action:*
Photo 3 *Date – Item in need of repair or maintenance:*	***Photo 3A*** *Date – Corrected Action:*

Photo Log (continued)

Photo 4	***Photo 4A***
Date – Item in need of repair or maintenance:	*Date – Corrected Action:*
Photo 5	***Photo 5A***
Date – Item in need of repair or maintenance:	*Date – Corrected Action:*
Photo 6	***Photo 6A***
Date – Item in need of repair or maintenance:	*Date – Corrected Action:*

APPENDIX G:
POST-CONSTRUCTION INSPECTIONS AND MAINTENANCE

NYS Maintenance Guidance

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Disconnection and Sheetflow (Rooftop Disconnection, Filter Strip, Riparian Buffer)

Table 2.4.1 D&S Drainage Area

Problem (Check if Present)	Follow-Up Actions
 ☐ Changes in flow; more runoff; runoff bypassing the practice	☐ For rooftop areas, make sure downspouts are still disconnected and conveying water into the treatment area. ☐ Look for and remove any "dams" of sediment and grass clippings that prevent water from entering the treatment area as sheet flow. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Changes to drainage area size or amount of runoff due to construction, tillage, etc.
 ☐ For parking lots in the drainage area—sediment, grass clippings, or other debris has accumulated at pavement edge.	☐ For small, isolated amounts of debris, sweep up by hand and dispose properly so that it will not be exposed to runoff. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Sediment is widespread and cannot be removed by manual sweeping.
 ☐ For parking lots in the drainage area—dips or damage at pavement edge caused flow to concentrate.	☐ Kick-Out to Level 2 Inspection: This will likely require special expertise to diagnose and fix pavement edge.

Table 2.4.2 D&S Level Spreader/Energy Dissipator		
Problem (Check if Present)		**Follow-Up Actions**
	☐ Debris and/or sediment accumulated behind or around the level spreader.	☐ Remove debris and sediment by hand and ensure that the area behind the level spreader is relatively flat. Too much debris and sediment can cause runoff to bypass the level spreader structure. ☐ Other:
	☐ Sinking, cracking, sloughing, or other structural problem makes the energy dissipator no longer level.	☐ For stone/gravel spreaders, add new material or rake out as needed to make it even. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Structural issues that cannot be easily fixed by hand

Table 2.4.3 D&S Treatment Area	
Problem (Check if Present)	**Follow-Up Actions**
☐ Trash and/or debris in the treatment area	☐ Collect trash/debris and dispose of properly.
 ☐ Grass filter strip has grown very tall, to the point that runoff cannot easily enter or is getting concentrated.	☐ Mow filter strip twice a year or more frequently in a residential yard.
☐ Sparse vegetation or bare spots	☐ For grassy areas, add topsoil (as needed), grass seed mulch, and water during the growing season to re-establish consistent vegetation cover. ☐ Other:
 ☐ Rills or gullies are forming in treatment area where flow has become concentrated	☐ For minor rills, fill in with soil, compact, and add seed and straw to establish vegetation. ☐ Other: ☐ Kick-Out to Level 2 Inspection: Rills are more than 2" to 3" deep and require more than just hand raking and re-seeding.

APPENDIX H:
NYSDEC "DEEP-RIPPING AND DECOMPACTION," APRIL 2008

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New York State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water

Deep-Ripping and Decompaction

April 2008

Document Prepared by:

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(Formerly with the Division of Agricultural Protection and Development Services,
NYS Dept. of Agriculture & Markets)

New York State
Department of Environmental Conservation

Alternative Stormwater Management
Deep-Ripping and Decompaction

Description

The two-phase practice of 1) "Deep Ripping;" and 2) "Decompaction" (deep subsoiling), of the soil material as a step in the cleanup and restoration/landscaping of a construction site, helps mitigate the physically induced impacts of soil compression; i.e.: soil compaction or the substantial increase in the bulk density of the soil material.

Deep Ripping and Decompaction are key factors which help in restoring soil pore space and permeability for water infiltration. Conversely, the physical actions of cut-and-fill work, land grading, the ongoing movement of construction equipment and the transport of building materials throughout a site alter the architecture and structure of the soil, resulting in: the mixing of layers (horizons) of soil materials, compression of those materials and diminished soil porosity which, if left unchecked, severely impairs the soil's water holding capacity and vertical drainage (rainfall infiltration), from the surface downward.

In a humid climate region, compaction damage on a site is virtually guaranteed over the duration of a project. Soil in very moist to wet condition when compacted, will have severely reduced permeability. Figure 1 displays the early stage of the deep-ripping phase (Note that all topsoil was stripped prior to construction access, and it remains stockpiled until the next phase – decompaction – is complete). A heavy-duty tractor is pulling a three-shank ripper on the first of several series of incrementally deepening passes through the construction access corridor's densely compressed subsoil material. Figure 2 illustrates the approximate volumetric composition of a loam surface soil when conditions are good for plant growth, with adequate natural pore space for fluctuating moisture conditions.



Fig. 1. A typical deep ripping phase of this practice, during the first in a series of progressively deeper "rips" through severely compressed subsoil.

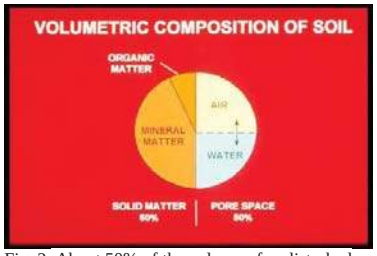


Fig. 2. About 50% of the volume of undisturbed loam surface soil is pore space, when soil is in good condition for plant growth. Brady, 2002.

Recommended Application of Practice

The objective of Deep Ripping and Decompaction is to effectively fracture (vertically and laterallly) through the thickness of the physically compressed subsoil material (see Figure 3), restoring soil porosity and permeability and aiding infiltration to help reduce runoff. Together with topsoil stripping, the "two-phase" practice of Deep Ripping and Decompaction first became established as a "best management practice" through ongoing success on commercial farmlands affected by heavy utility construction right-of-way projects (transmission pipelines and large power lines).



Fig. 3. Construction site with significant compaction of the deep basal till subsoil extends 24 inches below this exposed cut-and-fill work surface.

Soil permeability, soil drainage and cropland productivity were restored. For broader construction application, the two-phase practice of Deep Ripping and Decompaction is best adapted to areas impacted with significant soil compaction, on contiguous open portions of large construction sites and inside long, open construction corridors used as temporary access over the duration of construction. Each mitigation area should have minimal above-and-below-ground obstructions for the easy avoidance and maneuvering of a large tractor and ripping/decompacting implements. Conversely, the complete two-phase practice is not recommended in congested or obstructed areas due to the limitations on tractor and implement movement.

Benefits

Aggressive "deep ripping" through the compressed thickness of exposed subsoil before the replacement/respreading of the topsoil layer, followed by "decompaction," i.e.: "sub-soiling," through the restored topsoil layer down into the subsoil, offers the following benefits:

- Increases the project (larger size) area's direct surface infiltration of rainfall by providing the open site's mitigated soil condition and lowers the demand on concentrated runoff control structures
- Enhances direct groundwater recharge through greater dispersion across and through a broader surface than afforded by some runoff-control structural measures
- Decreases runoff volume generated and provides hydrologic source control
- May be planned for application in feasible open locations either alone or in

conjunction with plans for structural practices (e.g., subsurface drain line or infiltration basin) serving the same or contiguous areas

- Promotes successful long-term revegetation by restoring soil permeability, drainage and water holding capacity for healthy (rather than restricted) root-system development of trees, shrubs and deep rooted ground cover, minimizing plant drowning during wet periods and burnout during dry periods.

Feasibility / Limitations

The effectiveness of Deep Ripping and Decompaction is governed mostly by site factors such as: the original (undisturbed) soil's hydrologic characteristics; the general slope; local weather/timing (soil moisture) for implementation; the space-related freedom of equipment/implement maneuverability (noted above in **Recommended Application of Practice**), and by the proper selection and operation of tractor and implements (explained below in **Design Guidance**). The more notable site-related factors include:

Soil
In the undisturbed condition, each identified soil type comprising a site is grouped into one of four categories of soil hydrology, Hydrologic Soil Group A, B, C or D, determined primarily by a range of characteristics including soil texture, drainage capability when thoroughly wet, and depth to water table. The natural rates of infiltration and transmission of soil-water through the undisturbed soil layers for Group A is "high" with a low runoff potential while soils in Group B are moderate in infiltration and the transmission of soil-water with a moderate runoff potential, depending somewhat on slope. Soils in Group C have slow rates of infiltration and transmission of soil-water and a moderately high runoff potential influenced by soil texture and slope; while soils in Group D have exceptionally slow rates of infiltration and transmission of soil-water, and high runoff potential.

In Figure 4, the profile displays the undisturbed horizons of a soil in Hydrologic Soil Group C and the naturally slow rate of infiltration through the subsoil. The slow rate of infiltration begins immediately below the topsoil horizon (30 cm), due to the limited amount of macro pores, e.g.: natural subsoil fractures, worm holes and root channels. Infiltration after the construction-induced mixing and compression of such subsoil material is virtually absent; but can be restored back to this natural level with the two-phase practice of deep ripping and decompaction, followed by the permanent establishment of an appropriate, deep taproot

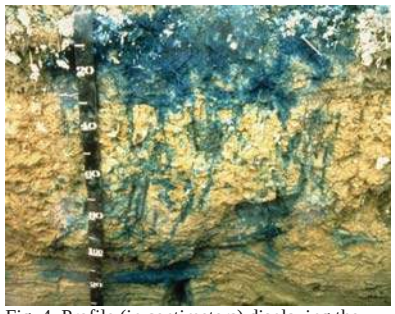


Fig. 4. Profile (in centimeters) displaying the infiltration test result of the natural undisturbed horizons of a soil in Hydrologic Soil Group C.

lawn/ground cover to help maintain the restored subsoil structure. Infiltration after construction-induced mixing and compression of such subsoil material can be notably rehabilitated with the Deep Ripping and Decompaction practice, which prepares the site for the appropriate long-term lawn/ground cover mix including deep taproot plants such as clover, fescue or trefoil, etc. needed for all rehabilitated soils.

Generally, soils in Hydrologic Soil Groups A and B, which respectively may include deep, well-drained, sandy-gravelly materials or deep, moderately well-drained basal till materials, are among the easier ones to restore permeability and infiltration, by deep ripping and decompaction. Among the many different soils in Hydrologic Soil Group C are those unique glacial tills having a natural fragipan zone, beginning about 12 to 18 inches (30 – 45cm), below surface. Although soils in Hydrologic Soil Group C do require a somewhat more carefully applied level of the Deep Ripping and Decompaction practice, it can greatly benefit such affected areas by reducing the runoff and fostering infiltration to a level equal to that of pre-disturbance.

Soils in Hydrologic Soil Group D typically have a permanent high water table close to the surface, influenced by a clay or other highly impervious layer of material. In many locations with clay subsoil material, the bulk density is so naturally high that heavy trafficking has little or no added impact on infiltration; and structural runoff control practices rather than Deep Ripping and Decompaction should be considered.

The information about Hydrologic Soil Groups is merely a general guideline. Site-specific data such as limited depths of cut-and-fill grading with minimal removal or translocation of the inherent subsoil materials (as analyzed in the county soil survey) or, conversely, the excavation and translocation of deeper, unconsolidated substratum or consolidated bedrock materials (unlike the analyzed subsoil horizons' materials referred to in the county soil survey) should always be taken into account.

Sites made up with significant quantities of large rocks, or having a very shallow depth to bedrock, are not conducive to deep ripping and decompation (subsoiling); and other measures may be more practical.

Slope
The two-phase application of 1) deep ripping and 2) decompaction (deep subsoiling), is most practical on flat, gentle and moderate slopes. In some situations, such as but not limited to temporary construction access corridors, inclusion areas that are moderately steep along a project's otherwise gentle or moderate slope may also be deep ripped and decompacted. For limited instances of moderate steepness on other projects, however, the post-construction land use and the relative alignment of the potential ripping and decompaction work in relation to the lay of the slope should be reviewed for safety and practicality. In broad construction areas predominated by moderately steep or steep slopes, the practice is generally not used.

Local Weather/Timing/Soil Moisture
Effective fracturing of compressed subsoil material from the exposed work surface, laterally and vertically down through the affected zone is achieved only when the soil material is moderately dry to moderately moist. Neither one of the two-phases, deep ripping nor decompaction (deep

subsoiling), can be effectively conducted when the soil material (subsoil or replaced topsoil) is in either a “plastic” or “liquid” state of soil consistency. Pulling the respective implements legs through the soil when it is overly moist only results in the “slicing and smearing” of the material or added “squeezing and compression” instead of the necessary fracturing. Ample drying time is needed for a “rippable” soil condition not merely in the material close to the surface, but throughout the material located down to the bottom of the physically compressed zone of the subsoil.

The “poor man’s Atterberg field test” for soil plasticity is a simple “hand-roll” method used for quick, on-site determination of whether or not the moisture level of the affected soil material is low enough for: effective deep ripping of subsoil; respreading of topsoil in a friable state; and final decompaction (deep subsoiling). Using a sample of soil material obtained from the planned bottom depth of ripping, e.g.: 20 - 24 inches below exposed subsoil surface, the sample is hand rolled between the palms down to a 1/8-inch diameter thread. (Use the same test for stored topsoil material before respreading on the site.) If the respective soil sample crumbles apart in segments no greater than 3/8 of an inch long, by the time it is rolled down to 1/8 inch diameter, it is low enough in moisture for deep ripping (or topsoil replacement), and decompaction. Conversely, as shown in Figure 5, if the rolled sample stretches out in increments greater than 3/8 of an inch long before crumbling, it is in a “plastic” state of soil consistency and is too wet for subsoil ripping (as well as topsoil replacement) and final decompaction.



Fig. 5. Augered from a depth of 19 inches below the surface of the replaced topsoil, this subsoil sample was hand rolled to a 1/8-inch diameter. The test shows the soil at this site stretches out too far without crumbling; it indicates the material is in a plastic state of consistence, too wet for final decompaction (deep subsoiling) at this time.

Design Guidance

Beyond the above-noted site factors, a vital requirement for the effective Deep Ripping and Decompaction (deep subsoiling), is implementing the practice in its distinct, two-phase process:

1) Deep rip the affected thickness of exposed subsoil material (see Figure 10 and 11), aggressively fracturing it before the protected topsoil is reapplied on the site (see Figure 12); and

2) Decompact (deep subsoil), simultaneously through the restored topsoil layer and the upper half of the affected subsoil (Figure 13). The second phase, “decompaction,” mitigates the partial recompaction which occurs during the heavy process of topsoil spreading/grading. Prior to deep ripping and decompacting the site, all construction activity, including construction equipment and material storage, site cleanup and trafficking (Figure 14), should be finished; and the site closed off to further disturbance. Likewise, once the practice is underway and the area’s soil permeability and

rainfall infiltration are being restored, a policy limiting all further traffic to permanent travel lanes is maintained.

The other critical elements, outlined below, are: using the proper implements (deep, heavy-duty rippers and subsoilers), and ample pulling-power equipment (tractors); and conducting the practice at the appropriate speed, depth and pattern(s) of movement.

Note that an appropriate plan for the separate practice of establishing a healthy perennial ground cover, with deep rooting to help maintain the restored soil structure, should be developed in advance. This may require the assistance of an agronomist or landscape horticulturist.

Implements

Avoid the use of all undersize implements. The small-to-medium, light-duty tool will, at best, only “scarify” the uppermost surface portion of the mass of compacted subsoil material. The term “chisel plow” is commonly but incorrectly applied to a broad range of implements. While a few may be adapted for the moderate subsoiling of non-impacted soils, the majority are less durable and used for only lighter land-fitting (see Figure 6).



Fig. 6. A light duty chisel implement, not adequate for either the deep ripping or decompaction (deep subsoiling) phase.



Fig. 7. One of several variations of an agricultural ripper. This unit has long, rugged shanks mounted on a steel V-frame for deep, aggressive fracturing through Phase 1.

Use a “heavy duty” agricultural-grade, deep ripper (see Figures 7,9,10 and 11) for the first phase: the lateral and vertical fracturing of the mass of exposed and compressed subsoil, down and through, to the bottom of impact, prior to the replacement of the topsoil layer. (Any oversize rocks which are uplifted to the subsoil surface during the deep ripping phase are picked and removed.) Like the heavy-duty class of implement for the first phase, the decompaction (deep subsoiling) of Phase 2 is conducted with the heavy-duty version of the deep subsoiler. More preferable is the angled-leg variety of deep subsoiler (shown in Figures 8 and 13). It minimizes the inversion of the subsoil and topsoil layers while laterally and vertically fracturing the upper half of the previously ripped subsoil layer and all of the topsoil layer by delivering a momentary, wave-like “lifting and shattering” action up through the soil layers as it is pulled.

