DRAFT ENVIRONMENTAL IMPACT STATEMENT

Northeast Interstate Logistics Center

NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST
PUTNAM COUNTY, NY

VOLUME II-- APPENDICES

Prepared for: Putnam Seabury Partners, L.P.
287 King Street
Chappaqua, NY 10514

Lead Agency: **Southeast Planning Board**

Prepared by:

Project 14012

Initial Submission Date: **June 2018**

Northeast Interstate Logistics Center

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Town of Southeast, NY 10509
Putnam County, NY
Tax Map Section 45, Block 1

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VOLUME II--APPENDICES

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The New York Times | https://nyti.ms/2h1pAE2

Where Internet Orders Mean Real Jobs, and New Life for Communities

Vast warehouses are being built, fueling a demand for lower-skilled workers and reviving areas that once relied on manufacturing.

By NATALIE KITROEFF OCT. 22, 2017

BETHLEHEM, Pa. — Ellen Gaugler remembers driving her father to the Bethlehem Steel mill, where he spent his working years hauling beams off the assembly line and onto rail cars.

When the Pennsylvania plant shut down about two decades ago, Ms. Gaugler thought it was the last time she or anyone in Bethlehem would come to its gates to find a job that paid a decent wage for a physical day of work.

But she saw an ad in the paper last year for a position at a local warehouse that changed her mind. She'd never heard of Zulily, the online retailer doing the hiring, but she knew the address: It was on the old mill site, steps from where her father worked.

"When I came for the interviews I looked up and said, 'Oh, my God, I feel like I am at home,'" Ms. Gaugler said. She got the job.

As shopping has shifted from conventional stores to online marketplaces, many retail workers have been left in the cold, but Ms. Gaugler is coming out ahead. Sellers like Zulily, Amazon and Walmart are competing to get goods to the buyer's doorstep as quickly as possible, giving rise to a constellation of vast warehouses that have

fueled a boom for workers without college degrees and breathed new life into pockets of the country that had fallen economically behind.

Warehouses have produced hundreds of thousands of jobs since the recovery began in 2010, adding workers at four times the rate of overall job growth. A significant chunk of that growth has occurred outside large metropolitan areas, in counties that had relatively little of the picking-and-packing work until recently.

“We are at the very beginning of a rather large transformation, and the humble warehouse is the leading edge of this,” said Michael Mandel, chief economic strategist at the Progressive Policy Institute in Washington. “These fulfillment center jobs are not being created in the tech hubs that were growing before. We’ve broadened the winner’s circle.”

Americans have grown more comfortable ordering everything on the internet, including bulky wares like canoes and refrigerators. Warehouses, as a result, have become gargantuan, doubling in size since 2010, according to CBRE, a real estate services firm.

And while robots have started to intervene in the process, it still takes a lot of bodies to move hundreds of thousands of boxes in and out of these buildings every day. Warehouses serving the largest e-commerce sites typically employ upwards of 2,000 people.

The hubs of this network are far-flung. In Bullitt County, Ky., south of Louisville, warehouse employment surged to 6,000 in 2017 from 1,200 in 2010, according to the Labor Department. In Kenosha, Wis., once a manufacturing hub whose auto plants turned out Nash Ramblers and Plymouth Horizons, warehouse jobs grew to 6,200 from 250 in the same period.

Those places have the advantage of being surrounded by highways and rail lines that lead to some of the nation’s largest cities. They also have an abundance of cheap land and labor, two assets that have become increasingly vital to companies selling online.

The same calculus has made a warehouse mecca out of the land that houses the carcass of Bethlehem Steel, giving natives like Ms. Gaugler a sense that their hometown may be thriving.

Ms. Gaugler, 54, earns $13.50 an hour putting together shipments at the Zulily warehouse, where employees tend to refer to their end customer as “Mom.” She works 10-hour shifts from Wednesday through Saturday, and puts in for overtime whenever she can.

“I like to get those orders out to Mom,” she said. The work is physically demanding, she said, but it’s straightforward. She gets a list of items to pull from shelves every morning — toys, glassware, baby clothes — and works her way to the bottom as quickly as possible. She’s gotten two raises, of 25 cents each, over the last year.

There are people in town who are nostalgic for the time when the mill filled the sky with black smoke and the furnaces churned all day. Not Ms. Gaugler. “These are secure jobs,” she said. “With the steel, you didn’t know if you would have a job the next day.”

Her father may have had a better deal at the mill — he got 13 weeks of vacation and “didn’t have to worry about bills every so often,” Ms. Gaugler said. But she only has an associate degree, and said this job pays better than most of her alternatives. It also comes with health insurance, paid time off and a 401(k) retirement plan.

Before the warehouses came to the area, it had little to offer in the way of decent-paying, low-skilled work. But Amazon saw something promising in the city’s bones.

It is flanked by Interstate 78, providing a gateway to the nation’s biggest metropolitan area — New York is 80 miles away — and putting seven other states within a day’s drive.

“It’s location, being able to serve customers on the Eastern Seaboard and the Mid-Atlantic,” said Ashley Robinson, an Amazon spokeswoman. “It’s the

infrastructure available to move those trucks out of the Lehigh Valley. It's the work force."

The company opened two modest facilities outside Allentown, Bethlehem's neighbor to the west, a place made famous by a Billy Joel song about the death of factory jobs. Other retailers rushed in, drawn partly by incentives, including abatements and credits, allowing companies that developed on the steel mill land to save hundreds of thousands on their tax bills over 10 years.

As a result, the stretch of eastern and central Pennsylvania that includes the Lehigh Valley has grown faster than any other market in the country over the last five years, according to CBRE. While retailers tend to bulk up their facilities with temporary helpers around the holidays — Amazon has announced plans to hire 120,000 seasonal employees by the end of the year — they have also taken on an army of full-time workers. Warehouse employment in a two-county area that includes Bethlehem jumped to 15,200 in 2017, from 5,200 in 2010.

"I don't know of another place in the world that has gone from a submarket to a global hub in eight years," said David Egan, the global head of industrial and logistics research at CBRE. "It's undeniable that it is a key, crucial market for global trade."

Some of the biggest players in the warehouse game have staked a claim to Lehigh Valley land. Walmart has two huge facilities in Bethlehem. FedEx is building one of its biggest ground locations in the nation in the area, and the United Parcel Service opened a new hub near the New Jersey border last year to handle the torrential volume of traffic coming through eastern Pennsylvania.

The boom in warehouses has created a seemingly endless appetite for stockers, pickers and packers, turning the town into a magnet for people in need of a second chance. Omar Pellot is one of them.

Mr. Pellot left the Bronx, where he was born, because it seemed as if the city had run out of jobs for people with his particular résumé.

He says he started dealing drugs at the age of 8, on the guidance of his father, a "drug dealer turned drug addict." He was in and out of jail as a teenager and spent a year on Rikers Island as a 17-year-old, he said. After that stint, he had a hard time finding work in New York, so he relocated to Florida and eventually moved to the Lehigh Valley, where, he had heard, the job market was "awesome."

He got a job at Amazon almost immediately. When the company asked about his background, he said, "I explained it to them — you know, I was young and naïve and stupid."

In a year as a picker — retrieving items from vast shelving units — Mr. Pellot said he walked about 10 miles on his night shift, and got two raises that pushed his hourly pay to $14.30. He passed a test to become a forklift driver and has his sights set on becoming a supervisor.

Now 38, he spent his childhood "thinking that street life would make me a man," he said. "But this is what makes me a man, working hard."

The shifts in warehouses may be long, and the work tedious and exhausting, but they are a better bet for people like Mr. Pellot than anything else in eastern Pennsylvania. The average warehouse worker in the area earns $14.46 an hour, compared with $12.67 for those in retail sales and $10.85 for waiters.

"The conventional wisdom is that retail jobs are better and that losing them is bad for an economy," said Don Cunningham, president of the Lehigh Valley Economic Development Corporation. "The reality is that fulfillment jobs are paying a higher wage and offering more long-term opportunity."

Lingering over Bethlehem is the unnerving question of when, exactly, the robots will ruin the party. In a Walmart fulfillment center that takes up as much land as a big-league ballpark, machines have begun to take on some of the tasks involved in getting people their goods within a day of a click.

As boxes careen down a conveyor belt on their way out of the building, tiny devices known as "shoes" follow alongside and jerk forward to push the packages into chutes that funnel them into the truck they are destined for.

Box-shaped machines glide along shelves to snatch crates and deposit them onto a conveyor. There are no accidents on these routes — right before two boxes are about to crash into each other, a combination of sensors and software stops one and lets the other pass.

But for now, humans are still needed, in ever-increasing numbers.

“There’s still a lot of stuff that gets done not necessarily by hand, but aided by the use of labor,” said David Tarnosky, the general manager of the warehouse. Walmart started the year with around 1,100 full-time employees there, and doubled that number by October.

“We won’t stop hiring through peak of this year,” Mr. Tarnosky said. By this time next year, he will have hired hundreds more.

Robert Gebeloff contributed reporting from New York.

A version of this article appears in print on October 23, 2017, on Page A1 of the New York edition with the headline: Idle Steel Mills Rumble to Life As Online Sellers’ Warehouses.

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BUSINESS DAY

As Amazon Moves In, Demand for Warehouse Space Climbs

Square Feet

By MICAH MAIDENBERG OCT. 24, 2017

For the modest warehouse, this is a golden age.

Boxy, unadorned and often overlooked, these properties are suddenly in hot demand in many parts of the country, thanks in part to a rise in e-commerce as consumer shopping habits move online. Retailers like Amazon and Walmart are snapping up space once reserved for makers of office furniture and home flooring.

For years now, consumers have been purchasing more products online. In the second quarter, e-commerce sales topped more than $111 billion on a seasonally adjusted basis, or 8.9 percent of all retail sales, according to the Census Bureau. Industry forecasters expect e-commerce sales to continue growing.

Warehouses often reveal little about what goes on within their walls, but the buildings make possible the rapid delivery that consumers now expect from online retailers. They serve as storage and distribution points for products ranging from auto parts to pharmaceuticals. And warehouse jobs have grown rapidly since 2010, forming a critical part of the employment base in communities across the country.

As developers try to catch up, they are considering some unusual solutions, like constructing multistory warehouses and demolishing struggling malls to make way for sprawling industrial properties.

“This is the best I’ve seen it in my 35-year career,” said Craig S. Meyer, president of the logistics and industrial services group for the Americas at the commercial real estate company JLL.