Pulling-Power of Equipment
Use the following rule of thumb for tractor horsepower (hp) whenever deep ripping and decompacting a significantly impacted site: For both types of implement, have at least 40 hp of tractor pull available for each mounted shank/ leg.

Using the examples of a 3-shank and a 5-shank implement, the respective tractors should have 120 and 200 hp available for fracturing down to the final depth of 20-to-24 inches per phase. Final depth for the deep ripping in Phase 1 is achieved incrementally by a progressive series of passes (see Depth and Patterns of Movement, below); while for Phase 2, the full operating depth of the deep subsoiler is applied from the beginning.

The operating speed for pulling both types of implement should not exceed 2 to 3 mph. At this slow and managed rate of operating speed, maximum functional performance is sustained by the tractor and the implement performing the soil fracturing. Referring to Figure 8, the implement is the 6-leg version of the deep angled-leg subsoiler. Its two outside legs are "chained up" so that only four legs will be engaged (at the maximum depth), requiring no less than 160 hp, (rather than 240 hp) of pull. The 4-wheel drive, articulated-frame tractor in Figure 8 is 174 hp. It will be decompacting this unobstructed, former construction access area simultaneously through 11 inches of replaced topsoil and the upper 12 inches of the previously deep-ripped subsoil. In constricted areas of Phase 1) Deep Ripping, a medium-size tractor with adequate hp, such as the one in Figure 9 pulling a 3-shank deep ripper, may be more maneuverable.


Fig. 8. A deep, angled-leg subsoiler, ideal for Phase 2 decompaction of after the topsoil layer is graded on top of the ripped subsoil.


Fig. 9. This medium tractor is pulling a 3-shank deep ripper. The severely compacted construction access corridor is narrow, and the 120 hp tractor is more maneuverable for Phase 1 deep ripping (subsoil fracturing), here.

Some industrial-grade variations of ripping implements are attached to power graders and bulldozers. Although highly durable, they are generally not recommended. Typically, the shanks or "teeth" of these rippers are too short and stout; and they are mounted too far apart to achieve the well-distributed type of lateral and vertical fracturing of the soil materials necessary to restore soil permeability and infiltration. In addition, the power graders and bulldozers, as pullers, are far less maneuverable for turns and patterns than the tractor.

Depth and Patterns of Movement
As previously noted both Phase 1 Deep Ripping through significantly compressed, exposed subsoil and Phase 2 Decompaction (deep subsoiling) through the replaced topsoil and upper subsoil need to be performed at maximum capable depth of each implement. With an implement's guide wheels attached, some have a "normal" maximum operating depth of 18 inches, while others may go deeper. In many situations, however, the tractor/implement operator must first remove the guide wheels and other non essential elements from the implement. This adapts the ripper or the deep subsoiler for skillful pulling with its frame only a few inches above surface, while the shanks or legs, fracture the soil material 20-to-24 inches deep.

There may be construction sites where the depth of the exposed subsoil's compression is moderate, e.g.: 12 inches, rather than deep. This can be verified by using a ¾ inch cone penetrometer and a shovel to test the subsoil for its level of compaction, incrementally, every three inches of increasing depth. Once the full thickness of the subsoil's compacted zone is finally "pieced" and there is a significant drop in the psi measurements of the soil penetrometer, the depth/thickness of compaction is determined. This is repeated at several representative locations of the construction site. If the thickness of the site's subsoil compaction is verified as, for example, ten inches, then the Phase 1 Deep Ripping can be correspondingly reduced to the implement's minimum operable depth of 12 inches. However, the Phase 2 simultaneous Decompation (subsoiling) of an 11 inch thick layer of replaced topsoil and the upper subsoil should run at the subsoiling implements full operating depth.


Fig. 10. An early pass with a 3-shank deep ripper penetrating only 8 inches into this worksite's severely compressed subsoil.


Fig. 11. A repeat run of the 3-shank ripper along the same patterned pass area as Fig. 9; here, incrementally reaching 18 of the needed 22 inches of subsoil fracture.

Typically, three separate series (patterns) are used for both the Phase 1 Deep Ripping and the Phase 2 Decompaction on significantly compacted sites. For Phase 1, each series begins with a moderate depth of rip and, by repeat-pass, continues until full depth is reached. Phase 2 applies the full depth of Decompation (subsoiling), from the beginning.

Every separate series (pattern) consists of parallel, forward-and-return runs, with each progressive

pass of the implement's legs or shanks evenly staggered between those from the previous pass. This compensates for the shank or leg-spacing on the implement, e.g., with 24-to-30 inches between each shank or leg. The staggered return pass ensures lateral and vertical fracturing actuated every 12 to 15 inches across the densely compressed soil mass.

Large, Unobstructed Areas
For larger easy areas, use the standard patterns of movement:

- The first series (pattern) of passes is applied lengthwise, parallel with the longest spread of the site; gradually progressing across the site's width, with each successive pass.

- The second series runs obliquely, crossing the first series at an angle of about 45 degrees.

- The third series runs at right angle (or 90 degrees), to the first series to complete the fracturing and shattering on severely compacted sites, and avoid leaving large unbroken blocks of compressed soil material. (In certain instances, the third series may be optional, depending on how thoroughly the first two series loosen the material and eliminate large chunks/blocks of material as verified by tests with a ¾-inch cone penetrometer.)



Fig. 12. Moderately dry topsoil is being replaced on the affected site now that Phase 1 deep ripping of the compressed subsoil is complete.



Fig. 13. The same deep, angled-leg subsoiler shown in Fig. 7 is engaged at maximum depth for Phase 2, decompaction (deep soiling), of the replaced topsoil and the upper subsoil materials.

Corridors
In long corridors of limited width and less maneuverability than larger sites, e.g.: along compacted areas used as temporary construction access, a modified series of pattern passes are used.

- First, apply the same initial lengthwise, parallel series of passes described above.

- A second series of passes makes a broad "S" shaped pattern of rips, continually and gradually alternating the "S" curves between opposite edges inside the compacted corridor.

- The third and final series again uses the broad, alternating S pattern, but it is "flip-flopped" to continually cross the previous S pattern along the corridor's centerline. This final series of the S pattern curves back along the edge areas skipped by the second series.

Maintenance and Cost

Once the two-phase practice of Deep Ripping and Decompation is completed, two items are essential for maintaining a site's soil porosity and permeability for infiltration. They are: planting and maintaining the appropriate ground cover with deep roots to maintain the soil structure (see Figure 15); and keeping the site free of traffic or other weight loads.

Note that site-specific choice of an appropriate vegetative ground-cover seed mix, including the proper seeding ratio of one or more perennial species with a deep taproot system and the proper amount of lime and soil nutrients (fertilizer mix) adapted to the soil-needs, are basic to the final practice of landscaping, i.e: surface tillage, seeding/planting/fertilizing and culti-packing or mulching is applied. The "maintenance" of an effectively deep-ripped and decompacted area is generally limited to the successful perennial (long-term) landscape ground cover; as long as no weight-bearing force of soil compaction is applied.



Fig. 14. The severely compacted soil of a temporary construction yard used daily by heavy equipment for four months; shown before deep ripping, topsoil replacement, and decompaction.



Fig. 15. The same site as Fig. 14 after deep ripping of the exposed subsoil, topsoil replacement, decompaction through the topsoil and upper subsoil and final surface tillage and revegetation to maintain soil permeability and infiltration.

The Deep Ripping and Decompaction practice is, by necessity, more extensive than periodic subsoiling of farmland.The cost of deep ripping and decompacting (deep subsoiling), will vary according to the depth and severity of soil-material compression and the relative amount of tractor and implement time that is required. In some instances, depending on open maneuverability, two-to-three acres of compacted project area may be deep-ripped in one day. In other situations of more severe compaction and - or less maneuverability, as little as one acre may be fully ripped in a day. Generally, if the Phase 1) Deep Ripping is fully effective, the Phase 2) Decompaction should be completed in 2/3 to 3/4 of the time required for Phase 1.

Using the example of two acres of Phase 1) Deep Ripping in one day, at $1800 per day, the net cost is $900 per acre. If the Phase 2) Decompacting or deep subsoiling takes 3/4 the time as Phase 1, it costs $675 per acre for a combined total of $1575 per acre to complete the practice (these figures do not include the cost of the separate practice of topsoil stripping and replacement). Due to the many variables, it must be recognized that cost will be determined by the specific conditions or constraints of the site and the availability of proper equipment.

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- Examples of implements:

V-Rippers. Access by internet search of *John Deere Ag -New Equipment for 915* (larger-frame model) *V-Rippe*; and, *for 913* (smaller-frame model) *V-Ripper*. Deep, angled-leg subsoiler. Access by internet search of: B*igham Brothers Shear Bolt Paratill-Subsoiler.* http://salesmanual.deere.com/sales/salesmanual/en_NA/primary_tillage/2008/feature/rippers/915v_pattern_frame.html?sbu=ag&link=prodcat Last visited March 08.

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- Soil penetrometer information. Access by internet searches of: *Diagnosing Soil Compaction using a Penetrometer (soil compaction tester), PSU Extension;* as well as *Dickey-john Soil Compaction Tester.* http://www.dickey-johnproducts.com/pdf/SoilCompactionTest.pdf and http://cropsoil.psu.edu/Extension/Facts/uc178pdf Last visited Sept. 07

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APPENDIX I:
LABELLA CERTIFYING PROFESSIONALS LETTER

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February 17, 2022

RE: LaBella Certifying Professionals for NYSDEC SPDES GP-20-001

To Whom it May Concern:

In accordance with the NYSDEC SPDES General Permit GP 0-20-001, part VII.H.2, the New York State licensed Professional Engineers employed by LaBella Associates and listed on the attachment to this letter are duly authorized to sign and seal Stormwater Pollution Prevention Plans (SWPPPs), NOIs, and NOTs prepared under their direct supervision.

Respectfully submitted,

LaBella Associates



Steven P. Metzger, PE
Chief Executive Officer

300 State Street, Suite 201 | Rochester, NY 14614 | p (585) 454-6110 | f (585) 454-3066
www.labellapc.com

LaBella Professional Engineers duly authorized to sign and seal SWPPPs, NOIs, and NOTs:

Name:	Title:	Signature:	Date:
Kyle Ahearn, PE	Senior Civil Engineer		2/9/22
Jody Allen, PE	Senior Civil Engineer		2/24/2022
Anthony Bernardi, PE	Senior Civil Engineer		
Christian Bertram, PE	Senior Civil Engineer		2/9/2022
Brendan Bystrak, PE	Vice President		
Steven Calocerinos, PE	Senior Civil Engineer		2/9/2022
Sean Doty, PE	Senior Civil Engineer		2/24/2022
Jason Ebbs, PE	Municipal Group Leader		
Michael Flanagan, PE	Senior Civil Engineer		2/10/22
Don Hoefler, PE	Senior Project Engineer		
Reuben Hull, PE	Senior Civil Engineer		2/9/2002
Eric Johnson, PE	Senior Civil Engineer		2/9/2002
Roger Keating, PE	Senior Civil Engineer		2/9/2022
Walter Kubow, PE	Senior Civil Engineer		2/9/2022
Christopher Lapine, PE	Senior Civil Engineer		2/9/22
Joseph Lanaro, PE	Vice President		2/9/2022
Michael Mishook, PE	Vice President		2/10/22
Lauren Rodriquez, PE	Civil Engineer		2/9/2022
Jonathan Spurr, PE	Civil Engineer		2/10/22
Mary Steblein, PE	Senior Civil Engineer		2/9/2022
Robert Steehler, PE	Vice President		2/9/2022
Timothy Webber, PE	Vice President		2/9/2022
Kristopher Winkler, PE	Senior Civil Engineer		2/14/2022

APPENDIX J:
NYSDEC SPDES GENERAL PERMIT GP-0-20-001

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020 Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

1-23-20

Authorized Signature Date

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;

2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*

3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

*Discharge*s authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* (“SWPPP”) the reason(s) for the

deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:

   (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharge*s;

   (ii) Control stormwater *discharge*s, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;

   (iii) *Minimize* the amount of soil exposed during *construction activity*;

   (iv) *Minimize* the disturbance of *steep slopes*;

   (v) *Minimize* sediment *discharge*s from the site;

   (vi) Provide and maintain *natural buffer*s around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharge*s, unless *infeasible*;

   (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;

   (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and

   (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.

b. **Soil Stabilization**. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

c. **Dewatering**. *Discharge*s from *dewatering* activities, including *discharge*s from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:

(i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;

(ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and

(iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Prohibited *Discharge*s.** The following *discharge*s are prohibited:

(i) Wastewater from washout of concrete;

(ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

(iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;

(iv) Soaps or solvents used in vehicle and equipment washing; and

(v) Toxic or hazardous substances from a spill or other release.

f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

(i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site discharges directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site discharges directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed

(i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible.*

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

(iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
(1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
(2) The site *discharge*s directly to tidal waters, or fifth order or larger streams.

(iv) *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

(v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
(1) the site *discharge*s directly to tidal waters or fifth order or larger streams, or
(2) A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

(i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.

(1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or

(2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or

(3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or

(4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

(ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iii) *Overbank* Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharge*s necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;

2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and

3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharge*s authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharge*s authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standard*s, the authorized *discharge*s will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.

2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharge*s; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.

3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharge*s from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.

4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

1. *Discharge*s after *construction activities* have been completed and the site has undergone *final stabilization*;

2. *Discharge*s that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;

3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;

4. *Construction activities* or *discharges* from *construction activities* that may adversely affect an *endangered or threatened species* unless the *owner or*

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;

6. *Construction activities* for residential, commercial and institutional projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

7. *Construction activities* for linear transportation projects and linear utility projects:

   a. Where the *discharge*s from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and

   b. Which are undertaken on land with no existing *impervious cover*; and

   c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:

   a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.

      - 1-5 acres of disturbance - 20 feet
      - 5-20 acres of disturbance - 50 feet
      - 20+ acres of disturbance - 100 feet, or

   b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
      (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
      (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
      (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
      (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or

   c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

      (i) No Affect
      (ii) No Adverse Affect
      (iii) Executed Memorandum of Agreement, or

   d. Documentation that:

      (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharge*s from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Coverage

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.

2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.

3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4* . This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

B. Notice of Intent (NOI) Submittal

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

   NOTICE OF INTENT
   NYS DEC, Bureau of Water Permits
   625 Broadway, 4th Floor
   Albany, New York 12233-3505

2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.

3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.

4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.

2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:

   a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (http://www.dec.ny.gov/) for more information,

   b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators* of *construction activities* that are required to obtain *UPA* permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

   c. the final SWPPP has been prepared, and

   d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.

3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:

   a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:

      (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or

      (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;

      (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:

(i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "*MS4* SWPPP Acceptance" form, or

(ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.

4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.

2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-20-001), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the *construction site* until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.

3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

use control MS4, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

a. The *owner or operator* shall have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.

d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.

e. The *owner or operator* shall include the requirements above in their SWPPP.

4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..

5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Coverage for Discharges Authorized Under GP-0-15-002

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of *a construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

   An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Change of Owner or Operator

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4,* the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.

2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.

3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.

2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.

3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.

4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:

   a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;

c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority; and

d. to document the final construction conditions.

5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.

6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor.* The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

   The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

   "I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharge*s from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:

   a. Background information about the scope of the project, including the location, type and size of project

b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);

c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);

d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;

e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;

f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;

g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;

i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;

k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and

l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

   Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

   The post-construction stormwater management practice component of the SWPPP shall include the following:

   a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;

c. A Stormwater Modeling and Analysis Report that includes:
   (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;

   (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;

   (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;

   (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

   (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and

   (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;

d. Soil testing results and locations (test pits, borings);

e. Infiltration test results, when required; and

f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria,* Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.

2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:

   a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

   b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

   c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and

   d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:

   a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.

   b. For construction sites where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

   c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4,* the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization,* and all temporary, structural erosion and sediment control measures have been removed*;* and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.B.1 of this permit.

e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization,* all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.

4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

a. Date and time of inspection;

b. Name and title of person(s) performing inspection;

c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;

d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;

e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;

f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;

g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;

i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;

j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);

k. Identification and status of all corrective actions that were required by previous inspection; and

l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

6. All inspection reports shall be signed by the *qualified inspector.* Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.

2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:

   a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

   b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;

   c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.

   d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.

3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.

4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector*'s final site inspection certification(s) required in Part V.A.3. of this permit.

5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:

   a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),

c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,

d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator,* its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to $37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit , or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:

    a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(i) the chief executive officer of the agency, or

(ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

    a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;

    b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.

3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.

4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

   It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.

4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.

2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

APPENDIX A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
Cpv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DOW – Division of Water
EAF – Environmental Assessment Form
ECL - Environmental Conservation Law
EPA – U. S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review
SEQRA - State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "*Construction Activity(ies)*" also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Construction Site – means the land area where *construction activity(ies)* will occur. See definition for "*Commence (Commencement of) Construction Activities"* and "*Larger Common Plan of Development or Sale" also.*

Dewatering – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment –means an earthen or rock slope that supports a road/highway.