There is relatively little in the way of available warehouse space for rent in many metropolitan regions, especially along the coasts, where land is at a premium. Nationwide, the vacancy rate stood at 5.2 percent at the end of September, lower than the average rate of 8.1 percent over the previous decade, according to JLL. Asking rental rates hit a high of $5.40 per square foot this fall.

Just outside of Cincinnati, two real estate development companies, Al. Neyer and the Hillwood Development Company, recently put the finishing touches on a development called the Hebron Logistics Center. Located on a 49-acre property a few miles from the Cincinnati/Northern Kentucky International Airport in Hebron, Ky., the project includes a pair of huge buildings, the larger of which covers more than 589,000 square feet — the equivalent of about 10 football fields — and has 36-foot-high ceilings. The smaller structure measures around 209,500 square feet.

Both buildings, built on speculation that tenants will emerge, are vacant. The developers are betting that with the Cincinnati-area warehouse vacancy rate standing at 3.1 percent as of September, according to JLL’s data, tenants will be eager to move in. The site’s proximity to the airport and the area’s highway network could be draws for tenants, too.

“Cincinnati has historically had low vacancy rates,” said Molly North, chief executive at Al. Neyer. “Certainly, from a developer’s perspective, this calls for more supply. I think it’s also an indication that, as developers, we haven’t kept up with demand in the market.”

Before the project in Hebron, Al. Neyer had not developed a warehouse property in the Cincinnati area since 2007, according to Ms. North. As the economy softened, leasing that development was a challenge. The company focused on other real estate projects instead.

Now, the company wants back in the market. Even as they try to lease the Hebron project, Al. Neyer and Hillwood have bought another parcel close to the

region's airport and plan to build two more buildings with 1.7 million square feet between them. Construction on the first building is set to begin next April.

Part of the reason the companies think they can eventually fill around 2.5 million square feet of space is because of Amazon's plans for the Cincinnati airport, which it will use as an airfreight hub with as many as 2,000 employees.

"We already liked the market before that," said Kurt Nelson, senior vice president at Hillwood. "But I think it just adds another piece, another opportunity."

Amazon is having an outsize effect on warehouse developers. By the end of the year, Amazon will rent an estimated 114 million square feet of warehouse space, up from about nine million in 2009, according to a June note from Jonathan Petersen, an analyst at investment bank Jefferies who follows industrial property companies.

But Amazon faces some competition for warehouse space. Walmart, for example, has increased the number of large distribution centers that support its online sales. And e-commerce operations require three times the amount of warehouse space that brick-and-mortar stores need, analysts say, to guarantee that inventory is on hand and returns can be processed. That means companies with online shopping platforms are going to be on the hunt.

"The last thing that caused a big difference, and this is more macro, was just the growth in trade, the growth in port markets and the move toward distribution and warehousing along the coasts," Mr. Petersen said in an interview. "Then out of nowhere, you have this e-commerce trend. That continues to boost the sector and drive growth."

This year, developers are expected to build about 225 million new square feet of warehouse space, according to JLL, about the same as last year's tally and more than double the 10-year average of 120 million square feet.

One challenge for many builders is finding development sites in or close to dense, built-up cities, where land is often scarce. E-commerce companies need such parcels to guarantee they can quickly dispatch orders to homes and businesses.

Prologis, a San Francisco-based real estate investment trust that owns 380 million square feet of industrial property in the United States, is trying to solve the land riddle by constructing modern multistory warehouses — at least in some markets. These types of properties are not uncommon in cities like Hong Kong and Tokyo, but they are nonexistent here. A property Prologis is building in Seattle will be the first contemporary multistory warehouse in the United States, according to the company.

The building, called Prologis Georgetown Crossroads and located about four miles south of downtown Seattle, will span 590,000 square feet over three levels. When complete, it will have two floors designated for product fulfillment. A ramp will wind around one side of the building, allowing trucks to drive to the second floor, pick up or drop off goods and then leave in an efficient manner. The top level could host offices or even a light manufacturing operation.

Multistory warehouses are unproven in the United States, but potential tenants for the Seattle property have been receptive to the idea, said Larry Harmsen, chief operating officer for the Americas at Prologis. The company also plans to develop such a property in San Francisco. “They’re not just crazy experiments,” he said.

“We’re not going to do these everywhere. These really only work in high-density, highly land-constrained environments,” Mr. Harmsen said. “The land economics have to be high enough.”

The boom in warehouses could even spell the end for long-struggling retail properties. In Frackville, Pa., about 60 miles northeast of Harrisburg, the state capital, the real estate company NorthPoint Development believes industrial buildings are a better use than a moribund mall.

NorthPoint wants to demolish the mostly empty 800,000-square-foot Schuylkill Mall in Frackville, replacing the retail property with two new warehouses that will have more than 1.2 million square feet between them, according to Brian Hansbury, vice president at the Schuylkill Economic Development Corporation.

Schuylkill Mall opened in 1980 and once had four anchor retail tenants, including a now-closed Sears and a Hess’s. But the mall has been in decline for years,

hurt in part by the rise of online retailers, according to Mr. Hansbury. Later this year, NorthPoint will demolish the property, clearing the land for the warehouses it wants to build, he said.

Mr. Hansbury thinks the larger of the two buildings planned for the property could work as an e-commerce distribution center. It would be ironic, of course, if an e-commerce company, the type of which helped make the mall obsolete, ended up with an operation on the site.

“It really is kind of a full circle development that’s going on,” Mr. Hansbury said. “I can see why some people would be disappointed that they no longer have a mall, but I think what we’re left with might even be better.”

A version of this article appears in print on October 25, 2017, on Page B5 of the New York edition with the headline: E-Commerce Is Making Warehouses a Hot Property.

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State of New York

Andrew Cuomo
Governor

Development Profile for Warehouse/Distribution/Logistics Center Sites

August 2008

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BUILD NOW–NY
CURRENT PROGRAM / ROUND 4

Program Overview

To foster economic growth, New York has developed the Build Now–NY initiative that will strategically market an inventory of pre-approved, "shovel ready" sites to a wide range of fast growing, job-creating companies.

Empire State Development (ESD) will coordinate this effort and focus on selecting, developing, permitting, and marketing selected sites.

The State will continue to develop its inventory of sites that have undergone the intensive state and local government reviews necessary to accelerate future investment and development. The program has two elements. Periodically, rounds of Build Now-NY funding have been announced that aid applicants in "pre-permitting" their site. Shovel Ready certification is an ongoing component of the Build Now-NY program that gives official recognition to sites which have completed this advance work and are truly prepared to offer businesses the opportunity break ground on a new facility in a greatly expedited process.

The development profiles are designed to allow local governments to decide on the appropriate type of development for their community. Municipalities will be able to demonstrate to prospective businesses that their community supports and is prepared for new development, new jobs, and economic growth.

Eligible applicants for Build Now-NY/Shovel Ready Certification include municipalities, local economic development organizations, industrial development agencies, and public authorities. Private sector developers and landowners must partner with one of the above entities to apply on their behalf. Application instruction and forms can be found at: www.esd.ny.gov/BuildNow.

Development Profiles
Generic site development profiles have been prepared for three types of economic development projects:

- High Tech Manufacturing Sites
- Warehouse/Distribution/Logistics Center Sites
- Multi-Tenant Business and Technology Park

The profiles describe features typical for each of the business types. Intended to serve as "roadmaps," the profiles include essential information for each business sector, such as: generic Development Profiles, Project Requirements, Project Profile & Impacts, and a list of "musts" and "wants" that describe site characteristics either necessary or highly desirable for each project type. Prior to nominating sites, applicants should use these profiles to identify the development type most appropriate for their community.

Warehouse/Distribution/Logistics Center Sites
Introduction

In 1999, the State of New York, Empire State Development, and the Governor's Office of Regulatory Reform successfully implemented **Build Now-NY**, a program that provides the State's communities and economic developers with an important competitive edge in the highly competitive corporate site selection process. By offering companies shovel ready sites, communities and regions throughout New York are benefiting from economic growth, new development and new jobs.

Currently, three development types are being promoted and marketed through Build Now-NY: High Technology Manufacturing, Warehouse/Distribution/Logistics Centers, and Multi-Tenant Business and Technology Parks. All of these are eligible for participation in the Build Now-NY program.

This booklet is a guide for warehouse/distribution/logistics center site development. Included is generic information for warehouse/distribution/logistics center development that will be needed to complete State Environmental Quality Review (SEQR), possible zoning changes, and other necessary permitting and site approval requirements. It includes:

- **Generic Site Profile** – Defines and describes the purpose and function of warehouse/distribution/logistics center sites and identifies relevant infrastructure, traffic and construction schedule data. Communities, economic development organizations and local stakeholders may use this information to determine if this type of development is appropriate for their community. The data will also be useful while completing the SEQR process.

- **Must and Wants –** Lists criteria and features that are either essential or highly desirable for site development.

Warehouse/Distribution/Logistics Center Sites
Generic Site Profile

General Description

Warehouse/Distribution/Logistics centers are growing in importance in the manufacturing and wholesale trade/distribution process. As manufacturers become more focused on reducing costs, increasing customer satisfaction, and optimizing their supply chain to resources, suppliers and customers, they are paying much more attention to the number and location of their distribution facilities and the functions they perform.

In the U.S., manufacturer downsizing and outsourcing over the past decade have created major growth opportunities for distribution operations, logistics providers, and more recently, e-commerce fulfillment centers. Historically, typical distribution functions were shipping and receiving, storage, order picking, breakbulk, freight consolidation and containerization. Today, thanks to technology, many distribution operations are computerized, automated, and equipped with state-of-the-art material handling equipment and information systems. This enables them to deliver overnight to a widening geographic market. As a result, many distribution operations have added a number of value-added services, including total logistics management, inventory control and tracking, packaging, labeling and bar coding, procurement and vendor management, and customer service functions, such as returns, repair, rework and assortment promotional assembly.

Information systems and the Internet are improving the logistics of distribution centers, enabling companies to exchange information for products. This has also led to the growth of logistics operations and e-commerce fulfillment centers. According to the Council of Logistics Management (CLM), logistics involves the inbound, outbound, internal and external movement of goods, services and related information. Activities that are provided by logistics operations include customer service, transportation, purchasing, warehousing, materials handling, strategic planning, inventory control and forecasting.

Warehouse/Distribution/Logistics center facilities vary greatly, depending on their type of operations, their functions, the geographic region served and their space needs. Some buildings may be 1.0 million square feet or more.