Endangered or Threatened Species – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

(i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State*;*
(ii) Designed or used for collecting or conveying stormwater;
(iii) Which is not a *combined sewer*; and
(iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

Natural Buffer –means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Nonpoint Source - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Point Source - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint source*s. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standard*s, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint source*s, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1
Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres: • Single family home not located in one of the watersheds listed in Appendix C or not *directly discharging* to one of the 303(d) segments listed in Appendix E • Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E • Construction of a barn or other *agricultural building*, silo, stock yard or pen.
The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land: All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
The following construction activities that involve soil disturbances of one (1) or more acres of land: • Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains • Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects • Pond construction • Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover • Cross-country ski trails and walking/hiking trails • Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development; • Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path. • Slope stabilization projects • Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover,* and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

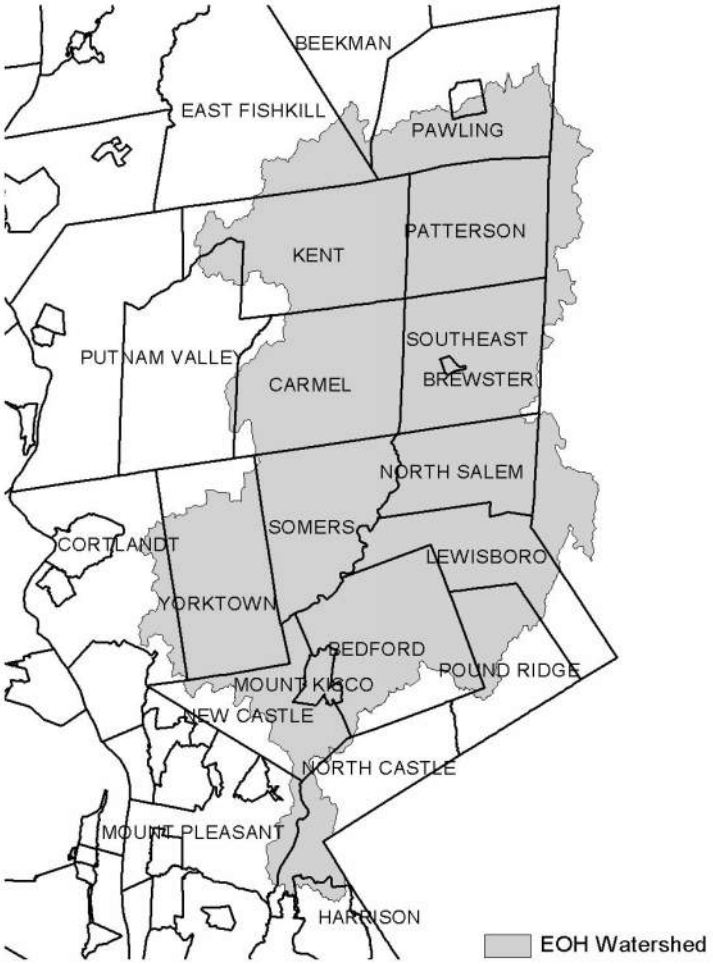


Figure 2 - Onondaga Lake Watershed



Figure 3 - Greenwood Lake Watershed

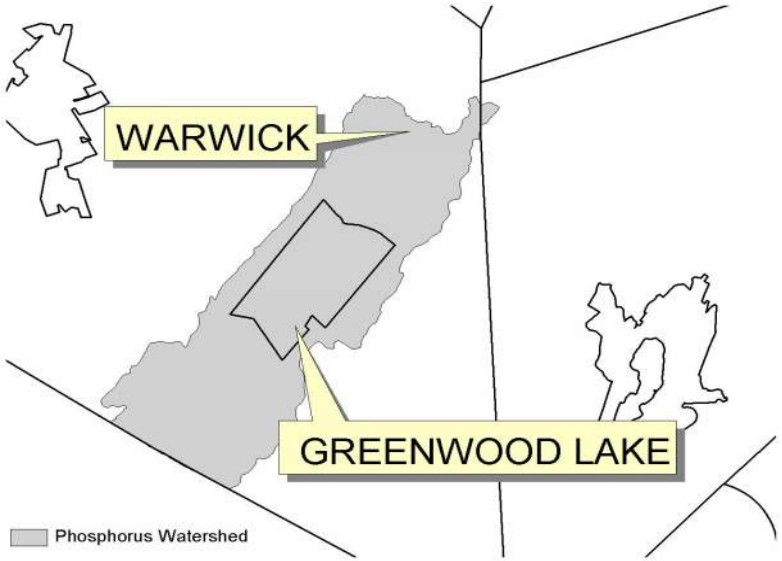


Figure 4 - Oscawana Lake Watershed

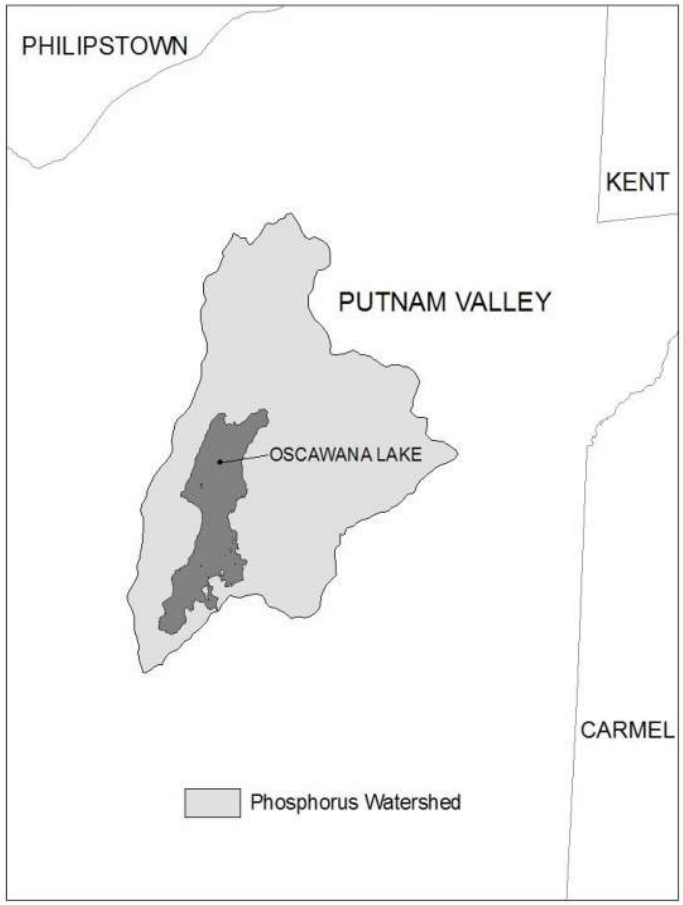
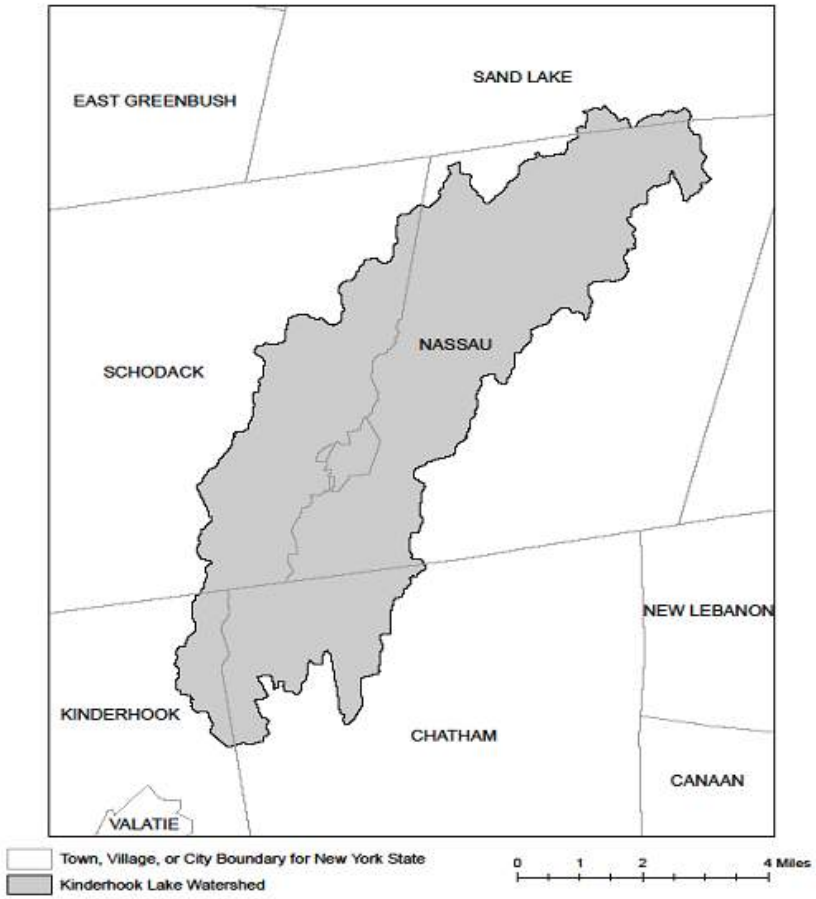


Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River **-** See Figure 1 in Appendix C

APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

APPENDIX F – List of NYS DEC Regional Offices

Region	Covering the following counties:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators	DIVISION OF WATER (DOW) Water (SPDES) Program
1	Nassau and Suffolk	50 Circle Road Stony Brook, NY 11790 Tel. (631) 444-0365	50 Circle Road Stony Brook, NY 11790-3409 Tel. (631) 444-0405
2	Bronx, Kings, New York, Queens and Richmond	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, NY 11101-5407 Tel. (718) 482-4933
3	Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester	21 South Putt Corners Road New Paltz, NY 12561-1696 Tel. (845) 256-3059	100 Hillside Avenue, Suite 1w White Plains, NY 10603 Tel. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1150 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, NY 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 State Route 86, Po Box 296 Ray Brook, NY 12977-0296 Tel. (518) 897-1234	232 Golf Course Road Warrensburg, NY 12885-1172 Tel. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

APPENDIX K:
NYSDEC SOLAR GUIDANCE

NYSDEC Memorandum - Solar Panel Construction Stormwater Permitting/SWPPP Guidance
MDE – Stormwater Design Guidance – Solar Panel Installations

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits
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www.dec.ny.gov

MEMORANDUM

TO: Regional Water Engineers

FROM: Robert Wither, Chief, South Permit Section

SUBJECT: Solar Panel Construction Stormwater Permitting/SWPPP Guidance

DATE: January 17, 2020

Issue

The Department is seeing an increase in the number of solar panel construction projects across New York State. This has resulted in an increase in the number of questions on Construction General Permit (CGP) and Stormwater Pollution Prevention Plan (SWPPP) requirements from design professionals because the current CGP (GP-0-15-002) does not include a specific reference to the SWPPP requirements for solar panel projects in Tables 1 and 2 of Appendix B. To address this issue, the Division of Water (DOW) has developed the following guidance on CGP/SWPPP requirements for the different types of solar panel projects.

Scenario 1

The DOW considers solar panel projects designed and constructed in accordance with the following criteria to be a "*Land clearing and grading for the purposes of creating vegetated open space (i.e. recreational parks, lawns, meadows, fields)*" type project as listed in Table 1, Appendix B of the CGP. Therefore, the SWPPP for this type of project will typically just need to address erosion and sediment controls.

1. Solar panels are constructed on post or rack systems and elevated off the ground surface,
2. The panels are spaced apart so that rain water can flow off the down gradient side of the panel and continue as sheet flow across the ground surface*,
3. For solar panels constructed on slopes, the individual rows of solar panels are generally installed along the contour so rain water sheet flows down slope*,
4. The ground surface below the panels consist of a well-established vegetative cover (see "Final Stabilization" definition in Appendix A of the CGP),
5. The project does not include the construction of any traditional impervious areas (i.e. buildings, substation pads, gravel access roads or parking areas, etc.),
6. Construction of the solar panels will not alter the hydrology from pre-to post development conditions (see Appendix A of the CGP, for definition of "Alter the hydrology…"). Note: The design professional shall perform the necessary site assessment/hydrology analysis to make this determination.

*Refer to Maryland's "Stormwater Design Guidance- Solar Panel Installations" attached for guidance on panel installation.
**See notes below for additional criteria.

Scenario 2

If the design and construction of the solar panels meets all the criteria above, except for item 6, the project will fall under the "*All other construction activities that include the construction or reconstruction of impervious area or alter the hydrology from pre-to post development conditions, and are not listed in Table 1*" project type as listed in Table 2, Appendix B of the CGP. Therefore, the SWPPP for this type of project must address post-construction stormwater practices designed in accordance with the sizing criteria in Chapter 4 of the NYS Stormwater Management Design Manual, dated January 2015 (Note: Chapter 10 for projects in NYC EOH Watershed). The Water Quality Volume (WQv)/Runoff Reduction Volume (RRv) sizing criteria can be addressed by designing and constructing the solar panels in accordance with the criteria in items 1 – 4 above, however, the quantity control sizing criteria (Cpv, Qp and Qf) from Chapter 4 (or 10) of the Design Manual must still be addressed, unless one of the waiver criteria from Chapter 4 can be applied. **See notes below for additional criteria.

**** Notes**

- Item 1: For solar panel projects where the panels are mounted directly to the ground (i.e. no space below panel to allow for infiltration of runoff), the SWPPP must address post-construction stormwater management controls designed in accordance with the sizing criteria in Chapter 4 of the NYS Stormwater Management Design Manual, dated January 2015 (Note: Chapter 10 for projects in NYC EOH Watershed).

- Item 5: For solar panel projects that include the construction of traditional impervious areas (i.e. buildings, substation pads, gravel access roads or parking areas, etc.), the SWPPP must address post-construction stormwater management controls for those areas of the project. This applies to both Scenario 1 and 2 above.

cc: Carol Lamb-Lafay, BWP
Dave Gasper, BWP

Stormwater Design Guidance – Solar Panel Installations

Revisions to Maryland's stormwater management regulations in 2010 require that environmental site design (ESD) be used to the maximum extent practicable (MEP) to mimic natural hydrology, reduce runoff to reflect forested wooded conditions, and minimize the impact of land development on water resources. This applies to any residential, commercial, industrial, or institutional development where more than 5,000 square feet of land area is disturbed. Consequently, stormwater management must be addressed even when permeable features like solar panel installations exceed 5,000 square feet of land disturbance.

Depending on local soil conditions and proposed imperviousness, the amount of rainfall that stormwater requirements are based on varies from 1.0 to 2.6 inches. However, addressing stormwater management does not mean that structural or micro-scale practices must be constructed to capture and treat large volumes of runoff. Using nonstructural techniques like disconnecting impervious cover reduces runoff by promoting overland filtering and infiltration. Commonly used with smaller or narrower impervious areas like driveways or open roads, the Disconnection of Non-Rooftop Runoff technique (see pp. 5.61 to 5.65 of the **2000 Maryland Stormwater Design Manual**[1]) is a low cost alternative for treating runoff in situations like rows of solar panels.

When non-rooftop disconnection is used to treat runoff, the following factors should be considered:

- The vegetated area receiving runoff must be equal to or greater in length than the disconnected surface (e.g., width of the row of solar panels)
- Runoff must sheet flow onto and across vegetated areas to maintain the disconnection
- Disconnections should be located on gradual slopes (≤ 5%) to maintain sheetflow. Level spreaders, terraces, or berms may be used to maintain sheetflow conditions if the average slope is steeper than 5%. However, installations on slopes greater than 10% will require an engineered plan that ensures adequate treatment and the safe and non-erosive conveyance of runoff to the property line or downstream stormwater management practice.
- Disconnecting impervious surfaces works best in undisturbed soils. To minimize disturbance and compaction, construction vehicles and equipment should avoid areas used for disconnection during installation of the solar panels.
- Groundcover vegetation must be maintained in good condition in those areas receiving disconnected runoff. Typically this maintenance is no different than other lawn or landscaped areas. However, areas receiving runoff should be protected (e.g., planting shrubs or trees along the perimeter) from future compaction.

Depending on the layout and number of panels installed, the disconnection of non-rooftop runoff technique may address some or all of the stormwater management requirements for an individual project. Where the imperviousness is high or there is other infrastructure (e.g., access roads, transformers), additional runoff may need to be treated. In these situations, other ESD techniques or micro-scale practices may be needed to provide stormwater management for these features.

Example 1 – Using Non-Rooftop Disconnection Where the Average Slope ≤ 5%

Several rows of solar panels will be installed in an existing meadow. The soils within the meadow are hydrologic soil group (HSG) B and the average slope does not exceed 5%. Each row of panels is 10 feet wide and the distance between rows is 20 feet. The rows of solar panels will be installed according to Figure 1 below. In this scenario, the disconnection length is the same as the distance between rows (20 feet) and is greater than the width of each row (10 feet). Therefore, each row of panels is adequately disconnected and the runoff from 1.0 inch of rainfall is treated.