E-commerce fulfillment centers perform distribution-related functions for goods purchased via the Internet by consumers and/or businesses. They assemble and repackage materials, consolidate orders and shipments, and physically deliver goods to customers. For manufacturers, e-commerce fulfillment centers enhance inventory control and just-in-time manufacturing and help control costs. For retailers, e-commerce fulfillment centers provide a cost-effective means for "unit of one" shipping to consumers who make purchases online. E-commerce fulfillment centers can be freestanding, single use buildings or small "warehouses" within larger distribution centers.

The typical warehouse facility is moving to 30-foot plus ceiling clearances and more truck doors to accommodate higher-stacked pallets and the rapid movement of goods. As the movement of freight within distribution centers accelerates, cross-docking is growing in importance. With cross-docking, goods come in one door and go out another with minimal delay - a package that might have spent five days in yesterday's distribution center is now processed through in 24 hours or less.

In general, the average distribution facility employs fewer than 100 workers. However, recent trends toward expanding operations to include value-added services are expected to increase the average employment in these type of operations.

To be considered in the Build Now-NY program, a site with a minimum of **50 contiguous developable acres outside the FEMA 100-year flood plain** are necessary to accommodate a distribution, logistics or e-commerce operation, but in metropolitan areas, the developable acreage may be less. If land coverage of 50 percent is assumed, 50 contiguous developable acres can support a building of up to 1.0 million square feet. Available land for expansion purposes should also be considered when identifying appropriate sites.

Market Analysis

Today, technology is the driving force behind growth, development, and increased productivity around the world and in the distribution and logistics industries. Technology has produced a wide range of innovations, including barcode scanning, automated storage and retrieval systems, state-of-the art material handling equipment, computerized freight tracking, voice recognition and advanced communications systems, and the automated purchasing, production and sales systems that support just-in-time inventories and distribution.

The location goal of most warehouse/distribution/logistics centers is to select a site that offers the lowest possible transportation costs with the easiest access to the greatest number of customers. The location process typically used in the selection of an appropriate site takes into consideration the products for which a distribution facility is desired; the market area or areas that are to be served and the degree of market penetration necessary. Just-in-time has increased significantly the importance of being within a day's travel time (500 mile maximum) of suppliers and customers.

The location criteria that warehouse/distribution/logistics centers factor into their site selection decision include, but are not limited to, market trends, proximity to existing and new customers, access to suppliers and vendors, transportation services and cost, telecom infrastructure, labor availability and cost, building and site acquisition and cost, quality educational institutions and training facilities, and regulatory factors, such as inventory valuation.

According to the State of New York Department of Labor, 358,400 were employed in wholesale trade and 60,300 in trucking and warehousing in December 2005. The combined wholesale trade/trucking and warehousing employment of 418,700 was 4.8 percent of the total non-agricultural employment of 8,680,400 in the state. (Please note: Trucking and warehousing includes all sectors in SIC 42 - local and non-local trucking with and without storage, public warehousing and storage, and freight trucking terminals.)

The state has a business environment that is very conducive for supporting new manufacturing projects and expansions. Evidence of this is its consecutive second place rankings in *Site Selection* magazine's Governor's Cup competition for ***New and Expanded Facilities in the State in 2002 and 2003***. According to the March 2004 issue of *Site Selection*, New York experienced a gain of 552 new and expanded corporate facilities.

Minimum Site Acreage

The site must have a minimum of 50 contiguous developable acres, but in metropolitan areas, the acreage may be less.

Appropriate Topography and Configuration

The topography of the site should generally have little elevation change and the developable acres need to be outside the 100-year FEMA flood plain designation. The preferred site configuration is square or slightly rectangular with few outparcel obtrusions. Sites should be at road grade elevation and not have major elevation changes as uneven site topography greatly increases site preparation costs.

Utility and Telecommunications Infrastructure **(minimum criteria for a typical site with 50 developable acres)**

Electricity

- Kilowatt (kW) Demand: 1,350 kW
- Monthly Kilowatt Hour (kWh) Usage: 1,000,000 kWh
- Should be on a 15 kVA line, or preferably larger
- Should be within 3 miles of a substation with minimum available capacity of 25mVa
- Potential for dual feed from a substation is preferred.

Natural Gas

- Demand: 8,300 CF/Hr.
- Usage: 175,000 Therms/year
- Minimum available capacity: 4-6 inch high pressure line within 3 miles

Water

- Minimum: 2,500–4,000 gallons per minute potable existing available capacity, for up to 4 hours with 8 hour recovery for fire flow
- Water distribution line serving the site should be a minimum of 10 inches in diameter.
- Municipal system preferred

Sewer/Wastewater

- Minimum available capacity: 20,000 gallons per day (gpd) at site boundary
- Municipal system preferred

Telecommunications

- T-1 level of service capacity a minimum

Transportation Requirements

Interstate, highway, and truck access are critical for the delivery of raw materials, supplies and other input materials and the distribution of products. Distribution-related operations seek locations with access via truck routes on an interstate, limited access or other 4-lane highway, and they should be within 15 miles of an interchange of these types of roadways. Access routes must be designated for travel by 53' trucks. Travel to the highway should avoid congested commercial, retail, or residential routes. The site should have dual road access and separate auto and truck access points or entrances, and at least one traffic light should control ingress and egress to the site. Major highway visibility can be a plus.

Rail service is important for some operations. The growth of intermodal service, *i.e.*, containers and truck trailers carried on trains over long distances, has meant additional options for cost conscious shippers as fewer distribution centers are needed to cover much larger areas. Therefore, sites served by rail, or in close proximity to rail that have the capability of access by a spur, have a competitive advantage.

Air transportation is more important for some users than for others. It is especially critical for operations handling products with a limited shelf life that are needed by just-in-time manufacturers, such as pharmaceutical companies. Air service is also used by operations that handle products of limited weight and whose shipping costs are relatively low. Surface access within 60 minutes to a commercial airport with jet service is preferred.

For projects involving water-based shipping, there should be direct access to a navigable waterway or express access to a coastal port within 240 miles.

Proximity of Support Facilities

Warehouse/Distribution/Logistics centers prefer locations with proximity to trucking companies, truck mechanics, and other service providers; technology, computer, and telecom specialists; temporary staffing services; office and industrial supply warehouses; and courier services.

Site Development Barriers and Issues

Access to environmental information about the site is critical. Environmentally sensitive sites or those with ecological, archeological, historical or cultural resources that significantly limit use or require continued monitoring should be avoided. Plant operating parameters should not be adversely impacted by undesirable emissions from offsite activities; worker health and welfare must be protected.

Site Ownership vs. Lease

Most warehouse/distribution/logistics centers own the property on which they are located. When it comes to site acquisition and ownership, companies prefer properties with one landowner, or if not appropriate, a limited number of landowners without known property transfer objections or legal impediments that adversely affect transfer.

Surrounding Land Use Issues

Due to high volume truck traffic and potential continuous, round-the-clock operations, surrounding land uses must allow for the 24-hour operation of facilities without noise level restrictions on heavy truck engines.

Other Criteria Critical to Site Selection

Please see the project list of Musts and Wants.

Project Profile & Impacts

Type of Facility: Regional Distribution Center

Capital Investment

- Building and improvements: $16.0 million
- Machinery and equipment (includes fixtures and racks): $1.8 million
- Inventory: $13.0 million

Building Size

- 250,000 square feet, expandable to 500,000 square feet

Site Requirement

- 50 contiguous developable acres

Utility and Telecom Infrastructure Requirements

Electricity

- Kilowatt (kW) Demand: 1,350 kW
- Monthly Kilowatt Hour (kWh) Usage: 1,000,000 kWh

Natural Gas

- Demand: 8,300 CF/Hr.
- Usage: 175,000 Therms/year

Water

- Minimum: 2,500–4,000 gallons per minute potable existing available capacity, for up to 4 hours with 8 hour recovery for fire flow

Sewer/Wastewater

- Minimum available capacity: 20,000 gallons per day (gpd) at site boundary

Telecommunications

- T-1 level of service capacity a minimum

Site Accessibility

Vehicular Access (Truck and automobile)

- Truck and automobile access is critical for a warehouse/distribution/logistics center.
- Must be within 15 miles via a truck route of an interchange of an Interstate, limited access, or other 4 lane highway
- Site must have unimpeded left hand turn access for trucks
- Site access should be at a signaled intersection of two roads to provide dual road access to separate truck and auto traffic.

Rail Access

- Optional but could make site more desirable

Air Access

- Surface access within 60 minutes to a commercial airport with jet service is preferable.

Construction and Facility Peak Traffic Estimates

- Construction Peak Traffic: 100 vehicle trips/day
- Facility Peak Traffic: 350 vehicle trips/day

Warehouse/Distribution/Logistics Center Sites
Project Musts and Wants

Site Musts

- **Must** be a minimum of 50* developable contiguous acres configured to support the site development plan.
- **Must** be within 15 miles via a truck route of an interchange to an interstate, limited access or other 4-lane highway.
- **Must** be zoned for warehousing and distribution activities, or a letter of commitment to rezone the property must be included.
- The 50 developable acres **must** be located in an area outside the FEMA 100-year flood plain.
- The 50 developable acres **must** be free of wetlands, protected species, and environmental issues, or have mitigations plans in place that can be enacted in 90 days.
- **Must** have electric and municipal water and wastewater services properly sized and with adequate system capacities to meet the needs as shown in the Project Profile, or must evidence the ability to upgrade services to meet the Project Profile requirements.

**In metropolitan areas, sites with less acreage will be considered if all other criteria are satisfied.*

Site Wants

Weight	Factor
10	Ease of transportation access
9	Favorable site characteristics (*i.e.*, configuration, topography, surrounding uses, ownership)
8	Additional adjoining, contiguous, available acres
7	Quality and available work force
5	Competitive recurring costs (*i.e.*, utility costs and property taxes)
5	Natural gas service to site
4	Competitive investment costs (*i.e.*, land, cost of construction)
4	Telecom accessibility (*i.e.*, T-1 line level of service)
4	50 acre site should be subdividable into 15+ acre sites

APPENDIX I-1a

Full Environmental Assessment Form
Part 1 - Project and Setting

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 project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Northeast Interstate Logistics Center		
Project Location (describe, and attach a general location map): NY 312 and Pugsley Road, Southeast, NY		
Brief Description of Proposed Action (include purpose or need): Construction of 4 warehouse buildings, which are proposed to be high-cube and automated. Warehouse #1 is 261,320 s.f.; Warehouse #2 is 173,775 s.f.; Warehouse #3 is 323,076 s.f.; and Warehouse #4 is 366,404 s.f.; for a total building square footage of 1,124,575 s.f. A total of 5 lots are proposed of which 3 are to contain the 4 proposed warehouses, one is to include two wells to serve the project, and one to remain undeveloped. Lot acreages are shown on the attached: (Continued on attached)		
Name of Applicant/Sponsor: Putnam Seabury Partners, LP	Telephone: (646) 216-8195 E-Mail: hschulweis@nianticpartners.com	
Address: 287 King Street		
City/PO: Chappaqua	State: NY	Zip Code: 10514
Project Contact (if not same as sponsor; give name and title/role): Joseph Sarchino, RLA	Telephone: (914) 273-5225 E-Mail: jsarchino@jmcpllc.com	
Address: c/o JMC, 120 Bedford Road		
City/PO: Armonk	State: NY	Zip Code: 10504
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

Lot #	Approximate Acreage
1	77.16
2	91.19
3	71.74
4	25.27
5	57.28

Total Acres ±322.64

Lot #1 contains Warehouse #1 and Warehouse #2.

Lot #2 contains Warehouse #3, and Lot # 3 contains Warehouse #4.

Lot 4 is to remain undeveloped, and Lot 5 contains two wells to serve the proposed project.

The entire site is zoned OP-3 "Office Park OP-3 District" with the exception of three parcels zoned RC "Rural Commercial District". A proposed Zoning Map change would rezone the one RC parcel on the west side of Pugsley Road to OP-3.

A zoning text amendment is proposed to permit a new "logistics center" conditional use within the OP-3 district, which district already includes a warehouse use.

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 Council, Town Board, or Village Board of Trustees ☑Yes ☐No	Zoning Text and Map Amendment	11/06/2017
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Subdivision Approval; Site Plan Approval; Wetland Permit	11/06/2017
c. City Council, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No ARB; Town Highway	Recommendation; Street Opening Permit	TBD TBD
e. County agencies ☑Yes ☐No Putnam County Health Dept; County Planning Dept.	Septic & Well Permits; NYS Municipal Law Referral	TBD TBD
f. Regional agencies ☑Yes ☐No NYCDEP	Stormwater Review	TBD
g. State agencies ☑Yes ☐No NYSDOT, NYSDEC	Highway Work Permit; Access Highway Designation; SPDES General Permit GP-0-15-002; Wetland Permit	TBD TBD
h. Federal agencies ☑Yes ☐No USACOE	Fresh Water Wetland Permit	TBD

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):

NYC Watershed Boundary

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?
RC and OP-3; Ridgeline Overlay District

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? Portion of site within the RC district to be rezoned to OP-3. Logistics Center to be added as a conditional use within the OP-3 district.

C.4. Existing community services.

a. In what school district is the project site located? Brewster Central School District

b. What police or other public protection forces serve the project site?
Putnam County Sheriff's Dept; NYS Police

c. Which fire protection and emergency medical services serve the project site?
Brewster Fire Dept; Carmel Ambulance Corp.

d. What parks serve the project site?
Volunteer Park Ball Fields; Southeast Town Park

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

b. a. Total acreage of the site of the proposed action? ±240.1 acres
b. Total acreage to be physically disturbed? ±145.3 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? ±322.6 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)
Commercial
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 proposed action be constructed in multiple phases? ☐ Yes ☐ No TBD
i. If No, anticipated period of construction: _____ 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: Phasing dependent upon market conditions.

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 4

ii. Dimensions (in feet) of largest proposed structure: 45.5 height; 327 width; and 1318 length

iii. Approximate extent of building space to be heated or cooled: 1,124,575 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? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☑ No

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): NYSDEC Wetland LC-18 and LC-28; Local wetland No. 3; Stream from No. 3; Unknown wetland south of NY 312.

_____

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:
Utility structure and fill for roadway construction. ±12.0 acres of disturbance.

iii. Will proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☑ No
If Yes, describe:

iv. Will 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: Wetland Mitigation Plan.

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: 10,000 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: Existing wells

vi. If water supply will be from wells (public or private), maximum pumping capacity: 90 gallons/minute.

d. Will the proposed action generate liquid wastes? ☑ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 10,000 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): Sanitary wastewater

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 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):

Subsurface disposal

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: N/A

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 57.0 acres (impervious surface)

_____ Square feet or 322.64 acres (parcel size)

ii. Describe types of new point sources. Stormwater will be discharged from stormwater detention systems via level spreaders or end sections into wetland buffer areas. Swale along Pugsley Road will collect runoff and discharge across road via headwalls.

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)?

See attached Exhibit 'A'

- If to surface waters, identify receiving water bodies or wetlands: See attached Exhibit 'A'
- Will stormwater runoff flow to adjacent properties? ☑Yes ☐No

iv. Does 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)

EXHIBIT 'A'

e.)

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)?*

Stormwater runoff from developed portions of the site will be conveyed into stormwater management areas consisting of a forebay, infiltration basin and detention basin or subsurface infiltration chamber system and subsurface detention chamber system. Stormwater runoff from undeveloped portions will continue to sheet flow off the site. Runoff will be discharged into wetland buffer areas and conveyed to 6 wetland areas, three perennial streams and two intermittent streams.

- *If to surface waters, identify receiving water bodies or wetlands:*

3 Perennial Streams
- "Beaver Brook" NYSDEC Index No. H-31-P44-23-P-641
- "unnamed stream" NYSDEC Index No. H-31-P44-23-P64-3
- "unnamed stream" NYSDEC Index No. H-31-P44-23-P64-4

2 Intermittent Streams

6 Wetlands
- Wetland No. 1 (Locally regulated)
- Wetland No. 2 (NYSDEC Wetland L-18)
- Wetland No. 3 (Locally regulated)
- Wetland No. 4 (NYSDEC Wetland LC-18)
- Wetland No. 5 (NYSDEC Wetland LC-18)
- Wetland No. 6 (NYSDEC Wetland LC-28)

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 semi-trailer truck trips/day: ±720

iii. Parking spaces: Existing 0 Proposed 446 plus 310 landbanked Net increase/decrease +446

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:

See Traffic Study

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: TBD

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

Local utility

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: 7:00 AM - 8:00 PM
- Saturday: 9:00 AM - 5:00 PM
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: 24/7
- Saturday: 24/7
- Sunday: 24/7
- Holidays: 24/7

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:

Typical temporary construction noise during permitted construction hours.

ii. Will 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:

Lighting will be standard outdoor security and parking lot lighting high efficiency LED down lighting.

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 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: TBD tons per _____ (unit of time)
- Operation : ±100 tons per month (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: Recycling

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: Private carter

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 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): Vacant rural land

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	0.2	57.2	+57.0
• Forested	79.4	47.2	-32.2
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	179.7	99.8	-79.9
• Agricultural (includes active orchards, field, greenhouse etc.)	0.0	0.0	0.0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.6	0.6	0.0
• Wetlands (freshwater or tidal)	62.7	62.7	±0.0
• Non-vegetated (bare rock, earth or fill)	0.0	0.0	0.0
• Other Describe: Landscaping	0.0	55.1	+55.1

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:

Tilly Foster Farm

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): _____

☐ 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? 2 - 6.5+ 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:

PnD Paxton loam	40 %
Woodbridge loam	25 %
Sun loam	7 %

d. What is the average depth to the water table on the project site? Average: 0 - 6.5+ feet

e. Drainage status of project site soils:
☑ Well Drained: 45 % of site
☑ Moderately Well Drained: 30 % of site
☑ Poorly Drained 25 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 56 % of site
☑ 10-15%: 24 % of site
☑ 15% or greater: 20 % 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 864-194 Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters, NYS Wetlands, Local Wetlands Approximate Size LC-18 ±212.4 acres
- Wetland No. (if regulated by DEC) LC-18 and LC-28 LC-28 ±85.9 acres

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:
See Biological Assessment Report

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

See Biological Assessment Report

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

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: PUTN001

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:
ii. Basis for designation:
iii. Designating agency and date:

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

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

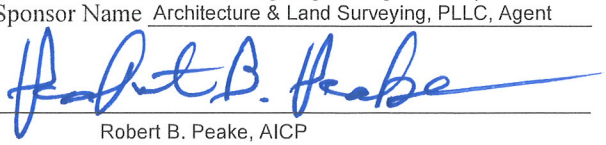
Attach any additional information which may be needed to clarify your project.

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 JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC, Agent Date 11/06/2017

Signature  Title Project Manager

Robert B. Peake, AICP

PRINT FORM

APPENDIX I-1b

ZARIN & STEINMETZ

David J. Cooper
Jody T. Cross •
Katelyn E. Ciolino ▲
Michael J. Cunningham ▲
Marsha Rubin Goldstein
Helen Collier Mauch ▲
Zachary R. Mintz •
Daniel M. Richmond
Kate Roberts
Brad K. Schwartz
Lisa F. Smith •
David S. Steinmetz ■
Edward P. Teyber
Michael D. Zarin

■ Also admitted in D.C.
• Also admitted in CT
▲ Also admitted in NJ

November 6, 2017

Via Hand Delivery

Supervisor Hay, and Members of the
Town Board of the Town of Southeast
Town Hall
Court Room
1360 Route 22
Brewster, NY 10509

Re: Northeast Interstate Logistics Center
The Campus at Fields Corner Site
Tax Map Section 45, Block 1 (the "Property")

Dear Supervisor Hay and Members of the Town Board:

This firm represents Putnam Seabury Partners, L.P. (the "Applicant"), the owner of the above Property, in connection with its proposal to modify the Zoning Local Law of the Town of Southeast ("Zoning Law") in order to permit the development of a logistics center at the Property. The Applicant is also represented by JMC as the Site Planner, Civil & Traffic Engineer and Landscape Architect; Lawless & Mangione Architects & Engineers, LLP; Evans Environmental Consulting, Inc.; and Badey & Watson, Surveying and Engineering, P.C. (the "Development Team"). We are submitting the enclosed petition for a Zoning Text Amendment ("Petition"), in accordance with Zoning Law Section 138-93, to commence the review of the Applicant's proposal. We respectfully request that you place this Petition on your Board's November 16th Regular Agenda to commence the review process pursuant to Section 138-91 of the Zoning Law.

The Applicant is proposing to amend the Zoning Law, to (1) make "logistics center" a defined term under Section 138-4(b); (2) allow logistics centers as a conditional use in the Town; (3) make a logistics center a permitted conditional use in the OP-3 District; and (4) include the parcel referred to on the Putnam County Tax Map as Section 45, Block 1, Lot 4 in the OP-3 District on the Zoning Map ("Text Amendments").