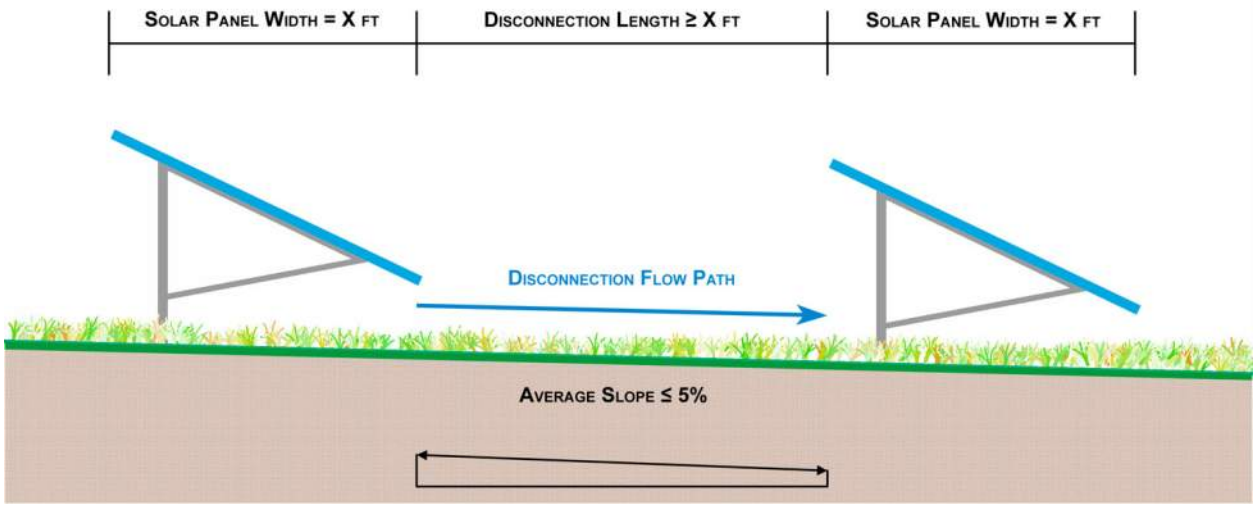


Figure 1. Typical Installation - Slope ≤ 5%

Example 2 – Using Non-Rooftop Disconnection Where the Average Slope ≥ 5% but ≤ 10%

Several rows of solar panels will be installed in an existing meadow. The soils within the meadow are hydrologic soil group (HSG) B and the average slope is greater than 5% but less than 10%. Each row of panels is 10 feet wide and the distance between rows is 20 feet. The rows of solar panels will be installed as shown in Figure 2 below. The disconnection length is the same as the distance between rows (20 feet) and is greater than the width of each row (10 feet). However, in this example, a level spreader (typically 1 to 2-foot wide and 1 foot deep) has been located at the drip edge of each row of panels to dissipate energy and maintain sheetflow.

Discussion

To meet State and local stormwater management requirements, ESD must be used to the MEP to reduce runoff to reflect forested conditions. While all reasonable options for implementing ESD must be investigated, minimally, the runoff from 1 inch of rainfall must be treated. In each of the examples above, there may be additional opportunities to implement ESD techniques or practices and reduce runoff that should be explored. However, simply disconnecting the runoff from the solar panel arrays captures and treats the runoff from 1.0 inch of rainfall. Where imperviousness is low and soil conditions less optimal (e.g., HSG C or D), this may be sufficient to completely address stormwater management requirements. In more dense applications or in sandy soils, additional stormwater management may be required.

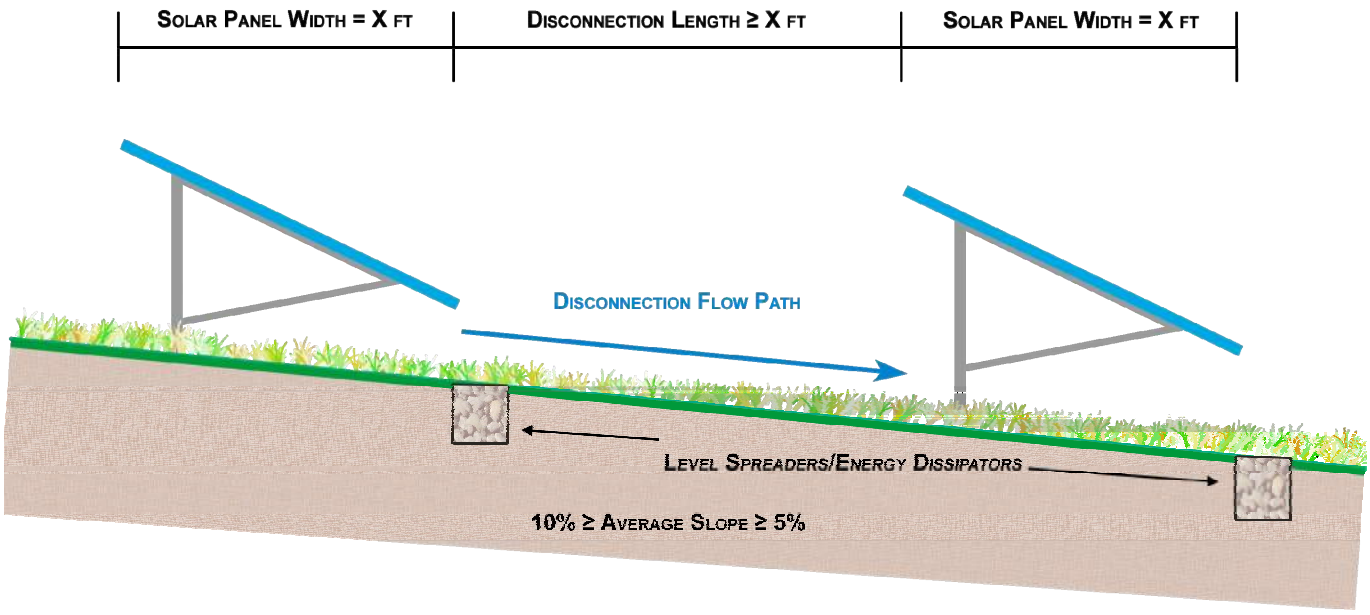


Figure 2. Typical Installation – Slope ≥ 5% but ≤ 10%

Conclusion

The primary purpose of Maryland's stormwater management program is to mimic natural hydrologic runoff characteristics and minimize the impact of land development on water resources. Any land development project that exceeds 5,000 square feet of disturbance, including solar panel projects, must address stormwater management. However, for solar panels, stormwater management may be provided in a cost-effective manner by disconnecting each row of panels and directing runoff over the vegetated areas between the individual rows.

Resources

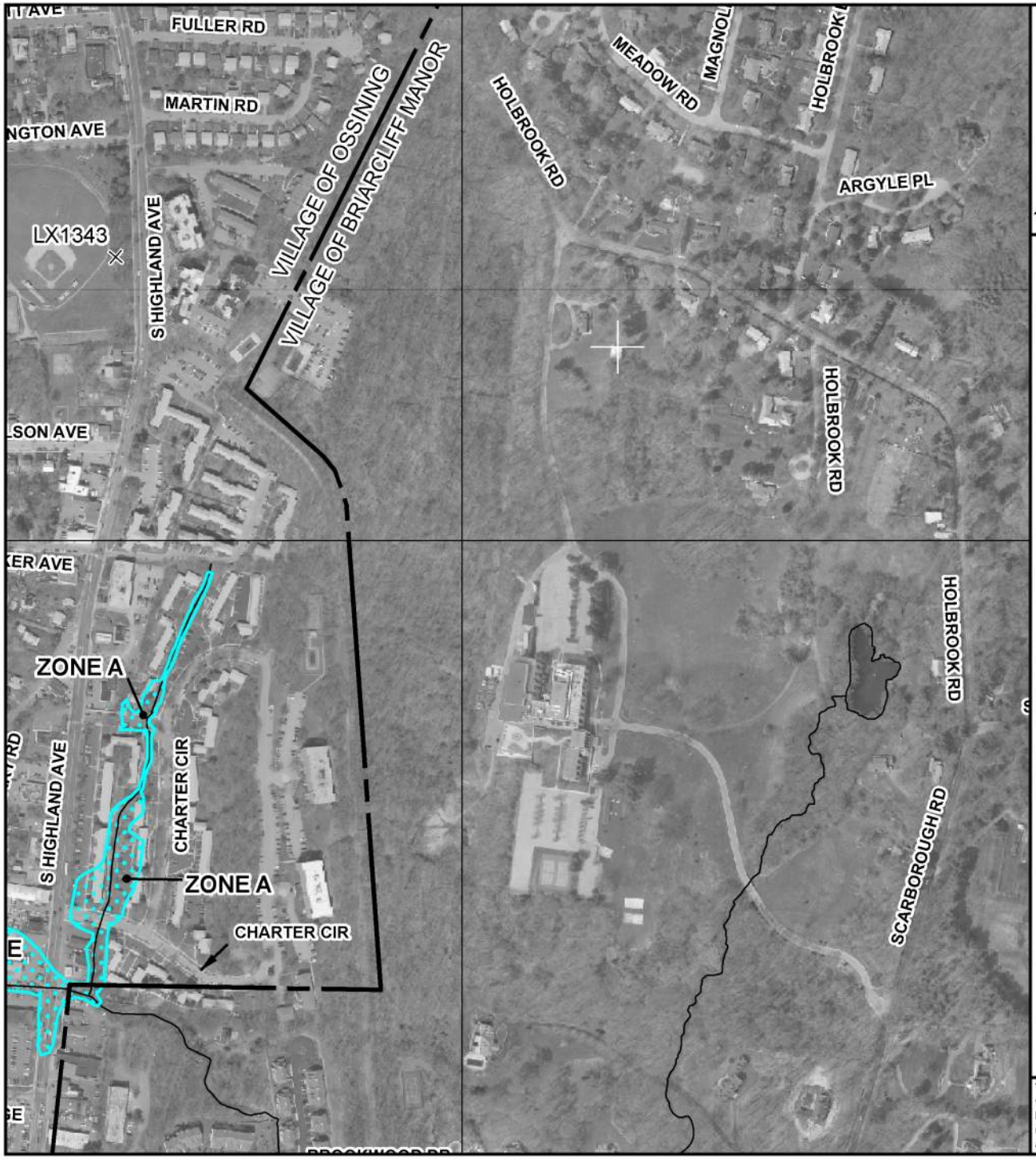
[1] 2000 Maryland Stormwater Design Manual, Volumes I and II, MDE, October 2000 (http://www.mde.state.md.us/programs/Water/StormwaterManagementProgram/MarylandStormwaterDesignManual/Pages/Programs/WaterPrograms/SedimentandStormwater/stormwater_design/index.aspx)

Appendix Q
Floodplain Management

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Appendix Q-1
FIRMette

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MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 M

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0138F

FIRM

FLOOD INSURANCE RATE MAP

for WESTCHESTER COUNTY, NEW YORK
(ALL JURISDICTIONS)

CONTAINS:

COMMUNITY	NUMBER
BRIARCLIFF MANOR, VILLAGE OF	360904
MOUNT PLEASANT, TOWN OF	360919
OSSINING, VILLAGE OF	361021

PANEL 138 OF 426
MAP SUFFIX: F
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
36119C0138F

EFFECTIVE DATE
SEPTEMBER 28, 2007

Federal Emergency Management Agency

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at https://msc.fema.gov.

Appendix Q-2
Floodplain Management Response Letter

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Flood Protection and Dam Safety
625 Broadway, Albany, New York 12233-3504
P: (518) 402-8185 | F: (518) 402-9029
www.dec.ny.gov

March 28, 2022 sent via email to: nadia.jagdat@ysgsolar.com

Nadia Jagdat
YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016

RE: Solar PV Facility
Village of Briarcliff Manor
Westchester County

To Nadia Jagdat:

A determination was requested from this office of whether the above-referenced proposed Solar PV facility in the Village of Briarcliff Manor, Westchester County would affect the Special Flood Hazard Area (SFHA).

As shown on the Flood Insurance Rate Map (FIRM) panel 36119C0138F, dated 9/28/2007, the project site is in a Zone X, outside the 1% annual chance (100-year) floodplain. This zone is not subject to floodplain regulations. I've attached a FIRMette of the area of interest for your reference.

This review did not look at any other local, state, or federal permits that may be needed for the project. Should you have any questions, do not hesitate to contact me. I work out of the Department's Central Office in Albany and can be reached by phone at (518) 402-7350 or by email at geoffrey.golick@dec.ny.gov.

Regards,

Geoffrey Golick

Geoff Golick, EIT
Assistant Engineer, Floodplain Management Section

E-Enclosures: Panel 36119C0138F FIRMette

Ecc: Kelli Higgins-Roche, DEC Albany, Division of Water

Appendix R
State Historic Preservation Office

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Appendix R-1
OPRHP Notification Letter

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79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

NYS OPRHP Taconic Region
9 Old Post Road
PO Box 308
Staatsburg, NY 12580
Email: Jesse.Jaycox@parks.ny.gov
Tel: (845) 889-3868

March 28, 2022

To the NYS Office of Parks, Recreation and Historic Preservation,

I am writing to you on behalf of YSG Solar Development Company, LLC regarding the proposed development of a Solar PV facility located in the Village of Briarcliff Manor in Westchester County, New York. The overall site is identified on the Briarcliff Manor tax map as parcel number 97.16-1-1 with a total acreage of 78.24 Acres. We are contacting the OPRHP to seek confirmation that the project will not impose on sensitive recreation or historic preservation areas at the site. Below is a description of the project for your review.

The proposed project consists of the demolition of the existing multi story commercial complex, covering approximately +/-5.6 acres of the parcel; and the installation of a 5MW (System Size in DC) ground mounted solar PV systems with a maximum height above grade 8.5 ft.

The Solar PV modules will be mounted on a structural steel frame supported on driven steel piles. Due to the nature of the support system, ground disturbance will be minimal. Natural low growth vegetation around the site will act as a buffer between the array, roads and adjacent properties. The vegetation will be enhanced in order to retain the present site drainage patterns and runoff quantities. Site Access will be achieved through the use of the existing on site road. The construction of a new site entrance is not required. The electrical grid interface point and underground cables will be used to connect the solar arrays to the electrical panels, disconnects, and transformer. The installation will be compliant with all local, statewide, and federal permitting standards. There will be no buildings constructed and no on-site employees.

The development will provide renewable energy access via community solar. I have enclosed a copy of a preliminary site map and SEQR long form for your review. Thank you for your time and we look forward to hearing back from you with your determination.

Sincerely,

Nadia Jagdat

Nadia Jagdat
YSG Solar Development Company, LLC
nadia.jagdat@YSGSolar.com

Appendix R-2
Identification of SHPO as Regulating Agency

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Nadia Jagdat <nadia.jagdat@ysgsolar.com>

YSG Solar_Briarcliff Solar

5 messages

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Mon, Mar 28, 2022 at 3:10 PM
To: Jesse.Jaycox@parks.ny.gov
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Good afternoon,

I am reaching out to you from YSG Solar Development Company, LLC in pursuance of a no impact determination for one of our proposed Solar PV developments in Briarcliff Manor, NY. Please find attached a copy of the notification letter, Long Form SEQR and preliminary site map. We look forward to your response. Thank you.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835

This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

4 attachments

- **NYS OPRHP Notification Letter (Briarcliff).pdf** 103K
- **Site Map Briarcliff.pdf** 603K
- **Site Map Briarcliff 2.pdf** 604K
- **SEQR FEAF - Final 032822 (Signed).pdf** 1829K

Jaycox, Jesse (PARKS) <Jesse.Jaycox@parks.ny.gov> Tue, Apr 5, 2022 at 12:34 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: James Taravella <james.t@ysgsolar.com>, David Magid <dmg@ysgsolar.com>

Hello – I forwarded your request on to Nancy Herter (Nancy.Herter@parks.ny.gov) in our Division for Historic Preservation.

Thank you,

Jesse

Jesse W. Jaycox

Wildlife Biologist

New York State Parks, Recreation & Historic Preservation

Division of Environmental Stewardship and Planning

625 Broadway, Albany, NY 12238

Office (518) 473-4776 | Cell (845) 240-5196 | Email: Jesse.Jaycox@parks.ny.gov

https://parks.ny.gov

From: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Sent: Monday, March 28, 2022 3:11 PM
To: Jaycox, Jesse (PARKS) <Jesse.Jaycox@parks.ny.gov>
Cc: James Taravella <james.t@ysgsolar.com>; David Magid <dmg@ysgsolar.com>
Subject: YSG Solar_Briarcliff Solar

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

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Nadia Jagdat <nadia.jagdat@ysgsolar.com> Wed, Apr 6, 2022 at 10:16 AM
To: nancy.herter@parks.ny.gov

Hello Nancy,

I am kindly following up on a no effect letter for our latest solar development site. We will need a letter for due diligence.

Best regards,
Nadia Jagdat
Development Associate
YSG Solar
(ph) 212-389-9215
(fx) 877-255-5835

YSG SOLAR

This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or

incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

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Herter, Nancy (PARKS) <Nancy.Herter@parks.ny.gov> Wed, Apr 6, 2022 at 2:55 PM
To: Nadia Jagdat <nadia.jagdat@ysgsolar.com>
Cc: "Towers, Chelsea (PARKS)" <Chelsea.Towers@parks.ny.gov>

Hi Nadia,

The NYSHPO has not completed its review of this project (22PR01760). Our building/structure reviewer, Chelsea Towers, is requesting additional documentation on the buildings adjacent to the project area (see attached). Please note that we do not have any archaeological concerns and we are NOT requesting a Phase IA/IB archaeological survey. If you would like to contact Chelsea, she can be reached at chelsea.towers@parks.ny.gov

We will be able to provide an effect opinion once we receive/review the requested information.

Nancy

Nancy Herter, Ph.D.

Director, Technical Preservation Services Bureau

Division for Historic Preservation

New York State Parks, Recreation & Historic Preservation

PO Box 189, Peebles Island, Waterford, New York 12188-0189

(518) 268-2179 | nancy.herter@parks.ny.gov

https://parks.ny.gov/shpo

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YSG Solar Briarcliff Solar SHPO Information Request.JPG
158K

Nadia Jagdat <nadia.jagdat@ysgsolar.com> Thu, Apr 7, 2022 at 11:40 AM
To: "Herter, Nancy (PARKS)" <Nancy.Herter@parks.ny.gov>

Thanks for the update, Nancy. We are in the process of finalizing our response for CRIS and we will have it submitted to Chelsea Towers by the end of the day today.

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YSG Solar Briarcliff Solar SHPO Information Request.JPG
158K

Appendix R-3
SHPO Initial Submission Approval

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YSG SOLAR

Nadia Jagdat <nadia.jagdat@ysgsolar.com>

NY SHPO: Initial Consultation Submission YJQDB5EWBGFN Accepted for Project 22PR01760

1 message

New York State Parks CRIS Application <cris.web@parks.ny.gov> Mon, Mar 14, 2022 at 8:45 AM
To: nadia.jagdat@ysgsolar.com

Initial Submission Accepted

The New York State Historic Preservation Office (SHPO) has accepted the following initial submission and created a new project record.

> **Initial Submission Token:** YJQDB5EWBGFN
>
> **New Project Number:** 22PR01760
>
> **Project Type:** Consultation
>
> **Project Name:** Briarcliff Solar
>
> **New Submission Number:** 22PR01760.001

If you contact SHPO about this project, please reference the Project Number.

New York State Historic Preservation Office
Peebles Island State Park, P.O. Box 189, Waterford, NY 12188-0189
518-237-8643 | https://parks.ny.gov/shpo
CRIS: https://cris.parks.ny.gov

Are you registered to vote? Register to vote online today. Moved recently? Update your information with the NYS Board of Elections. Not sure if you're registered to vote? Search your voter registration status.

Who sent this email?

This email is a notification from the New York State Cultural Resource Information System (CRIS). CRIS is an online service administered by the New York State Division for Historic Preservation, also known as the New York State Historic Preservation Office (SHPO), which is a division of New York State Parks, Recreation & Historic Preservation.

This message pertains to a submission for a consultation project. Please see SHPO's Environmental Review web page for more information about the consultation process.

Why did I receive this email?

The submission's contact list included your email address.

What do I need to do?

You do not need to take any action at this time. The initial submission is now under SHPO review as project submission 22PR01760.001.

What will happen next?

SHPO will review the submission. If SHPO sends comments or questions in response to this submission, the project contacts will receive an email notification with a link to SHPO's correspondence.

What else can I do?

Please see the following help topics for more information about managing projects in CRIS:

- How do I check the review status of my project?
- How long does SHPO take to review projects?
- Submit New Information for an Existing Project

Where can I get help?

Please visit the CRIS Online Help System: https://cris.parks.ny.gov/CRISHelp

If you still have questions about CRIS, please contact CRIS Help at CRISHelp@parks.ny.gov.

For any other questions, please call SHPO at 518-237-8643.

Appendix R-4
SHPO Solar Project Survey Guidance - Response

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New York State Historic Preservation Office
Guidelines for Solar Facility Development Cultural Resources Survey Work

(7-2021)

The New York State Office of Parks, Recreation and Historic Preservation's Division for Historic Preservation ("Division") has established the following guidance for the assessment of historic and cultural resources associated with the development of ground-mounted solar facility projects in New York State.

Visual Impact Area for Historic Resources

Establish a project Zone of Visual Impact ("ZVI") and analyze potential impacted cultural and historic resources as follows:

1. Solar arrays covering less than 50-acres.
    a. Documentation* of all properties that are 50-years of age or older that are within or immediately adjacent to the project boundaries. Immediately adjacent includes buildings whose property lines abut the project boundary as well as those that are across roads or adjacent fields from the project boundary.
2. Solar arrays covering 50 to 200-acres.
    a. Establish a ZVI boundary by completing a GIS analysis of areas that will have positive visibility of the solar field based upon topography and estimated existing vegetation heights.
    b. A survey** of all properties 50-years old or older within 0.5-mile of the solar array ZVI should be completed by a 36 CFR 61 qualified consultant.
3. Solar arrays covering more than 200 acres.
    a. Establish a ZVI boundary by completing a GIS analysis of areas that will have positive visibility of the solar field based upon topography and estimated existing vegetation heights.
    b. A survey*** of all properties 50 years old or older within 1-mile of the solar array ZVI should be completed by a 36 CFR 61 qualified consultant.
4. The NYSOPRHP-DHP may seek additional assessments for National Register listed properties or National Historic Landmarks at greater distances, if it is believed that there may be a visual impact associated with the proposed new solar project.

**A Zone of Visual Impact (ZVI) is established within the project's Visual Impact Area (VIA). Distances identified above are from the fence-line of the solar field(s) outward in those areas where the field(s) will be visible based upon the GIS analysis.*

***Documentation will include digital images of main building(s) and outbuilding(s), street address, map location, and date of construction (if known).*

**** The determined distance of survey from the solar field is for those areas that fall within the ZVI as established by the GIS analysis only. Qualified (36 CFR 61) consultants are required to document only those properties that in their professional opinion may meet the National Register criteria.*

Historic Resources Survey

1. The survey will initially identify all properties (buildings, structures, sites, historic districts) within the ZVIs defined above that were previously determined eligible for inclusion in or are already listed in the New York State and National Registers of Historic Places using the Division's Cultural Resource Information System (CRIS).

2. The Division's Survey/National Register Unit Staff will assess eligibility for all newly identified properties as well as properties recorded in previous survey efforts whose integrity has changed significantly since the original determination.

3. For documentation of buildings in Category 1 above (less than 50-acres), the Division will assess submitted building information for eligibility directly. While a full Survey Report is not required for projects of this scale, documentation must include, at a minimum, clear digital images taken from ground level and showing the front and sides of the main building and any associated outbuildings; address and map location; and date of construction (if known).

4. For survey of Visual Impact Area Categories 2 & 3 above (greater than 50 acres), the following process will apply:
    a. Surveyor needs to be 36 CFR 61 qualified to make determinations of National Register eligibility.
    b. Surveyor will submit the proposed ZVI and Methodology/Survey Work Plan to CRIS prior to undertaking any survey field work.

c. Upon approval of the ZVI and Methodology/Survey Work Plan, the project surveyor will be given access to the Trekker mobile survey application for the survey field work.
d. Upon completion of the field work the surveyor will submit the digital Trekker survey forms for review by Survey/National Register Unit Staff.
e. The final steps in the survey process will be to submit a pdf of the Historic Resources Survey Report and a separate Annotated Properties List in Excel via CRIS. The standalone Excel spreadsheet is to include the following fields: property name (if any); address; municipality; county; USN (if any); current NRHP status; current/proposed NRHP criteria/recommended area(s) of significance; integrity; recommended NRHP status; and a primary image.

Appendix R-5
Briarcliff Manor ZVI Response

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YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016

Ms. Chelsea Towers
Historic Preservation Program Analyst
NYS OPRHP
1 Delaware Avenue North
Cohoes, NY 12047
Email: chelsea.towers@parks.ny.gov

April 14, 2022

RE: Briarcliff Manor Solar
NYS SHPO CRIS Consolidated Response
Project No.: 22PR01760
Response No.: F3OU6RFGYUHN

Dear Ms. Towers,

Thank you for providing your response to our inquiry on the above referenced project. Per your response, based on the proposed acreage of the solar field we have provided photos of the subject property and publicly available images of the structures on adjacent parcels that are at least 50 years old.

Per the "New York State Historic Preservation Office Guidelines for Solar Facility Development Cultural Resources Survey Work (7-2021)" YSG has sought to establish a Visual Impact Area for the site. As indicated in Figure 1 below, there are 41 parcels that abut the proposed 40-acre solar development located on the 78-acre 345 Scarborough Rd, Briarcliff Manor, NY 10510 parcel.

For sites less than 50-acres the SHPO Guidance requires "documentation[1] of all properties that are 50 years of age or older that are within or immediately adjacent to the project boundaries. Immediately adjacent includes buildings whose property lines abut the project boundary as well as those that are across roads or adjacent fields from the project".

In coordination with Figure 1, the attached table lists the adjacent properties identified in the figure and provides the parcel's Tax ID, Owner (at the time of this report), latitude/longitude, date of construction[2], and the approximate age of the structure. Our analysis determined that there are 31 structures across the 41 adjacent parcels that are at least 50 years old. Street level photos, obtained from publicly available search engines, of the 31 structures can be found in the attached photo log.

[1] Documentation will include digital images of main building (s) and outbuilding(s), street address, map location, and date of construction (if known).

[2] Date of construction was obtained from Westchester County Tax Parcel Viewer by viewing aerial imagery at different years. Any structures in aerial photos dated 1972 or earlier were deemed to be aged at least 50 years.

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016

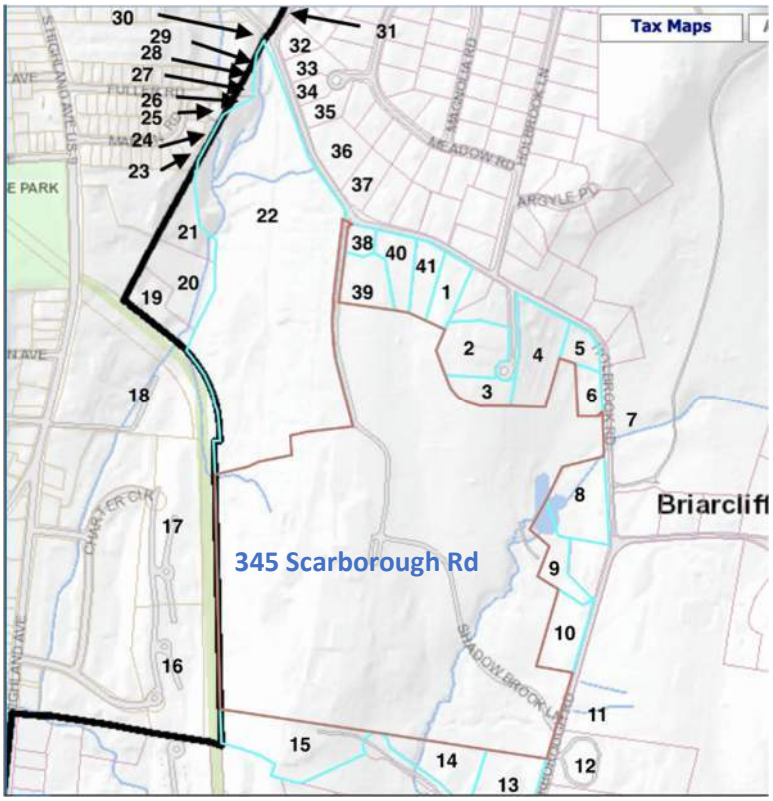


Figure 1: Map of Subject Property & Adjacent Parcels

The structure on the subject parcel is an approximately 180,000 square feet office building that was previously owned and operated as a research facility by the Philips Lighting company. The research facility consists of four main interconnected buildings designated as Buildings A, B, C, and D and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area. The property is accessed by a private drive known as Shadow Brook Lane. Asphalt paved parking is present to the north and south of the research facility.

Philips lighting constructed the original buildings (A and B) in 1964 for use as a research facility and office building. Philips added building C in 1980 and building D in 1988. The facility has been vacant since Philips ceased their operations at the site in 2015. The photos in figures 2 through 5, below, illustrate the general state of the facility.

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016

Photos of 345 Scarborough Rd



Figure 2: East facing wall (looking west)



Figure 3: North facing wall (looking south)



Figure 4:South facing wall (looking north)



Figure 5:West facing (looking south)

As shown above, the on-site facility has been the subject of extensive vandalization. In addition to the damages done to the facility's exterior, an asbestos report completed in 2017 indicates that an extensive abatement will be required prior to the proposed razing of the research facility.

If you need any additional information, please feel free to contact me via email at **Nadia.Jagdat@YSGSolar.com** or call me at **212-389-9215**

Best regards,

Nadia Jagdat
Development Associate
YSG Solar Development Company

Map ID #	Tax ID #	Parcel Address & Owner	Latitude Longitude	Date of Construction	Building Age (years)	Digital Images Required?
1	*97.12-1-14*	*Robert J Rubenstein & Elsa S Shapiro 140 Holbrook Rd Briarcliff Manor, NY 10510*	*41.151312 -73.853089*	*Pre 1972*	*50+*	*Yes*
2	*97.12-1-17*	*Eric C Johnson 120 Holbrook Rd Briarcliff Manor, NY 10510*	*41.151759 -73.853319*	*Pre 1972*	*50+*	*Yes*
3	*97.12-1-18*	*Kenneth R & Doreen B Cross 100 Holbrook Rd Briarcliff Manor, NY 10510*	*41.149940 -73.852070*	*Pre 1972*	*50+*	*Yes*
4	*97.12-1-19*	*Howard C Penn 94 Holbrook Rd Briarcliff Manor, NY 10510*	*41.150518 -73.851293*	*Pre 1972*	*50+*	*Yes*
5	*97.12-1-20*	*Corina Rosenzweig 84 Holbrook Rd Briarcliff Manor, NY 10510*	*41.150583 -73.850496*	*Pre 1972*	*50+*	*Yes*
6	*97.12-1-21*	*Howard G Dale & Gorre Eirah 54 Holbrook Rd Briarcliff Manor, NY 10510*	*41.149977 -73.850365*	*Pre 1972*	*50+*	*Yes*
7	*97.12-1-22*	*Albert Erani Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*41.151909 -73.848585*	*No Buildings on Site*	*N/A*	*No*
8	*97.16-1-2*	*Roger & Kathy Battacharia 16 Holbrook Rd Briarcliff Manor, NY 10510*	*41.148672 -73.850700*	*Pre 1972*	*50+*	*Yes*
9	*97.16-1-4*	*Daniel M Levine & Maria Levine 293 Scarborough Rd Briarcliff Manor, NY 10510*	*41.147704 -73.850961*	*Between 1990-2000*	*<50*	*No*
10	*97.16-1-5*	*Philip Raclyn 309 Scarborough Rd Briarcliff Manor, NY 10510*	*41.146657 -73.850838*	*Pre 1972*	*50+*	*Yes*
11	*97.16-1-22*	*Holly Hill LLC 298 Scarborough Rd Briarcliff Manor, NY 10510*	*41.146307 -73.848601*	*Pre 1972*	*50+*	*Yes*