While the current Zoning Law permits traditional distribution uses such as "warehouse" and "light manufacturing" for storage, assemblage and manufacturing of nonhazardous goods and materials, today, these traditional distribution operations have become antiquated and somewhat obsolete. Distribution due to the internet and computerization of our society, has evolved. Shopping, as noted in two recent NY Times Articles, has shifted from conventional stores to online marketplaces. (See *Where Internet Orders Mean Real Jobs, and New Life for Communities*, Natalie Kitroeff, Oct. 22, 2017, copy annexed to Zoning Petition as Exhibit "A" and *As Amazon Moves In, Demand for Warehouse Space Climbs*, Micah Maidenberg, October 24, 2017, copy annexed to Zoning Petition as Exhibit "B".) And sellers in this online marketplace need physical warehouses that function beyond the traditional warehouse definition in most municipalities' zoning laws.

While it is the buildings themselves that makes possible the rapid delivery that consumers now expect from online retailers, those buildings must be permitted to have the appropriate uses. (See Exhibit B to the Zoning Petition.) As the Governor recognized, in issuing a New York State Development Profile for Warehouse/Distribution/Logistics Center Sites, with the evolution in industry comes a need for a number of additional valuable services with associated job creation, to support modern distribution demands and the increased productivity that has resulted. (See Development Profile for Warehouse/Distribution/Logistics Center Sites, August 2008, copy annexed to the Zoning Petition as Exhibit "E"). The proposed logistics center definition/use would support this need. In addition to the traditional warehouse and light manufacturing functions that are already permitted under the Zoning Law, such as receipt, storage and distribution of non-hazardous goods and materials, a logistics center, as proposed by the Applicant, would also provide for handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities. The Applicant relied in significant part on the State's Development Profile to develop its proposed definition.

As set forth in detail in the Petition, the Applicant submits that the proposed Text Amendments would facilitate several important planning and economic goals set forth in the Town's Comprehensive Plan. This includes seeking "a diversified base of business and industry, [] strengthen[ing] the Town's tax base, and [] provid[ing] employment opportunities for area residents while preserving the Town's rural character and protecting the Town's portion of the regional drinking water supply." See Comprehensive Plan, at 1-4. All of these goals would be accomplished by the Text Amendments which foster a progressive industry, while ensuring that the Town has continued control over the details of the development plans for proposed logistics centers. In addition, the Text Amendments would allow for a Project that would be good for the Town and County's economy, without significantly increasing the demand on existing community resources, such as water supply, traffic, or schools. The Project would also foster significant job creation in the Town. As noted in the above cited NY Times Article, the online marketplace in need of distribution centers "have fueled a boom for workers without college degrees and breathed new life into pockets of the country that had fallen economically behind," these uses "have produced hundreds of thousands of jobs since the recovery began in 2010, adding workers at four times the rate of overall job growth."

The Applicant's Petition requests that the Text Amendments create a logistics center as a Conditional Use in the OP-3 District. Based on conversations with the Town's staff, the Applicant felt that making logistics centers a permitted Conditional Use would allow the Town to maintain control over potential development of logistics centers. Not only would a plan for a logistics center have to meet general conditions and standards required for all conditional uses, as set forth in Section 138-53 of the Zoning Law, but the Planning Board would also maintain authority to set forth plan-specific conditions. This would allow the Planning Board to ensure that any logistics center proposed in the town would address site-specific impacts.

The Text Amendments would facilitate the Applicant's proposal to build four (4) buildings on the Property for use as a logistics center, designed to accommodate 1,124,575 square feet (the "Project"). The Applicant has submitted a Site Plan and Subdivision Applications for the Project with the Town's Planning Board simultaneously with this Zoning Petition to the Town Board. Approval of the Site Plan Application will be subject to your Board's adoption of the Text Amendments.

The Property is a particularly appropriate location for a logistics center. There is relatively little available warehouse space of this kind for rent in many metropolitan areas where the land is at a premium, e-commerce companies in particular need these parcels to guarantee they can quickly dispatch orders to homes and businesses. (See Exhibit B to the Zoning Petition.) The Property is easily accessible, close to I-684 and I-87, and is situated along Interstate I-84 directly off Exit 19, which is a full four (4) way interchange ("Route 312 Interchange"). Further, its central Putnam County location is convenient to the area employment centers of Westchester, Duchess and Orange Counties in New York, and Fairfield and Litchfield Counties in Connecticut. Nearby centers of commerce include White Plains, Poughkeepsie and Newburgh, New York, as well as Greenwich, Stamford and Waterbury Connecticut. The Property's location off of the Route 312 Interchange and Pugsley Road will allow for ample transportation access without disturbing local traffic within the Town. Furthermore, the Applicant has proposed widening Route 312, and adding a traffic light to ensure the Property does not disturb or impact local traffic.

As set forth in the Petition, the Applicant submits that this redevelopment would be accomplished in an appropriate manner, consistent with the surrounding neighborhood character. The Applicant and its Development Team looks forward to commencing this review, and reviewing the annexed materials with your Board this month. In the meantime, please feel free to contact us with any questions.

Respectfully submitted,

ZARIN & STEINMETZ

By: _____
Daniel M. Richmond
Kate Roberts

Encls.

cc (via electronic mail w/ attachments):
Putnam Seabury Partners, L.P.
JMC
Victoria Desidero, Planning Board Administrative Assistant
Ashley Ley, AKRF

TOWN BOARD: TOWN OF SOUTHEAST
COUNTY OF PUTNAM: STATE OF NEW YORK

In the Matter of the Application of

PUTNAM SEABURY PARTNERS, L.P.,

PETITION FOR ZONING AMENDMENTS

For Amendments to the Zoning Local Law of the Town of Southeast to: (i) Establish a "Logistics Center" As a Conditional Use; (ii) Amend the OP-3 Zone (OP-3) District Text to Allow the Logistics Center Use in the OP-3 District, and (iii) to Amend the Town of Southeast Zoning Map to Re-Zone the Parcels Listed as Section 45, Block 1, Lot 4 on the Town's Tax Map from the Rural Commercial Zone (RC) District to the OP-3 District.

Petitioner Putnam Seabury Partners, L.P. ("Petitioner" or "Seabury Partners"), by its attorneys Zarin & Steinmetz, respectfully petitions the Town Board ("Town Board") of the Town of Southeast, New York ("Town") as follows:

INTRODUCTION

1) This is a Petition pursuant to Section 138-91 of the Zoning Local Law of the Town of Southeast ("Zoning Law"), which empowers the Town Board to amend any article, section, paragraph or provision of the Zoning Law and the Zoning Map, to amend: (i) Section 138-4(b) of the Zoning Law to add a logistics center as a defined term; (ii) Article X of the Zoning Law to incorporate a section allowing logistics centers as a conditional use in the Town; (iii) Attachment 5 of the Zoning Law ("Commercial Zoning Schedule"), which establishes the Permitted Uses in the OP-3 Zoning District, to include a logistics center as a permitted conditional use in the OP-3 Zone; and (iv) the Zoning Map, to include the real property which is listed as Section 45, Block 1, Lot 4 on the Town's Tax Map (the "Parcel") in the OP-3 District.

2) This Petition intends to promote the vibrant and sustainable economic development of the Town by allowing a use that is growing in importance and demand. While

the current Zoning Law permits traditional distribution uses such as "warehouse" and "light manufacturing" for storage, assemblage and manufacturing of nonhazardous goods and materials, today, these traditional distribution operations have become antiquated and somewhat obsolete. Distribution now, due in significant part to the internet and computerization of our society, has evolved.

3) This shift has recently been recognized, for example, in articles in The New York Times, discussing the shift from conventional stores to online marketplaces. See *Where Internet Orders Mean Real Jobs, and New Life for Communities*, Natalie Kitroeff, Oct. 22, 2017, and *As Amazon Moves In, Demand for Warehouse Space Climbs*, Micah Maidenberg, October 24, 2017. (Copies annexed hereto as Exhibit "A" and Exhibit "B", respectively.)

4) A logistics center is the modernized distribution use. It incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional valuable services to support the distribution demands and increased productivity that has resulted. For example, the additional uses under a logistics center use now include handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

5) Petitioner's logistics center concept was developed in significant part through New York State's Development Profile for Warehouse/Distribution/Logistics Center Sites (the "NYS Logistics Center Profile"), which recognizes the growing need and demand for modern distribution centers and sets forth guidelines for their development. (Annexed hereto as Exhibit "C".)

6) A logistics center is a highly desirable use for the Town. Not only would adoption of the use foster a progressive, and high-demand industry, but the use would promote

significant job creation in the Town and County. The need for distribution centers has "fueled a boom for workers without college degrees and breathed new life into pockets of the country that had fallen economically behind." These types of operations "have produced hundreds of thousands of jobs since the recovery began in 2010, adding workers at four times the rate of overall job growth." See Exhibit A.

7) Seabury Partners is a limited partnership organized under the laws of the State of Delaware, with an address at 287 King Street, Chappaqua, NY 10514.

8) Petitioner owns the Campus at Fields Corner Site, situated to the West of Interstate I-84 at Exit 19 off of Pugsley Road, and listed on the Putnam County Tax Map as 155 separate tax lots in Section 45, Block 1 (the "Site"). (Annexed as Exhibit "D" is a list of the parcels that comprise the Site.)

9) This particular Site is ideal for a logistics center. It is easily accessible, and close to I-684 and I-87. Further, its central Putnam County location is convenient to the area employment centers and centers of commerce in New York, Connecticut, and throughout the northeast. (Annexed as Exhibit "E" is a map showing the distance/drive times to the major metropolitan markets.) The Site's location directly off Exit 19 of Interstate I-84, which is a full four (4) way interchange ("Route 312 Interchange") and Pugsley Lane will also allow for ample transportation access without disturbing local traffic in the Town.

10) The majority of the Site is zoned in the OP-3 District, with the exception of the Parcel and two other parcels which are on the opposite side of Pugsley Road (Section 45, Block 1, Lots 12 and 13), which are currently zoned in the RC District.

11) The Site, which measures approximately 252 acres, is presently undeveloped.

12) Seabury Partners received approval to subdivide a portion of the Site for a 143-unit residential project. Pursuant to a Court-ordered Stipulation of Settlement, the Town recognizes that Seabury Partners has vested rights until 2020 to implement that residential project.

The Proposed Development

13) Petitioner proposes to build four (4) buildings on the Site for use as a 1,124,575 SF logistics center (the "Project"). The Project would be called the Northeast Interstate Logistics Center.