Map ID #	Tax ID #	Parcel Address & Owner	Latitude Longitude	Date of Construction	Building Age (years)	Digital Images Required?
12	*97.16-1-21*	*Jared Solomon & Katherine Solomon 366 Scarborough Rd Briarcliff Manor, NY 10510*	*41.144826 -73.849773*	*Pre 1972*	*50+*	*Yes*
13	*97.16-1-6*	*John A Galeno & Deven Lombardia-Galeno 21 Shadow Brook Ln Briarcliff Manor, NY 10510*	*41.144477 -73.851703*	*Between 2000-2004*	*<50*	*No*
14	*97.16-1-7*	*Michael P & Nancy Mezzacappa 43 Shadow Brook Ln Briarcliff Manor, NY 10510*	*41.144696 -73.852712*	*Between 1990-2000*	*<50*	*No*
15	*97.16-1-8*	*Kenneth Dengler 90 Shadow Brook Ln Briarcliff Manor, NY 10510*	*41.144930 -73.855722*	*Between 1976-1990*	*<50*	*No*
16	*97.15-3-32*	*Jefferson House Association LLC 71 Charter Cir Ossining, NY 10562*	*41.146478 -73.857455*	*Between 1960 and 1976*	*50+*	*Yes*
17	*97.15-3-33*	*Jefferson House Association LLC 81 Charter Cir Ossining, NY 10562*	*41.147993 -73.857776*	*Between 1960 and 1976*	*50+*	*Yes*
18	*97.11-4-32*	*Highland Terrace Owners Corp. 123/125 South Highland Ave Ossining, NY 10562*	*41.149893 -73.858186*	*Pre 1972*	*50+*	*Yes*
19	*97.12-1-8*	*Highland Terrace Owners Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*41.151281 -73.858380*	*Between 1960 and 1976*	*50+*	*Yes*
20	*97.12-1-7*	*Parkview Apartments Corp Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*41.151745 -73.857605*	*Between 1960 and 1976*	*50+*	*Yes*
21	*97.12-1-6*	*Sparta Fee I LLC Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*41.152716 -73.857331*	*No Buildings on Site*	*N/A*	*No*
22	*97.12-1-9*	*Ridgewood Briarcliff Owner LLC Holbrook Rd Briarcliff Manor, NY 10510*	*41.153896 -73.857120*	*No Buildings on Site*	*N/A*	*No*

Map ID #	Tax ID #	Parcel Address & Owner	Latitude Longitude	Date of Construction	Building Age (years)	Digital Images Required?
23	*97.11-2-36*	*Rosemarie Baker 22 Martin Rd Ossining, NY 10562*	*41.153429 -73.857646*	*Between 1960 and 1976*	*50+*	*Yes*
24	*97.11-2-33*	*Village of Ossining*	*N/A*	*No buildings on site*	*N/A*	*No*
25	*97.11-2-30*	*John Green & Marleen Green 22 Fuller Rd Ossining, NY 10562*	*41.153958 -73.857105*	*Between 1960 and 1976*	*50+*	*Yes*
26	*97.11-2-29*	*Christopher Boswell & Jean Boswell 24 Fuller Rd Ossining NY 10562*	*41.154007 -73.856911*	*Between 1960 and 1976*	*50+*	*Yes*
	97.12-1-1	*Christopher Boswell & Jean Boswell Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*Yard to 24 Fuller Rd*		*N/A*	*No*
27	*97.08-1-43*	*Mary Musolino 33 Fuller Rd Ossining, NY 10562*	*41.154158 -73.856798*	*Between 1960 and 1976*	*50+*	*Yes*
	97.08-2-20	*Joseph Musolino & Catherine Musolino Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*Yard to 33 Fuller Rd*		*N/A*	*No*
28	*97.08-1-44*	*Robert Muranelli & Rosemarie Baker 31 Fuller Rd Ossining, NY 10562*	*41.154327 -73.856963*	*Between 1960 and 1976*	*50+*	*Yes*
	97.08-2-19	*Robert Muranelli & Rosemarie Baker Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*Yard to 31 Fuller Rd*		*N/A*	*No*
29	*97.08-2-18*	*Birch Brook Manor Inc Unadressed Holbrook Rd Parcel Briarcliff Manor, NY 10510*	*Wooded area behind 81-89 South Highland Ave*		*N/A*	*No*
30	*97.07-7-24*	*Birch Brook Manor Inc 81-89 South Highland Ave Unit 07-7-24 Ossining, NY 10562*	*41.154783 -73.856620*	*Pre 1972*	*50+*	*Yes*
31	*97.08-2-17*	*Savvas Tsentides & Anthi Tsentides 8 Macy Rd Briarcliff Manor, NY 10510*	*41.155151 -73.855985*	*No buildings on site*	*N/A*	*No*

Map ID #	Tax ID #	Parcel Address & Owner	Latitude Longitude	Date of Construction	Building Age (years)	Digital Images Required?
32	*97.08-2-23*	*Peter Curran & Heather Curran* *3 Macy Rd* *Briarcliff Manor, NY 10510*	*41.154941* *-73.855853*	*Between 1960 and 1976*	*50+*	*Yes*
33	*97.08-2-22*	*Elaine Serra & Vincent M Serra* *14 Meadow Pl* *Briarcliff Manor, NY 10510*	*41.154508* *-73.855349*	*Between 1960 and 1976*	*50+*	*Yes*
34	*97.08-2-21*	*Robert E Peterson & Dolores Peterson* *15 Meadow Pl* *Briarcliff Manor, NY 10510*	*41.154172* *-73.855370*	*Between 1960 and 1976*	*50+*	*Yes*
35	*97.12-1-59*	*Michael D Dannenbring & Srirat* *Dannenbring 11 Meadow Pl* *Briarcliff Manor, NY 10510*	*41.153929* *-73.855091*	*Between 1960 and 1976*	*50+*	*Yes*
36	*97.12-1-58*	*Alison Y Medland & Kyle L Fletcher* *201 Holbrook Rd* *Briarcliff Manor, NY 10510*	*41.153348* *-73.854876*	*Pre 1972*	*50+*	*Yes*
37	*97.12-1-57*	*Daniel Gold & Laura K Gold* *181 Holbrook Rd* *Briarcliff Manor, NY 10510*	*41.152746* *-73.854416*	*Pre 1972*	*50+*	*Yes*
38	*97.12-1-10*	*Ridgewood Briarcliff Owner LLC* *Unadressed Holbrook Rd Parcel* *Briarcliff Manor, NY 10510*	*41.151519* *-73.854389*	*Pre 1972*	*50+*	*Yes*
39	*97.12-1-11*	*Ridgewood Briarcliff Owner LLC* *Unadressed Holbrook Rd Parcel* *Briarcliff Manor, NY 10510*	*41.151463* *-73.854419*	*Pre 1972*	*50+*	*Yes*
40	*97.12-1-12*	*Michael & Francine Verrilli* *178 Holbrook Rd* *Briarcliff Manor, NY 10510*	*41.151775* *-73.853759*	*Pre 1972*	*50+*	*Yes*
41	*97.12-1-13*	*Suzanne Whitmore* *152 Holbrook Rd* *Briarcliff Manor, NY 10510*	*41.151759* *-73.853319*	*Pre 1972*	*50+*	*Yes*
--	89.15-4-94	Taconic State Park Comm NY Dept. of Audit & Control	41.147695 -73.857160	No Buildings on Site	N/A	No

Map ID No.: # 1
Tax ID: 97.12-1-14
Owners: Robert J. Rubenstein & Elsa S. Shapiro
Address: 140 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151312, -73.853089

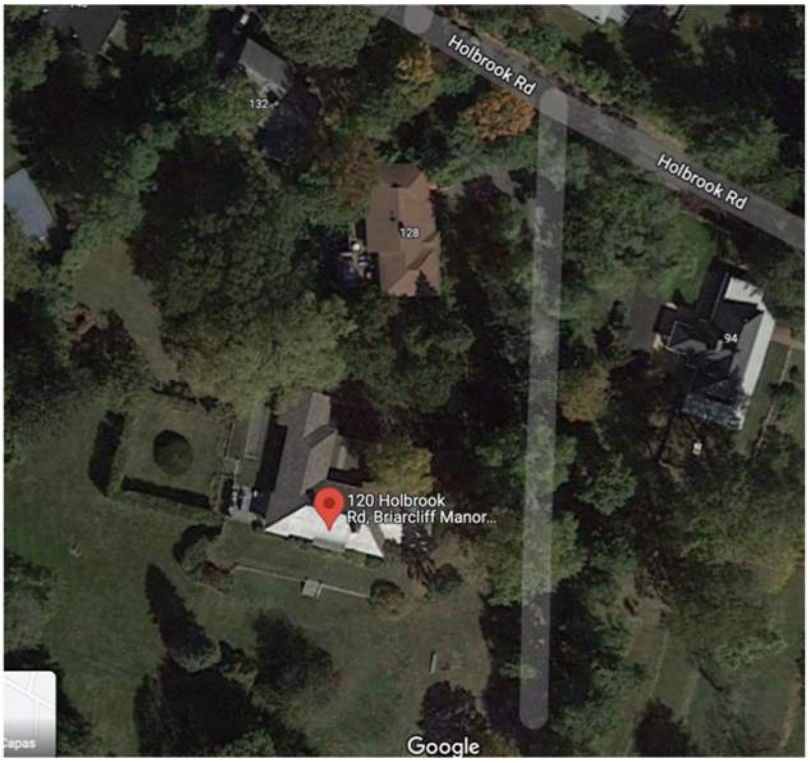


View: Facing South (Source: Google Maps)



View: Facing South (Source: Bing Maps)

Map ID No.: #2
Tax ID: 97.12-1-17
Owners: Eric C. Johnson
Address: 120 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151759, -73.853319



View: Aerial Image (Source: Google Maps)

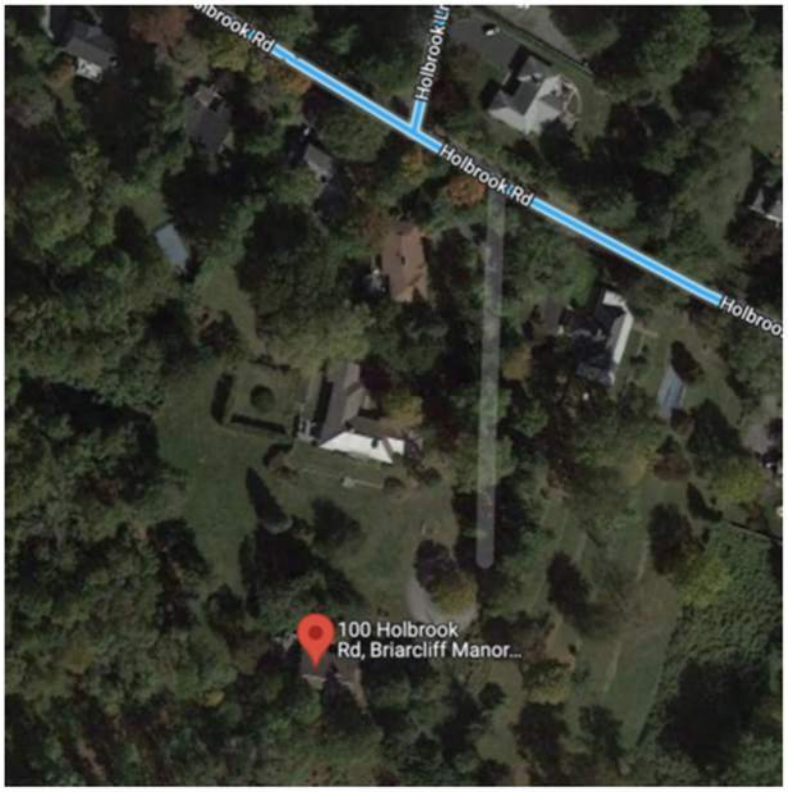


View: Facing South (Source: Bing Maps)

Map ID No.: #3
Tax ID: 97.12-1-18
Owners: Kenneth R. & Doreen B. Cross
Address: 100 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.149940, -73.852070



View: Facing South (Source: Bing Maps)



View: Aerial Image (Source: Google Maps)

Map ID No.: #4
Tax ID: 97.12-1-19
Owners: Howard C. Penn
Address: 94 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.150518, -73.851293



View: Facing South (Source: Google Maps)



View: Facing South (Source: Bing Maps)

Map ID No.: #5
Tax ID: 97.12-1-20
Owners: Corina Rosenzweig
Address: 84 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.150583, -73.850496


View: Facing South (Source: Google Maps)


View: Facing North West (Source: Google Maps)

Map ID No.: #6
Tax ID: 97.12-1-21
Owners: Howard G. Dale & Gorre Eirah
Address: 54 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.149977, -73.850365



View: Facing West (Source: Google Maps)



View: Facing West (Source: Bing Maps)

Map ID No.: #8
Tax ID: 97.16-1-2
Owners: Roger & Kathy Battacharia
Address: 16 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.148672, -73.850700



View: Facing West (Source: Bing Maps)


View: Facing West (Source: Google Maps)

Map ID No.: #10
Tax ID: 97.16-1-5
Owners: Philip Raclyn
Address: 309 Scarborough Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.146657, -73.850838



View Facing South West (Source: Google Maps)



View: Facing West (Source: Bing Maps)

Map ID No.: #11
Tax ID: 97.16-1-22
Owners: Holly Hill LLC
Address: 298 Scarborough Road, Briarcliff Manor, NY 10510
GPS Coordinates: 41.146307, -73.848601



View: Facing East (Source: Google Maps)

Map ID No.: #12
Tax ID: 97.16-1-21
Owners: Jared & Katherine Solomon
Address: 366 Scarborough Road, Briarcliff Manor, NY 10510
GPS Coordinates: 41.144826, -73.849773



View: Facing East (Source: Google Maps)



View: Facing East (Source: Bing Maps)

Map ID No.: #16
Tax ID: 97.15-3-32
Owners: Jefferson House Assoc LLC
Address: 71 Charter Cir, Ossining, NY 10562
GPS Coordinates: 41.146478, -73.857455



View: Facing East (Source: Google Maps)

Map ID No.: #17
Tax ID: 97.15-3-33
Owners: Jefferson House Assoc LLC
Address: 81 Charter Cir, Ossining, NY 10562
GPS Coordinates: 41.147993, -73.857776



View: Facing East (Source: Google Maps)

Map ID No.: #18
Tax ID: 97.11-4-32
Owners: Highland Terrance Owners Corp.
Address: 123/125 South Highland Ave Unit 11-4-32, Ossining, NY 10562
GPS Coordinates: 41.149893, -73.858186



View: Facing East (Source: Google Maps)

Map ID No.: #19
Tax ID: 97.12-1-19
Owners: Highland Terrace Owners Corp.
Address: Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151281, -73.858380



View: Facing East (Source: Google Maps)

Map ID No.: #20
Tax ID: 97.12-1-19
Owners: Parkview Apartments Corp
Address: Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151745, -73.857605



View: Facing East (Source: Google Maps)

Map ID No.: #23
Tax ID: 97.11-2-36
Owners: Rosemarie Baker
Address: 22 Martin Rd, Ossining, NY 10562
GPS Coordinates: 41.15342917116034, -73.85764647006988



View: Facing East (Source: Google Maps)

Map ID No.: #25
Tax ID: 97.11-2-30
Owners: John & Marlene Green
Address: 22 Fuller Rd, Ossining, NY 10562
GPS Coordinates: 41.153958, -73.857105



View: Facing Southeast (Source: Google Maps)

Map ID No.: #26
Tax ID: 97.11-2-29
Owners: Jean and Christopher Boswell
Address: 24 Fuller Road, Ossining, NY 10510
GPS Coordinates: 41.153998, -73.856916



View: Facing East (Source: Google Maps)

Map ID No.: #27
Tax ID: 37.08-1-43
Owners: Mary Musolino
Address: 33 Fuller Rd, Ossining, NY 10562
GPS Coordinates: 41.1541978, -73.856816



View: Facing East (Source: Google Maps)

Map ID No.: #28
Tax ID: 97.08-1-44
Owners: Robert Muranelli & Rosemarie Baker
Address: 31 Fuller Rd, Ossining, NY 10562
GPS Coordinates: 41.154349, -73.85695



View: Facing Northeast (Source: Google Maps)

Map ID No.: #30
Tax ID: 97.07-7-24
Owners: Birch Brook Manor Inc
Address: 8189 South Highland Ave Unit 07-7-24, Ossining, NY 10562
GPS Coordinates: 41.154783, -73.856620



View: Facing East (Source: Bing Maps)



View: Facing East (Source: Google Maps)

Map ID No.: #32
Tax ID: 97.08-2-23
Owners: Peter & Heather Curran
Address: 3 Macy Road, Briarcliff Manor, NY 10510
GPS Coordinates: 41.154941, -73.855853



View: Facing Southeast (Source: Google Maps)

Map ID No.: #33
Tax ID: 97.08-2-22
Owners: Elaine & Vincent M. Serra
Address: 14 Meadow Pl, Briarcliff Manor, NY 10510
GPS Coordinates: 41.154508, -73.855349



View: Facing Northeast (Source: Google Maps)

Map ID No.: #34
Tax ID: 97.08-2-21
Owners: Robert E. & Dolores Peterson
Address: 15 Meadow Pl, Briarcliff Manor, NY 1051
GPS Coordinates: 41.154172, -73.855370



View: Facing Northeast (Source: Google Maps)

Map ID No.: #35
Tax ID: 97.12-1-59
Owners: Michael D. & Srirat Dannenbring
Address: 11 Meadow Pl, Briarcliff Manor, NY 10510
GPS Coordinates: 41.153929, -73.855091



View: Facing Northeast (Source: Google Maps)

Map ID No.: #36
Tax ID: 97.12-1-58
Owners: Alison Y. Medland & Kyle L. Fletcher
Address: 201 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.153348, -73.854876

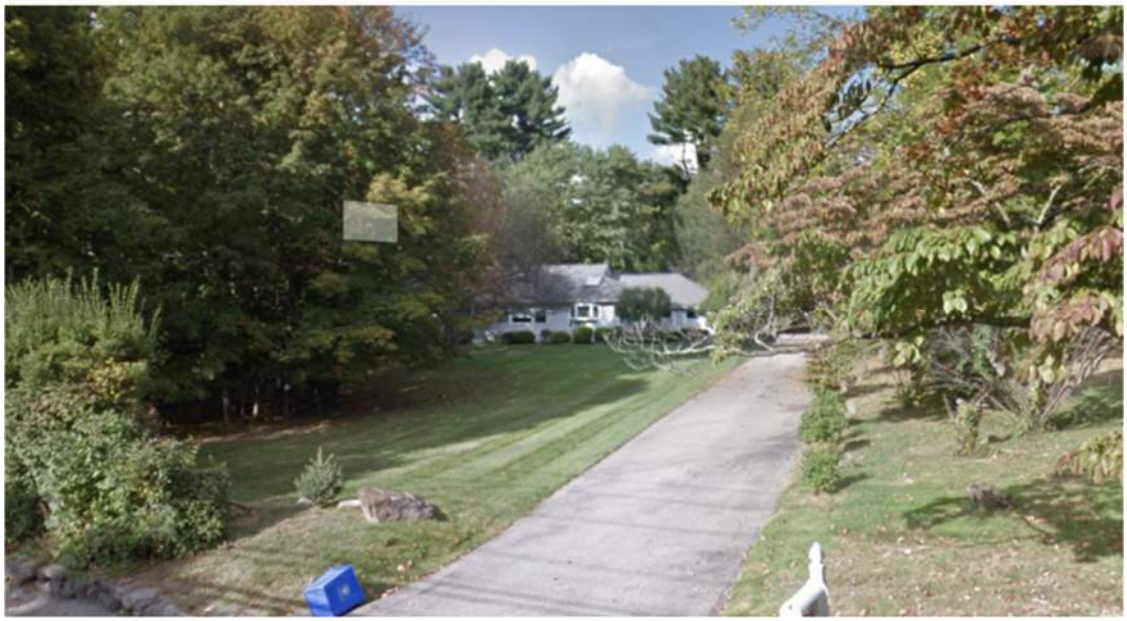


View: Facing Northeast (Source: Google Maps)



View: Facing Northeast (Source Bing Maps)

Map ID No.: #37
Tax ID: 97.12-1-57
Owners: Daniel & Laura K. Gold
Address: 181 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.152746, -73.854416

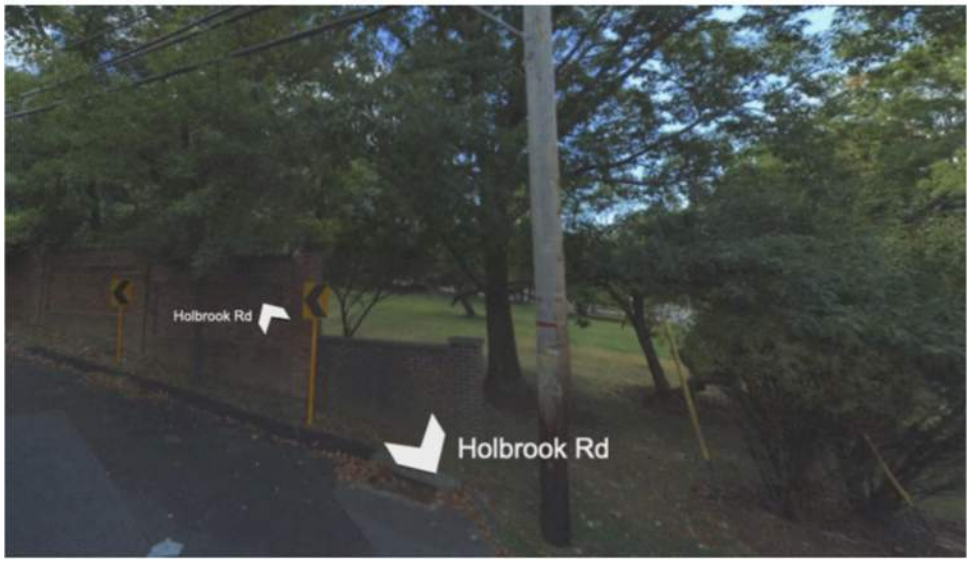


View: Facing Northeast (Source: Google Maps)

Map ID No.: #38
Tax ID: 97.12-1-10
Owners: Ridgewood Briarcliff Owner LLC
Address: Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151519, -73.854389



View: Facing South (Source: Google Maps)



View: Facing South (Source: Bing Maps)

Map ID No.: #39
Tax ID: 97.12-1-11
Owners: Ridgewood Briarcliff Owner LLC
Address: Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151463, -73.854419



View: Facing South (Source: Google Maps)



View: Aerial Imagery (Source: Google Maps)

Map ID No.: #40
Tax ID: 97.12-1-12
Owners: Michael & Francine Verrilli
Address: 178 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151775, -73.853759



View: Facing South (Source: Bing Maps)

Map ID No.: #41
Tax ID: 97.12-1-13
Owners: Suzanne Whitmore
Address: 152 Holbrook Rd, Briarcliff Manor, NY 10510
GPS Coordinates: 41.151759, -73.853319



View: Facing South (Source: Google Maps)



View: Facing South (Source: Bing Maps)

Appendix R-6
SHPO Consolidated Response

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NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

May 5, 2022

Nadia Jagdat
Development Associate
YSG Solar Development Company LLC
79 Madison Avenue
8th Floor
New York, NY 10016

Re: DEC
Briarcliff Solar/5MW/40 of 78 acres
345 Scarborough Rd, Briarcliff Manor, Westchester County
22PR01760

Dear Nadia Jagdat:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6NYCRR Part 617).

We note the project site is located where the Philips Research North America Campus is currently located, eligible to be listed on the State and National Registers of Historic Places (S/NRHP) and within 350 feet of Holly Hill, a S/NRHP-Eligible Building District and the Old Croton Aqueduct, a National Historic Landmark. We have reviewed the solar array drawings dated November 18, 2021, and the documentation of all properties 50-years of age or older located adjacent or within the project boundaries dated April 14, 2022, for the proposed 40-acre, 5,000 KWAC solar photovoltaic array system located within the Town of Briarcliff Manor along Scarborough Road.

The project site is located within a former research campus that features a combination of open lawn areas surrounded by more densely wooded areas. Surrounding the former campus are residential neighborhoods, which are also surrounded by dense vegetation. The project description calls for the demolition of the Philips Research North America Campus. Please note that in accordance with Section 14.09 of the New York State Historic Preservation Act of 1980, demolition of a historic building constitutes an Adverse Impact to the resource. This is an action that can only move forward after all prudent and feasible alternatives to demolition have been considered. At this time, we urge you to reconsider demolition of the research campus. In order to continue our review of the proposed work, the OPRHP requests the following information:

1. Design drawings for the proposed solar facility, including the existing and proposed site plans. The Old Croton Aqueduct boundaries should be noted on the site plan, as well as all proposed fencing and screening methods.
2. Documentation of the Philips Research North America Campus, including existing conditions photographs of the interior and exterior and an engineer's report documenting any potential structural failures that may currently exist.
3. Alternatives exploring locations for the proposed solar arrays that do not require the demolition of the Philips Research North America Campus.

Please submit the requested information via our Cultural Resource Information System (CRIS) at www.nysparks.com/shpo/online-tools/. To submit, log into CRIS as a guest, choose "submit" at the very top of the menu, and then choose "submit new information for an existing project" You will need this project number and your email address.

If you have any questions, please feel free to reach out via email.

Sincerely,



Sara McIvor
Historic Preservation Technical Specialist
E-mail: sara.mcivor@parks.ny.gov

cc: C. Vandrei – NYS DEC

Appendix R-7
Litigation Reports

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GAINES, NOVICK, PONZINI, COSSU & VENDITTI, LLP
1133 WESTCHESTER AVENUE, SUITE N-202
WHITE PLAINS, NEW YORK 10604
(914) 288-9595
FAX (914) 288-0850

John M. Murtagh
e-mail: jmurtagh@gainesllp.com
Office: (914) 831-6239

Service not accepted by fax or email

October 2, 2020

VIA E-MAIL

Hon. Stuart Halper
Associate Village Justice
Village of Briarcliff
1111 Pleasantville Road
Briarcliff Manor, NY 10510

People v Ridgewod Real Estate Partners (345 Scarborough Road)

Your Honor:

As you know we represent the Village in this matter. We are presently scheduled for a court conference on October 7, 2020. However, we are compelled today to alert the Court to an immediate urgent emergency development.

We write today due to repeated incidents of trespassing since we were last in Court (copies of Police Reports enclosed), and the owner's failure to expeditiously remedy the ongoing violations outlined in Court and as outlined below. We write also because, last evening, apparently again as a result of trespassers, a fire broke out in the main building and on its roof which required the immediate response of Village Fire personnel as well as mutual aid response from as many as four surrounding municipalities involving nine fire vehicles and approximately eighty volunteer firefighters. By the Grace of God, nobody was injured or killed responding to the fire. However, all of this would have been unnecessary had the owner maintained and secured its property in the first place or promptly responded to the Village's simple requests for Code compliance.

As Your Honor is aware, the Village is seeking immediate remediation of countless dangerous conditions on the site which violate the State Property Maintenance Code, the State Fire Code and local Village Code provisions. In addition to being clear legal violations, these conditions are generally unsafe, unhealthy, deleterious to the neighborhood and have invited repeated occasions of trespassing by vagrants, adolescents and others. The repeated violations of the various Codes have also cost the Village in terms of manpower and resources that should be unnecessary to secure and patrol a private commercial parcel.

The owner met with Village officials on the property and, on September 25, 2020, submitted a proposed "Compliance Plan" a copy of which we are transmitting with this letter.

The Plan has been reviewed by the Building Department and has been found to be deficient in several respects

Preliminarily, it should be noted that in violation of the 2020 Property Maintenance Code of New York Section 107, "Unsafe Structures and Equipment", the premises has been deemed an unsafe structure, riddled with unsafe and/or vandalized equipment that results in the structure being unfit for human occupancy.

Additionally, the following specific aspects of the Plan were found to be unsatisfactory:

The Plan calls for a "service" to regularly patrol the area, an action that is imperative given the amount of traffic from trespassers in the past. The Plan also calls for the possibility of boarding up the windows of the premises. The Village requests an order from the Court directing the immediate retention of a qualified licensed and bonded security service providing 24 hour security as well as boarding up of *all* fenestrations and, otherwise, properly securing the premises and structures against tresspassers.

The Plan indicates that "No Trespassing" signs will be placed at three locations on the premises. In violation of 2020 Fire Code of New York State Section 311.5 "Placards", the plan does *not* properly identify the size, and location, and symbol of placards to be posted.

To comply with the 2020 Fire Code of New York State Section 311.2, "Safeguarding vacant premises", the plan proposes to install chain link fencing around industrial equipment on the west side of the main building. Section 107.1.2 of the Property Maintenance Code of New York State ("PMCNYS") defines "Unsafe Equipment to include:

> *[A]ny boiler, heating equipment, elevator, moving stairway, electrical wiring or device, flammable liquid containers or other equipment on the premises or within the structure that is in such disrepair or condition that such equipment is a hazard to life, health, property or safety of the public or occupants of the premises or structures.*

The Village requests an order directing the immeidate removal and disposal of *all* of the industrial equipment identified rather than the mere enclosing of same within chain link fencing.

We are prepared to address all of the above in Court on October 7, but, in light of the very real risk posed to human life, as demonstrated by last night's fire, we felt it incumbent to immediately bring these matters to Your Honor's attention.

Respectfully,

John M. Murtagh

cc: Kate Roberts. Esq. (via e-mail)

Briarcliff Manor Police Dept
1111 PLEASANTVILLE ROAD
BRIARCLIFF MANOR, NY 10510-
(914)941-2130

Entry/CC#: **BM-013166-20** Date: **09/19/2020** Time: **19:03** Tour: **3** Desk Officer: **1111**

Call Type.....: **NOISE COMPLAINT** Priority..: How Received: **TELEPHONE**

Caller.....:
Bus. Name..:
Address....: **90 SHADOW BROOK LN**
City/St/Zip: **BRIARCLIFF MANOR, NY 10510-** Call Back #:

Location of Assignment: **345 SCARBOROUGH ROAD, BRIARCLIFF MANOR**
Cross Street.....:
Business Name.....: **PHILIPS LABORTORIES**
Description.....:
Disposition.....: **CLOSED**

Post: **WEST** Dispatched: **Y** Dispatched Date: **09/19/2020** Call Taker: **1106**

OFFICERS INVOLVED

Serial #:CWILK Rank:PO Name:CODY WILKINSON
Serial #:JRAFF Rank:PO Name:JOHN RAFFAELE
Serial #:1111 Rank:SGT Name:WILLIAM A BASSETT

UNITS INVOLVED

Unit: 12 Officers: (CWILK)
Disp. Time: 19:03 | Arv. Time: 19:10 | Comp Time: 20:00
Rcv'd to Comp: 0:57 :: Disp to Comp: 0:57

Unit: 14 Officers: (JRAFF)
Disp. Time: 19:03 | Arv. Time: 19:10 | Comp Time: 20:00
Rcv'd to Comp: 0:57 :: Disp to Comp: 0:57

Unit: 17 Officers: (1111)
Disp. Time: 19:03 | Arv. Time: 19:10 | Comp Time: 20:00
Rcv'd to Comp: 0:57 :: Disp to Comp: 0:57

ASSOCIATED NUMBERS

PERSONS INVOLVED

Name.....:MCCARTHY, MICHAEL DOB:05/19/2004
Address.....:1 NEWTON CT
City/State/Zip:CROTON ON HUDSOB, NY 10520-
Phone Number..:
Sex.....: Race:
Person Type...:INTERVIEWED

Name.....:VALENTINE, LUCAS DOB:01/06/2004
Address.....:21 MOUNTAIN TRL
City/State/Zip:CROTON ON HUDSON, NY 10520-
Phone Number..:
Sex.....: Race:
Person Type...:INTERVIEWED

Mobile Number..: (914) 703-0184
Sex.....: Race:
Person Type...: INTERVIEWED

NARRATIVE

Caller reports hearing people on the Philips Laboratory property. Area checked and a group of Juveniles were located near the lower building. All parties parents were contacted and escorted off the property. Officer reports finding 2 five gallon gas cans in the front of the building.
EOR #32

Individuals were warned and escorted off the property.

EOR #32

COMPLIANCE NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC AND UTILITY MAP," PREPARED BY JMC, PLLC. DATED 11/08/2017
2. THE OWNER SHALL ENSURE THAT A SERVICE REGULARLY PATROLS THE SITE TO DETER TRESPASSERS
3. ALL COMBUSTIBLE MATERIALS (PETROLEUM PRODUCTS, FLAMMABLE MATERIALS, ETC.) SHALL BE IDENTIFIED, REMOVED AND DISPOSED OF PROPERLY IN ACCORDANCE WITH SECTION 311.3 OF THE 2020 FIRE CODE OF NEW YORK STATE
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6. ALL FIRE HYDRANTS SHALL BE TESTED TO ENSURE ADEQUATE FLOW AND PRESSURE FOR FIRE SUPPRESSION

COMPLIANCE LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE LINE
- EXISTING WATER MAIN LINE AND SIZE
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- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING SIGN POST
- EXISTING LIGHT POLE
- EXISTING TREE
- EXISTING PLANTS TO BE REMOVED
- PROPOSED CHAIN LINK FENCE
- EXISTING DUMPSTER TO BE REMOVED

CONNECT PROPOSED FENCE INTO EXISTING FENCE

ALL BATTERIES AND ASSOCIATED EQUIPMENT SHALL BE REMOVED BEFORE STRUCTURE IS DEMOLISHED

INSTALL 6' HIGH CHAIN LINK FENCE

CONNECT PROPOSED FENCE INTO EXISTING FENCE

APPROXIMATE LOCATION OF DUMPSTER TO BE REMOVED

INSTALL 6' HIGH CHAIN LINK FENCE 4' AROUND ENTIRE STRUCTURE

REMOVE ALL COMBUSTIBLE MATERIALS FROM BUILDING

EXISTING 20,000 OIL TANK TO BE CLEANED OUT AND REMOVED

CONNECT PROPOSED FENCE INTO EXISTING FENCE

EXISTING CHAIN LINK FENCE TO BE REPAIRED

CLEAR DEBRIS FROM THE AREA SURROUNDING THE BUILDING

CONNECT PROPOSED FENCE INTO EXISTING FENCE

ALL GARAGE DOORS AND ENTRY DOORS SHALL BE SECURED PROPERLY

REPLACE EXISTING LOCKING REPAIR GATE AND CHAIN LINK FENCE

INSTALL GATE FOR CONTRACTOR ACCESS TO BUILDING

NO TRESPASSING SIGN SHALL BE INSTALLED ON CHAIN LINK FENCE

CONNECT PROPOSED FENCE INTO EXISTING FENCE

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CLEAR DEBRIS FROM THE AREA SURROUNDING THE BUILDING

CLEAR DEBRIS FROM ROADWAY TO ENSURE A CLEAR PATH FOR ALL EMERGENCY VEHICLES

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EXISTING 275 OIL TANK TO BE CLEANED OUT AND REMOVED

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2-8' CHAIN LINK FENCE SEGMENTS SHALL CONNECT TO EXISTING FENCE

A KNOX LOCK SHALL BE PROVIDED AT EXISTING GATE FOR EMERGENCY VEHICLE ACCESS

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NO TRESPASSING SIGN SHALL BE INSTALLED ON CHAIN LINK FENCE

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Property Preservation: Boarding Windows & Doors

If boarding is approved, ensure that all first and ground floor windows, including the basement, are covered with a strong plywood covering that adheres to the wall/frame/sill/sill bottom. The board should cover the entire frame and window and should be secured in place with carriage bolts. Ensure these bolts are placed in a manner that does not compromise a health and safety risk.