14) While the Zoning Law currently permits warehouse and light manufacturing uses in the Town for functions such as storage, assemblage and manufacturing of nonhazardous goods and materials, these allowable uses do not clearly allow logistics centers.

15) As the result of technology, computerization, and changing market realities, traditional warehouse uses have evolved into complex distribution operations, which have added a number of additional valuable, labor demanding services. Such services include consolidation, repackaging, labeling, assembly, aggregation, transloading, and refrigeration of the non-hazardous goods and materials that are shipped to, stored at and distributed from a logistics center.

16) Logistics centers are growing in importance and demand in the manufacturing, wholesale, and retail distribution process, optimizing the supply chain to resources, suppliers and customers.

17) There is relatively little available logistic/distribution center space of this kind for rent in many metropolitan areas where the land is at a premium. E-commerce

companies, in particular need these parcels to guarantee they can quickly dispatch orders to homes and businesses. See Exhibit B.

18) This Site would be a particularly appropriate location for a logistics center. It is easily accessible, close to I-684 and I-87, and is situated along the Route 312 Interchange. Further, its central Putnam County location is convenient to the area employment centers of Westchester, Duchess and Orange Counties in New York and Fairfield and Litchfield Counties in Connecticut. Nearby centers of commerce include White Plains, Poughkeepsie and Newburgh, New York as well as Greenwich, Stamford and Waterbury Connecticut. (See Exhibit E).

19) The Site's location off the Route 312 Interchange and Pugsley Road will allow for ample transportation access without disturbing local traffic within the Town.

20) The Project would not disturb the entire 252 acres of the Site. The buildings would be built only on portions of the Site in Exhibit "F" labeled Lot 1, 2 and 3.

21) The proposed buildings would range in size from 173,775 sf and 366,404 sf and are flexible in design so as be easily modified to meet the needs of future tenants. The buildings' main purpose will be for receipt, storage, distribution, and associated distribution services (as described in Paragraph 4) of non-hazardous goods and products. The buildings may also contain accessory office and limited retail space.

22) In order to take accomplish this exciting, economically vibrant project in the Town, there are amendments to the Zoning Law that need to be adopted.

THE PROPOSED AMENDMENTS

A. The Town's Zoning Law Presently Does Not Clearly Allow The Full Range of Uses Comprising Modern Logistics Centers

23) Petitioner seeks two (2) text amendments to allow logistics centers as a conditional use in the Town under the Zoning Law. These proposed text amendments would amend Section 138-4(b), which is the definitions section of the Zoning Law, and Article X of the Zoning Law, which sets forth the Conditional Uses.

24) A logistics center is proposed to be defined as "[a] building or structure used for the receipt, storage, distribution, handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or similar activities for non-hazardous goods, products, freight, cargo and/or materials. A Logistics Center may include associated office space and/or facilities for loading, unloading, transfer, repair and/or maintenance. A Logistics Center may also include accessory retail space, provided that such space shall comprise no more than two percent (2%) of the total floor area of such use." (Proposed definition is annexed hereto as Exhibit "G".)

25) In developing a definition for logistics centers, the Petitioner was guided by the NYS Logistics Center Profile. See Exhibit C. The NYS Logistics Center Profile recognizes that in the United States, manufacturers have been downsizing and outsourcing over the past decade, creating major growth opportunities for distribution operations, such as the proposed Project, rather than traditional warehouses that were used solely for storage. Again, logistics centers are a growing use, important in both manufacturing and distribution processes.

26) The Petitioner proposes that the Board permit logistics centers as a conditional use under Article X of the Zoning Law. (Proposed Conditional Use Provision is

annexed hereto as Exhibit "H".) Allowing logistic centers as a conditional use guarantees that the Town Board and Planning Board have the ability to appropriately condition logistics center uses.

27) As a conditional use, any application for a logistics center must meet the general conditions and standards for conditional uses, as set forth in Section 138-53 of the Zoning Law. Section 138-53 also gives the Planning Board authority to prescribe specific conditions prerequisite to approval.

28) Petitioners' proposed Conditional Use Provision for logistic centers, in particular, also establishes certain general conditions that must be met, as well as authority for the Planning Board to prescribe additional special conditions on a site-specific basis to address site-specific impacts.

29) The general conditions incorporated into the Conditional Use Provision include a minimum parcel size of 25 acres, as well as that a building used for the purpose of a logistics center must be at least 75 feet away from any residential use. These conditions will help ensure that the community character is preserved.

30) Under the Conditional Use Provision, the Planning Board has broad authority to impose conditions related to landscaping, to ensure there are appropriate buffers between a proposed logistics center and adjoining parcels, as well as the ability to permit modifications of the Zoning Law.

31) Accordingly, Petitioner respectfully submits that logistics center be incorporated as a defined term in the Zoning Law, as set forth in Exhibit G, and as a conditional use under the Zoning Law as set forth in Exhibit H.

B. The Town's Zoning Law Does Not Permit A Logistics Center As A Conditional Use in the OP-3 District

32) Petitioner seeks to avail itself of the proposed logistics center use, which is currently not permitted in any district.

33) Petitioner seeks a text amendment to the Commercial Zoning Schedule to add logistics center as a conditional use in the OP-3 District.

34) A logistics center use in the OP-3 District is consistent with other provisions in the Zoning Law. Under the Zoning Law, the OP-3 District is considered a "Class C" District, which is defined as "[l]ands intended primarily for office, warehouse, and light industrial uses." Zoning Law § 96-4(B).

35) A logistics center would incorporate many of the traditional warehouse and light industrial uses, but would modernize these uses as set forth *supra*.

36) A logistics center use in the OP-3 District, specifically this Site, is also consistent with the Town's 2014 Comprehensive Plan.

37) One of the primary visions of the Town's Comprehensive Plan is to "seek[] a diversified base of business and industry, to strengthen the Town's tax base, and to provide employment opportunities for area residents while preserving the Town's rural character and protecting the Town's portion of the regional drinking water supply." See Comprehensive Plan, at 1-4. The proposed Project would meet all of these goals.

a. The Project would diversify and modernize industry in the Town. It would be the first logistics center of its type in Putnam County, and one of the only of its size within a 70-mile radius of New York City.

b. The Project would contribute significantly to the Town's tax base, and create jobs. It is projected that the Project will generate a significant tax increase in

comparison to the $141,616 that is generated in property taxes by the Property currently. The Project could also result in up to 666 jobs.

c. Unlike the previously approved residential development on the Site, logistics centers require relatively little water supply for their operations. Therefore, the Project would not put a strain on the regional drinking supply or sewage systems.

d. The Project will be well-screened from surrounding properties by existing trees, as it is located in the middle of a 252-acre Site, so as not to disturb the rural character of the Town.

38) Accordingly, the Petitioner respectfully requests that logistics centers be added to the list of conditional uses in the OP-3 District in the Commercial Zoning Schedule.

C. The Town's Zoning Map Should Include the Parcel in the OP-3 Zoning District

39) Petitioner seeks a Zoning Map amendment in order to implement and facilitate the Project.

40) The entire Site is zoned in the OP-3 District, with the exception of the Parcel and two (2) other parcels on the opposite side of Pugsly which are zoned in the RC District. The proposed Zoning Map change, which would rezone the Parcel into the OP-3 District, would be fully consistent with the pattern of zoning in the area, as the Parcel proposed to be changed is almost completely surrounded by OP-3 zoned parcels.

41) The amendment to the Zoning Map would also be consistent with the Comprehensive Plan, which indicates that the original purpose of creating the RC District to replace certain Office Park Zoning Districts was to "permit commercial development that has a smaller impact on environmental systems," while also "encourage[ing] uses that would maintain and enhance the parcels' scenic qualities and rural character." See Comprehensive Plan, at 5-21

and 7-3. The Project is located on a small part of a large Site, thereby maintaining open space while simultaneously providing adequate screening to neighboring properties. The use fosters development, while also ensuring the site retain open space consistent with a rural community.

42) Accordingly, the Petitioner respectfully submits that the Zoning Map be amended to include the Parcel in the OP-3 District.

WHEREFORE, Petitioner respectfully requests that the Town Board: (a) amend Section 138-4(b) of the Zoning Law to include a definition for logistics center; (b) add a section to Article X of the Zoning Law to allow logistics centers as a conditional use in the Town; (c) amend the Commercial Zoning Schedule to allow warehouses as a permitted principal use in the OP-3 District; (d) amend the Town's official Zoning Map to include the Parcel in the OP-3 District and; (e) refer this proposal to the Southeast Planning Board for a report.

Dated: May 8, 2018
White Plains, New York

ZARIN & STEINMETZ

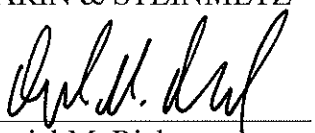
By: 

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EXHIBIT “A”

The New York Times | https://nyti.ms/2h1pAE2

Where Internet Orders Mean Real Jobs, and New Life for Communities

Vast warehouses are being built, fueling a demand for lower-skilled workers and reviving areas that once relied on manufacturing.

By NATALIE KITROEFF OCT. 22, 2017

BETHLEHEM, Pa. — Ellen Gaugler remembers driving her father to the Bethlehem Steel mill, where he spent his working years hauling beams off the assembly line and onto rail cars.

When the Pennsylvania plant shut down about two decades ago, Ms. Gaugler thought it was the last time she or anyone in Bethlehem would come to its gates to find a job that paid a decent wage for a physical day of work.

But she saw an ad in the paper last year for a position at a local warehouse that changed her mind. She'd never heard of Zulily, the online retailer doing the hiring, but she knew the address: It was on the old mill site, steps from where her father worked.

"When I came for the interviews I looked up and said, 'Oh, my God, I feel like I am at home,'" Ms. Gaugler said. She got the job.

As shopping has shifted from conventional stores to online marketplaces, many retail workers have been left in the cold, but Ms. Gaugler is coming out ahead. Sellers like Zulily, Amazon and Walmart are competing to get goods to the buyer's doorstep as quickly as possible, giving rise to a constellation of vast warehouses that have

fueled a boom for workers without college degrees and breathed new life into pockets of the country that had fallen economically behind.

Warehouses have produced hundreds of thousands of jobs since the recovery began in 2010, adding workers at four times the rate of overall job growth. A significant chunk of that growth has occurred outside large metropolitan areas, in counties that had relatively little of the picking-and-packing work until recently.

“We are at the very beginning of a rather large transformation, and the humble warehouse is the leading edge of this,” said Michael Mandel, chief economic strategist at the Progressive Policy Institute in Washington. “These fulfillment center jobs are not being created in the tech hubs that were growing before. We’ve broadened the winner’s circle.”