If there are any opening bars on the windows or they are too small for someone to climb through them up, ensure the property. They do not need to be boarded up.

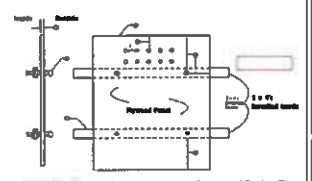
You do not need to board up the windows above the first floor unless there can be outward access the use of a ladder or from an adjacent property, and the window is large enough for someone to climb through. Any windows that don't need to be boarded should be fully secured.

Remove any broken glass from windows and doors.

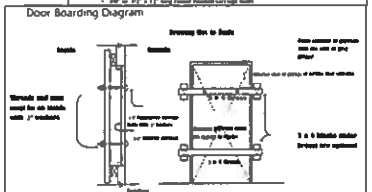
Materials Used for Property Preservation Boarding:

- 1/2" Plywood for windows
- 3/4" or 5/8" Plywood for door ways
- 2" x 4" Studs
- 3/8" or 1/2" x 12" long round threaded carriage bolts

Window Boarding Diagram



Door Boarding Diagram



PROPERTY PRESERVATION WINDOW AND DOOR BOARDING DETAILS

(REFER TO THE LATEST DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD) STANDARDS FOUND AT HUD.GOV)

RIDGEWOOD REAL ESTATE PARTNERS
25A HANOVER ROAD, SUITE 310
FLORHAM PARK, NJ

JMC

COMPLIANCE PLAN

PHILIPS RESEARCH PROPERTY DEVELOPMENT
349 BEDFORD-KISCO ROAD
VILLAGE OF BEDFORD HILLS, NEW YORK

C-1

Appendix R-8
Response to Sarah McIvor (Draft)

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YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

Sarah McIvor
Historic Preservation Technical Specialist
New York State Office of Parks, Recreation and Historic Preservation
Division for Historic Preservation, Peebles Island
PO Box 189
Waterford, NY 12188-0189
Sara.McIvor@parks.ny.gov

May 9, 2022

Re: Briarcliff Solar/5MW/40 of 78 acres
345 Scarborough Rd, Briarcliff Manor, Westchester County
22PR01760

Dear Ms. McIvor,

Thank you for providing your letter response dated May 5, 2022, to YSG's April 14, 2022 request for comments on our proposed solar project located at 345 Scarborough Rd in Briarcliff Manor. As you state in your letter the project is located at the former Philips Research North America campus.

Per your comment letter OPRHP is requesting the following additional information:

1. Design drawings for the proposed solar facility, including the existing and proposed site plans. The Old Croton Aqueduct boundaries should be noted on the site plan, as well as all proposed fencing and screening methods.
2. Documentation of the Philips Research North America Campus, including existing conditions photographs of the interior and exterior and an engineer's report documenting any potential structural failures that may currently exist.
3. Alternatives exploring locations for the proposed solar arrays that do not require the demolition of the Philips Research North America Campus.

Old Croton Aqueduct

As indicated in the figure below, the Old Croton Aqueduct is located approximately 225-250 feet to the west of the proposed project. In addition to being over 225 feet away from the project site, the Old Croton Aqueduct lies a minimum of 60 feet below the grade of the proposed site. When combining the elevation difference and the fact that the area between the two sites is wooded, the site will not be visible from The Walking trail adjacent to the project. The revised set of plans, included as Attachment 1, more clearly identifies the location of the old croton aqueduct relative to the project site.

DRAFT

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215



Building Condition Documentation

The Research Facility consists of four main interconnected buildings designated as Buildings A, B, C, and D and related improvements including a Maintenance Garage, basketball court, tennis courts, volleyball courts, helipad, and patio area. The property is accessed by a private drive known as Shadow Brook Lane. Asphalt paved parking is present to the north and south of the Research Facility. The remainder of the Site is either grass field or wooded. Water and power easements are present in the area occupied by Shadow Brook Lane and a sewer easement runs north/south.

Philips lighting constructed the original buildings (A and B) in 1964 for use as a research facility and office building. Philips added building C in 1980 and building D in 1988. The facility has been vacant since Philips ceased their operations at the site in 2015.

As indicated in "People vs Ridgewood Real Estate Partners (345 Scarborough Rd)", see Attachment 2, the facility has been subject of litigation between the village of Briarcliff Manor

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

and the previous owner. In the time since the building's occupancy the facility has fallen into disrepair and has been subject to repeated incidents of trespassing. On October 1, 2020 “as a result of the trespassers, a fire broke out in the main building and on its roof which required the immediate response of village fire personnel as well as mutual aid response from as many as four surrounding municipalities involving 9 fire vehicles and approximately 80 volunteer firefighters.”

Further, the premises has been deemed an unsafe structure, riddled with unsafe and/or vandalized equipment that results in the structure being unfit for human occupancy, in accordance with the 2020 Property Maintenance Code of New York State Section 107 “Unsafe Structures and Equipment”.

During the week of May 2, 2022, the property management company has reported additional trespassing violations that has necessitated the resecuring of points of entry. Photos of the damage incurred to the building over the building’s vacancy are provided in Attachment 3.

Project Alternatives

Community solar projects require a significant footprint in a contiguous land area. Due to the size required for this proposed project other parcels of land are not available in Westchester County for a project of this nature. Further, as documented above in Attachment 2, and visually presented in Attachment 3 the building currently poses a risk to the community.

In conclusion, YSG believes that we are being stewards of the environment and the community's history by removing a facility that it is a hazard to the local community and replacing it with a clean energy facility that will serve the local community. Please feel free to reach out to me via email if you would like to discuss the project further.

Thank you

Best regards,

Jim Taravella
YSG Solar
James.T@YSGSolar.com

DRAFT

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

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DRAFT

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ATTACHMENT 1

REVISED SITE PLANS

DRAFT

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
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DRAFT

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ATTACHMENT 2

LETTER TO THE COURT REGARDING BUILDING CONDITIONS

DRAFT

YSG Solar Development Company, LLC
79 Madison Avenue, 8th Floor
New York, NY 10016
(212) 389-9215

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DRAFT

GAINES, NOVICK, PONZINI, COSSU & VENDITTI, LLP
1133 WESTCHESTER AVENUE, SUITE N-202
WHITE PLAINS, NEW YORK 10604
(914) 288-9595
FAX (914) 288-0850

John M. Murtagh
e-mail: jmurtagh@gainesllp.com
Office: (914) 831-6239

Service not accepted by fax or email

October 2, 2020

VIA E-MAIL

Hon. Stuart Halper
Associate Village Justice
Village of Briarcliff
1111 Pleasantville Road
Briarcliff Manor, NY 10510

People v Ridgewod Real Estate Partners (345 Scarborough Road)

Your Honor:

As you know we represent the Village in this matter. We are presently scheduled for a court conference on October 7, 2020. However, we are compelled today to alert the Court to an immediate urgent emergency development.

We write today due to repeated incidents of trespassing since we were last in Court (copies of Police Reports enclosed), and the owner's failure to expeditiously remedy the ongoing violations outlined in Court and as outlined below. We write also because, last evening, apparently again as a result of trespassers, a fire broke out in the main building and on its roof which required the immediate response of Village Fire personnel as well as mutual aid response from as many as four surrounding municipalities involving nine fire vehicles and approximately eighty volunteer firefighters. By the Grace of God, nobody was injured or killed responding to the fire. However, all of this would have been unnecessary had the owner maintained and secured its property in the first place or promptly responded to the Village's simple requests for Code compliance.

As Your Honor is aware, the Village is seeking immediate remediation of countless dangerous conditions on the site which violate the State Property Maintenance Code, the State Fire Code and local Village Code provisions. In addition to being clear legal violations, these conditions are generally unsafe, unhealthy, deleterious to the neighborhood and have invited repeated occasions of trespassing by vagrants, adolescents and others. The repeated violations of the various Codes have also cost the Village in terms of manpower and resources that should be unnecessary to secure and patrol a private commercial parcel.

The owner met with Village officials on the property and, on September 25, 2020, submitted a proposed "Compliance Plan" a copy of which we are transmitting with this letter.

The Plan has been reviewed by the Building Department and has been found to be deficient in several respects

Preliminarily, it should be noted that in violation of the 2020 Property Maintenance Code of New York Section 107, "Unsafe Structures and Equipment", the premises has been deemed an unsafe structure, riddled with unsafe and/or vandalized equipment that results in the structure being unfit for human occupancy.

Additionally, the following specific aspects of the Plan were found to be unsatisfactory:

The Plan calls for a "service" to regularly patrol the area, an action that is imperative given the amount of traffic from trespassers in the past. The Plan also calls for the possibility of boarding up the windows of the premises. The Village requests an order from the Court directing the immediate retention of a qualified licensed and bonded security service providing 24 hour security as well as boarding up of *all* fenestrations and, otherwise, properly securing the premises and structures against tresspassers.

The Plan indicates that "No Trespassing" signs will be placed at three locations on the premises. In violation of 2020 Fire Code of New York State Section 311.5 "Placards", the plan does *not* properly identify the size, and location, and symbol of placards to be posted.

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We are prepared to address all of the above in Court on October 7, but, in light of the very real risk posed to human life, as demonstrated by last night's fire, we felt it incumbent to immediately bring these matters to Your Honor's attention.

Respectfully,

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cc: Kate Roberts. Esq. (via e-mail)

Briarcliff Manor Police Dept
1111 PLEASANTVILLE ROAD
BRIARCLIFF MANOR, NY 10510-
(914)941-2130

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City/St/Zip: **BRIARCLIFF MANOR, NY 10510-** Call Back #:

Location of Assignment: **345 SCARBOROUGH ROAD, BRIARCLIFF MANOR**
Cross Street.....:
Business Name.....: **PHILIPS LABORTORIES**
Description.....:
Disposition.....: **CLOSED**

Post: **WEST** Dispatched: **Y** Dispatched Date: **09/19/2020** Call Taker: **1106**

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Serial #:CWILK Rank:PO Name:CODY WILKINSON
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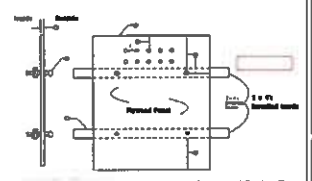
You do not need to board up the windows above the first floor unless there can be outward access the use of a ladder or from an adjacent property, and the window is large enough for someone to climb through. Any windows that don't need to be boarded should be fully secured.

Remove any broken glass from windows and doors.

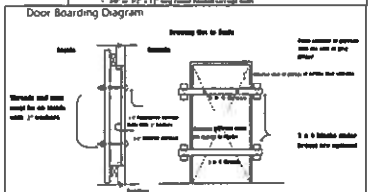
Materials Used for Property Preservation Boarding:

- 1/2" Plywood for windows
- 3/4" or 5/8" Plywood for door ways
- 2" x 4" Studs
- 3/8" or 1/2" x 12" long round threaded carriage bolts

Window Boarding Diagram



Door Boarding Diagram



PROPERTY PRESERVATION WINDOW AND DOOR BOARDING DETAILS

(REFER TO THE LATEST DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD) STANDARDS FOUND AT HUD.GOV)

RIDGEWOOD REAL ESTATE PARTNERS
25A HANOVER ROAD, SUITE 310
FLORHAM PARK, NJ

JMC

COMPLIANCE PLAN

PHILIPS RESEARCH PROPERTY DEVELOPMENT
349 BEDFORD-KISCO ROAD
VILLAGE OF BEDFORD HILLS, NEW YORK

C-1

ATTACHMENT 3

SITE PHOTOS

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View of the Northeastern Building's Eastern Face



View of the Facility Patio and the Building's Southern Face



View of the Southwestern Building's Southern Face



View of the Facility's Wastern Face looking South along the Western Maintenance Drive



View of the North Face of the Facility Maintenance Garage



View of the Facility's Northern Face



View of the Northeastern Building's Eastern Face



View of the Building's Western Face



View of the Facility's Eastern Face



Building Interior View



Building Interior View



Building Interior View

Appendix S
FAA Determination

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Federal Aviation Administration

« OE/AAA

Notice Criteria Tool

Notice Criteria Tool - Desk Reference Guide V_2018.2.0

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9.

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

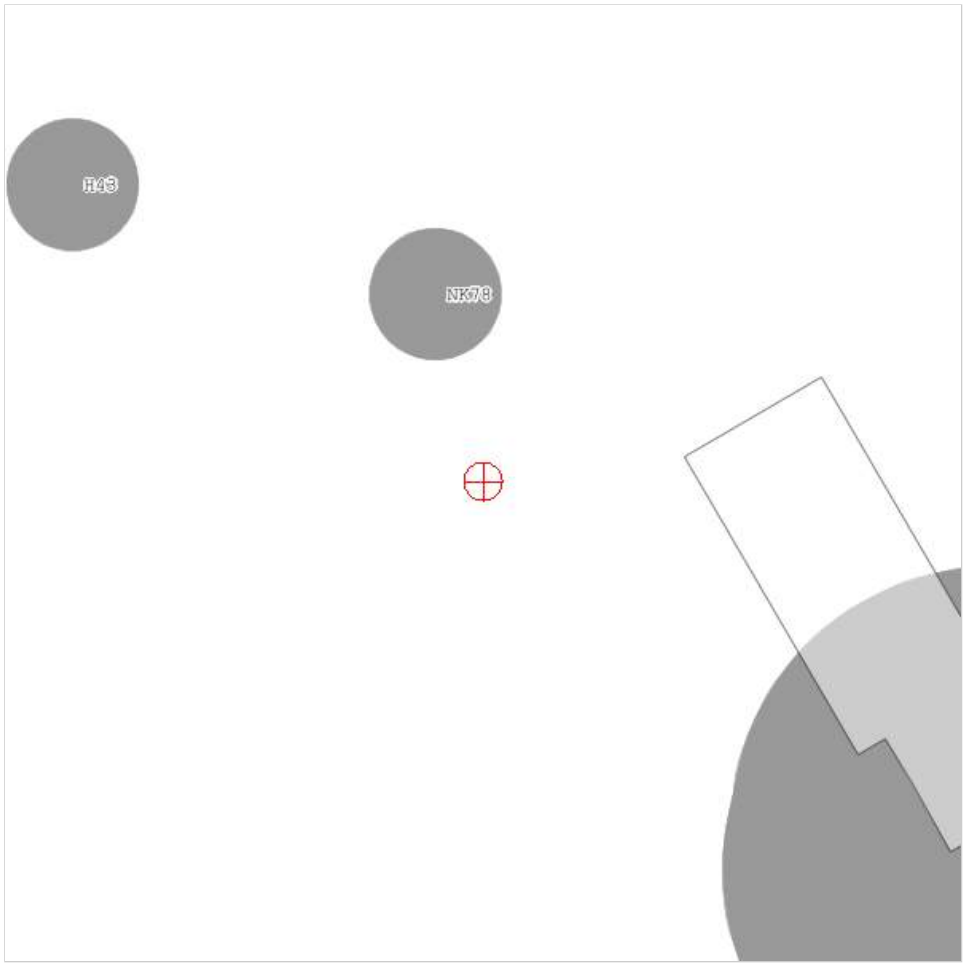
If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:	41 Deg 08 M 53.5 S N
Longitude:	73 Deg 51 M 18.2 S W
Horizontal Datum:	NAD83
Site Elevation (SE):	295 (nearest foot)
Structure Height :	9 (nearest foot)
Traverseway:	No Traverseway (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	(•) No ( ) Yes

Results

You do not exceed Notice Criteria.


H43
NK78