Americans have grown more comfortable ordering everything on the internet, including bulky wares like canoes and refrigerators. Warehouses, as a result, have become gargantuan, doubling in size since 2010, according to CBRE, a real estate services firm.

And while robots have started to intervene in the process, it still takes a lot of bodies to move hundreds of thousands of boxes in and out of these buildings every day. Warehouses serving the largest e-commerce sites typically employ upwards of 2,000 people.

The hubs of this network are far-flung. In Bullitt County, Ky., south of Louisville, warehouse employment surged to 6,000 in 2017 from 1,200 in 2010, according to the Labor Department. In Kenosha, Wis., once a manufacturing hub whose auto plants turned out Nash Ramblers and Plymouth Horizons, warehouse jobs grew to 6,200 from 250 in the same period.

Those places have the advantage of being surrounded by highways and rail lines that lead to some of the nation’s largest cities. They also have an abundance of cheap land and labor, two assets that have become increasingly vital to companies selling online.

The same calculus has made a warehouse mecca out of the land that houses the carcass of Bethlehem Steel, giving natives like Ms. Gaugler a sense that their hometown may be thriving.

Ms. Gaugler, 54, earns $13.50 an hour putting together shipments at the Zulily warehouse, where employees tend to refer to their end customer as “Mom.” She works 10-hour shifts from Wednesday through Saturday, and puts in for overtime whenever she can.

“I like to get those orders out to Mom,” she said. The work is physically demanding, she said, but it’s straightforward. She gets a list of items to pull from shelves every morning — toys, glassware, baby clothes — and works her way to the bottom as quickly as possible. She’s gotten two raises, of 25 cents each, over the last year.

There are people in town who are nostalgic for the time when the mill filled the sky with black smoke and the furnaces churned all day. Not Ms. Gaugler. “These are secure jobs,” she said. “With the steel, you didn’t know if you would have a job the next day.”

Her father may have had a better deal at the mill — he got 13 weeks of vacation and “didn’t have to worry about bills every so often,” Ms. Gaugler said. But she only has an associate degree, and said this job pays better than most of her alternatives. It also comes with health insurance, paid time off and a 401(k) retirement plan.

Before the warehouses came to the area, it had little to offer in the way of decent-paying, low-skilled work. But Amazon saw something promising in the city’s bones.

It is flanked by Interstate 78, providing a gateway to the nation’s biggest metropolitan area — New York is 80 miles away — and putting seven other states within a day’s drive.

“It’s location, being able to serve customers on the Eastern Seaboard and the Mid-Atlantic,” said Ashley Robinson, an Amazon spokeswoman. “It’s the

infrastructure available to move those trucks out of the Lehigh Valley. It's the work force."

The company opened two modest facilities outside Allentown, Bethlehem's neighbor to the west, a place made famous by a Billy Joel song about the death of factory jobs. Other retailers rushed in, drawn partly by incentives, including abatements and credits, allowing companies that developed on the steel mill land to save hundreds of thousands on their tax bills over 10 years.

As a result, the stretch of eastern and central Pennsylvania that includes the Lehigh Valley has grown faster than any other market in the country over the last five years, according to CBRE. While retailers tend to bulk up their facilities with temporary helpers around the holidays — Amazon has announced plans to hire 120,000 seasonal employees by the end of the year — they have also taken on an army of full-time workers. Warehouse employment in a two-county area that includes Bethlehem jumped to 15,200 in 2017, from 5,200 in 2010.

"I don't know of another place in the world that has gone from a submarket to a global hub in eight years," said David Egan, the global head of industrial and logistics research at CBRE. "It's undeniable that it is a key, crucial market for global trade."

Some of the biggest players in the warehouse game have staked a claim to Lehigh Valley land. Walmart has two huge facilities in Bethlehem. FedEx is building one of its biggest ground locations in the nation in the area, and the United Parcel Service opened a new hub near the New Jersey border last year to handle the torrential volume of traffic coming through eastern Pennsylvania.

The boom in warehouses has created a seemingly endless appetite for stockers, pickers and packers, turning the town into a magnet for people in need of a second chance. Omar Pellot is one of them.

Mr. Pellot left the Bronx, where he was born, because it seemed as if the city had run out of jobs for people with his particular résumé.

He says he started dealing drugs at the age of 8, on the guidance of his father, a "drug dealer turned drug addict." He was in and out of jail as a teenager and spent a year on Rikers Island as a 17-year-old, he said. After that stint, he had a hard time finding work in New York, so he relocated to Florida and eventually moved to the Lehigh Valley, where, he had heard, the job market was "awesome."

He got a job at Amazon almost immediately. When the company asked about his background, he said, "I explained it to them — you know, I was young and naïve and stupid."

In a year as a picker — retrieving items from vast shelving units — Mr. Pellot said he walked about 10 miles on his night shift, and got two raises that pushed his hourly pay to $14.30. He passed a test to become a forklift driver and has his sights set on becoming a supervisor.

Now 38, he spent his childhood "thinking that street life would make me a man," he said. "But this is what makes me a man, working hard."

The shifts in warehouses may be long, and the work tedious and exhausting, but they are a better bet for people like Mr. Pellot than anything else in eastern Pennsylvania. The average warehouse worker in the area earns $14.46 an hour, compared with $12.67 for those in retail sales and $10.85 for waiters.

"The conventional wisdom is that retail jobs are better and that losing them is bad for an economy," said Don Cunningham, president of the Lehigh Valley Economic Development Corporation. "The reality is that fulfillment jobs are paying a higher wage and offering more long-term opportunity."

Lingering over Bethlehem is the unnerving question of when, exactly, the robots will ruin the party. In a Walmart fulfillment center that takes up as much land as a big-league ballpark, machines have begun to take on some of the tasks involved in getting people their goods within a day of a click.

As boxes careen down a conveyor belt on their way out of the building, tiny devices known as "shoes" follow alongside and jerk forward to push the packages into chutes that funnel them into the truck they are destined for.

Box-shaped machines glide along shelves to snatch crates and deposit them onto a conveyor. There are no accidents on these routes — right before two boxes are about to crash into each other, a combination of sensors and software stops one and lets the other pass.

But for now, humans are still needed, in ever-increasing numbers.

“There’s still a lot of stuff that gets done not necessarily by hand, but aided by the use of labor,” said David Tarnosky, the general manager of the warehouse. Walmart started the year with around 1,100 full-time employees there, and doubled that number by October.

“We won’t stop hiring through peak of this year,” Mr. Tarnosky said. By this time next year, he will have hired hundreds more.

Robert Gebeloff contributed reporting from New York.

A version of this article appears in print on October 23, 2017, on Page A1 of the New York edition with the headline: Idle Steel Mills Rumble to Life As Online Sellers’ Warehouses.

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EXHIBIT “B”

The New York Times | https://nyti.ms/2h5ztAA

BUSINESS DAY

As Amazon Moves In, Demand for Warehouse Space Climbs

Square Feet

By MICAH MAIDENBERG OCT. 24, 2017

For the modest warehouse, this is a golden age.

Boxy, unadorned and often overlooked, these properties are suddenly in hot demand in many parts of the country, thanks in part to a rise in e-commerce as consumer shopping habits move online. Retailers like Amazon and Walmart are snapping up space once reserved for makers of office furniture and home flooring.

For years now, consumers have been purchasing more products online. In the second quarter, e-commerce sales topped more than $111 billion on a seasonally adjusted basis, or 8.9 percent of all retail sales, according to the Census Bureau. Industry forecasters expect e-commerce sales to continue growing.

Warehouses often reveal little about what goes on within their walls, but the buildings make possible the rapid delivery that consumers now expect from online retailers. They serve as storage and distribution points for products ranging from auto parts to pharmaceuticals. And warehouse jobs have grown rapidly since 2010, forming a critical part of the employment base in communities across the country.

As developers try to catch up, they are considering some unusual solutions, like constructing multistory warehouses and demolishing struggling malls to make way for sprawling industrial properties.

“This is the best I’ve seen it in my 35-year career,” said Craig S. Meyer, president of the logistics and industrial services group for the Americas at the commercial real estate company JLL.

There is relatively little in the way of available warehouse space for rent in many metropolitan regions, especially along the coasts, where land is at a premium. Nationwide, the vacancy rate stood at 5.2 percent at the end of September, lower than the average rate of 8.1 percent over the previous decade, according to JLL. Asking rental rates hit a high of $5.40 per square foot this fall.

Just outside of Cincinnati, two real estate development companies, Al. Neyer and the Hillwood Development Company, recently put the finishing touches on a development called the Hebron Logistics Center. Located on a 49-acre property a few miles from the Cincinnati/Northern Kentucky International Airport in Hebron, Ky., the project includes a pair of huge buildings, the larger of which covers more than 589,000 square feet — the equivalent of about 10 football fields — and has 36-foot-high ceilings. The smaller structure measures around 209,500 square feet.

Both buildings, built on speculation that tenants will emerge, are vacant. The developers are betting that with the Cincinnati-area warehouse vacancy rate standing at 3.1 percent as of September, according to JLL’s data, tenants will be eager to move in. The site’s proximity to the airport and the area’s highway network could be draws for tenants, too.

“Cincinnati has historically had low vacancy rates,” said Molly North, chief executive at Al. Neyer. “Certainly, from a developer’s perspective, this calls for more supply. I think it’s also an indication that, as developers, we haven’t kept up with demand in the market.”

Before the project in Hebron, Al. Neyer had not developed a warehouse property in the Cincinnati area since 2007, according to Ms. North. As the economy softened, leasing that development was a challenge. The company focused on other real estate projects instead.

Now, the company wants back in the market. Even as they try to lease the Hebron project, Al. Neyer and Hillwood have bought another parcel close to the

region's airport and plan to build two more buildings with 1.7 million square feet between them. Construction on the first building is set to begin next April.

Part of the reason the companies think they can eventually fill around 2.5 million square feet of space is because of Amazon's plans for the Cincinnati airport, which it will use as an airfreight hub with as many as 2,000 employees.

"We already liked the market before that," said Kurt Nelson, senior vice president at Hillwood. "But I think it just adds another piece, another opportunity."

Amazon is having an outsize effect on warehouse developers. By the end of the year, Amazon will rent an estimated 114 million square feet of warehouse space, up from about nine million in 2009, according to a June note from Jonathan Petersen, an analyst at investment bank Jefferies who follows industrial property companies.

But Amazon faces some competition for warehouse space. Walmart, for example, has increased the number of large distribution centers that support its online sales. And e-commerce operations require three times the amount of warehouse space that brick-and-mortar stores need, analysts say, to guarantee that inventory is on hand and returns can be processed. That means companies with online shopping platforms are going to be on the hunt.

"The last thing that caused a big difference, and this is more macro, was just the growth in trade, the growth in port markets and the move toward distribution and warehousing along the coasts," Mr. Petersen said in an interview. "Then out of nowhere, you have this e-commerce trend. That continues to boost the sector and drive growth."

This year, developers are expected to build about 225 million new square feet of warehouse space, according to JLL, about the same as last year's tally and more than double the 10-year average of 120 million square feet.

One challenge for many builders is finding development sites in or close to dense, built-up cities, where land is often scarce. E-commerce companies need such parcels to guarantee they can quickly dispatch orders to homes and businesses.

Prologis, a San Francisco-based real estate investment trust that owns 380 million square feet of industrial property in the United States, is trying to solve the land riddle by constructing modern multistory warehouses — at least in some markets. These types of properties are not uncommon in cities like Hong Kong and Tokyo, but they are nonexistent here. A property Prologis is building in Seattle will be the first contemporary multistory warehouse in the United States, according to the company.

The building, called Prologis Georgetown Crossroads and located about four miles south of downtown Seattle, will span 590,000 square feet over three levels. When complete, it will have two floors designated for product fulfillment. A ramp will wind around one side of the building, allowing trucks to drive to the second floor, pick up or drop off goods and then leave in an efficient manner. The top level could host offices or even a light manufacturing operation.

Multistory warehouses are unproven in the United States, but potential tenants for the Seattle property have been receptive to the idea, said Larry Harmsen, chief operating officer for the Americas at Prologis. The company also plans to develop such a property in San Francisco. “They’re not just crazy experiments,” he said.

“We’re not going to do these everywhere. These really only work in high-density, highly land-constrained environments,” Mr. Harmsen said. “The land economics have to be high enough.”

The boom in warehouses could even spell the end for long-struggling retail properties. In Frackville, Pa., about 60 miles northeast of Harrisburg, the state capital, the real estate company NorthPoint Development believes industrial buildings are a better use than a moribund mall.

NorthPoint wants to demolish the mostly empty 800,000-square-foot Schuylkill Mall in Frackville, replacing the retail property with two new warehouses that will have more than 1.2 million square feet between them, according to Brian Hansbury, vice president at the Schuylkill Economic Development Corporation.

Schuylkill Mall opened in 1980 and once had four anchor retail tenants, including a now-closed Sears and a Hess’s. But the mall has been in decline for years,

hurt in part by the rise of online retailers, according to Mr. Hansbury. Later this year, NorthPoint will demolish the property, clearing the land for the warehouses it wants to build, he said.

Mr. Hansbury thinks the larger of the two buildings planned for the property could work as an e-commerce distribution center. It would be ironic, of course, if an e-commerce company, the type of which helped make the mall obsolete, ended up with an operation on the site.

“It really is kind of a full circle development that’s going on,” Mr. Hansbury said. “I can see why some people would be disappointed that they no longer have a mall, but I think what we’re left with might even be better.”

A version of this article appears in print on October 25, 2017, on Page B5 of the New York edition with the headline: E-Commerce Is Making Warehouses a Hot Property.

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EXHIBIT “C”

State of New York

Andrew Cuomo
Governor

Development Profile for Warehouse/Distribution/Logistics Center Sites

August 2008

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BUILD NOW–NY
CURRENT PROGRAM / ROUND 4

Program Overview

To foster economic growth, New York has developed the Build Now–NY initiative that will strategically market an inventory of pre-approved, "shovel ready" sites to a wide range of fast growing, job-creating companies.

Empire State Development (ESD) will coordinate this effort and focus on selecting, developing, permitting, and marketing selected sites.

The State will continue to develop its inventory of sites that have undergone the intensive state and local government reviews necessary to accelerate future investment and development. The program has two elements. Periodically, rounds of Build Now-NY funding have been announced that aid applicants in "pre-permitting" their site. Shovel Ready certification is an ongoing component of the Build Now-NY program that gives official recognition to sites which have completed this advance work and are truly prepared to offer businesses the opportunity break ground on a new facility in a greatly expedited process.

The development profiles are designed to allow local governments to decide on the appropriate type of development for their community. Municipalities will be able to demonstrate to prospective businesses that their community supports and is prepared for new development, new jobs, and economic growth.

Eligible applicants for Build Now-NY/Shovel Ready Certification include municipalities, local economic development organizations, industrial development agencies, and public authorities. Private sector developers and landowners must partner with one of the above entities to apply on their behalf. Application instruction and forms can be found at: www.esd.ny.gov/BuildNow.

Development Profiles
Generic site development profiles have been prepared for three types of economic development projects:

- High Tech Manufacturing Sites
- Warehouse/Distribution/Logistics Center Sites
- Multi-Tenant Business and Technology Park

The profiles describe features typical for each of the business types. Intended to serve as "roadmaps," the profiles include essential information for each business sector, such as: generic Development Profiles, Project Requirements, Project Profile & Impacts, and a list of "musts" and "wants" that describe site characteristics either necessary or highly desirable for each project type. Prior to nominating sites, applicants should use these profiles to identify the development type most appropriate for their community.

Warehouse/Distribution/Logistics Center Sites
Introduction

In 1999, the State of New York, Empire State Development, and the Governor's Office of Regulatory Reform successfully implemented **Build Now-NY**, a program that provides the State's communities and economic developers with an important competitive edge in the highly competitive corporate site selection process. By offering companies shovel ready sites, communities and regions throughout New York are benefiting from economic growth, new development and new jobs.

Currently, three development types are being promoted and marketed through Build Now-NY: High Technology Manufacturing, Warehouse/Distribution/Logistics Centers, and Multi-Tenant Business and Technology Parks. All of these are eligible for participation in the Build Now-NY program.

This booklet is a guide for warehouse/distribution/logistics center site development. Included is generic information for warehouse/distribution/logistics center development that will be needed to complete State Environmental Quality Review (SEQR), possible zoning changes, and other necessary permitting and site approval requirements. It includes:

- **Generic Site Profile** – Defines and describes the purpose and function of warehouse/distribution/logistics center sites and identifies relevant infrastructure, traffic and construction schedule data. Communities, economic development organizations and local stakeholders may use this information to determine if this type of development is appropriate for their community. The data will also be useful while completing the SEQR process.

- **Must and Wants –** Lists criteria and features that are either essential or highly desirable for site development.

Warehouse/Distribution/Logistics Center Sites
Generic Site Profile

General Description

Warehouse/Distribution/Logistics centers are growing in importance in the manufacturing and wholesale trade/distribution process. As manufacturers become more focused on reducing costs, increasing customer satisfaction, and optimizing their supply chain to resources, suppliers and customers, they are paying much more attention to the number and location of their distribution facilities and the functions they perform.

In the U.S., manufacturer downsizing and outsourcing over the past decade have created major growth opportunities for distribution operations, logistics providers, and more recently, e-commerce fulfillment centers. Historically, typical distribution functions were shipping and receiving, storage, order picking, breakbulk, freight consolidation and containerization. Today, thanks to technology, many distribution operations are computerized, automated, and equipped with state-of-the-art material handling equipment and information systems. This enables them to deliver overnight to a widening geographic market. As a result, many distribution operations have added a number of value-added services, including total logistics management, inventory control and tracking, packaging, labeling and bar coding, procurement and vendor management, and customer service functions, such as returns, repair, rework and assortment promotional assembly.

Information systems and the Internet are improving the logistics of distribution centers, enabling companies to exchange information for products. This has also led to the growth of logistics operations and e-commerce fulfillment centers. According to the Council of Logistics Management (CLM), logistics involves the inbound, outbound, internal and external movement of goods, services and related information. Activities that are provided by logistics operations include customer service, transportation, purchasing, warehousing, materials handling, strategic planning, inventory control and forecasting.

Warehouse/Distribution/Logistics center facilities vary greatly, depending on their type of operations, their functions, the geographic region served and their space needs. Some buildings may be 1.0 million square feet or more.

E-commerce fulfillment centers perform distribution-related functions for goods purchased via the Internet by consumers and/or businesses. They assemble and repackage materials, consolidate orders and shipments, and physically deliver goods to customers. For manufacturers, e-commerce fulfillment centers enhance inventory control and just-in-time manufacturing and help control costs. For retailers, e-commerce fulfillment centers provide a cost-effective means for "unit of one" shipping to consumers who make purchases online. E-commerce fulfillment centers can be freestanding, single use buildings or small "warehouses" within larger distribution centers.

The typical warehouse facility is moving to 30-foot plus ceiling clearances and more truck doors to accommodate higher-stacked pallets and the rapid movement of goods. As the movement of freight within distribution centers accelerates, cross-docking is growing in importance. With cross-docking, goods come in one door and go out another with minimal delay - a package that might have spent five days in yesterday's distribution center is now processed through in 24 hours or less.

In general, the average distribution facility employs fewer than 100 workers. However, recent trends toward expanding operations to include value-added services are expected to increase the average employment in these type of operations.

To be considered in the Build Now-NY program, a site with a minimum of **50 contiguous developable acres outside the FEMA 100-year flood plain** are necessary to accommodate a distribution, logistics or e-commerce operation, but in metropolitan areas, the developable acreage may be less. If land coverage of 50 percent is assumed, 50 contiguous developable acres can support a building of up to 1.0 million square feet. Available land for expansion purposes should also be considered when identifying appropriate sites.

Market Analysis

Today, technology is the driving force behind growth, development, and increased productivity around the world and in the distribution and logistics industries. Technology has produced a wide range of innovations, including barcode scanning, automated storage and retrieval systems, state-of-the art material handling equipment, computerized freight tracking, voice recognition and advanced communications systems, and the automated purchasing, production and sales systems that support just-in-time inventories and distribution.

The location goal of most warehouse/distribution/logistics centers is to select a site that offers the lowest possible transportation costs with the easiest access to the greatest number of customers. The location process typically used in the selection of an appropriate site takes into consideration the products for which a distribution facility is desired; the market area or areas that are to be served and the degree of market penetration necessary. Just-in-time has increased significantly the importance of being within a day's travel time (500 mile maximum) of suppliers and customers.

The location criteria that warehouse/distribution/logistics centers factor into their site selection decision include, but are not limited to, market trends, proximity to existing and new customers, access to suppliers and vendors, transportation services and cost, telecom infrastructure, labor availability and cost, building and site acquisition and cost, quality educational institutions and training facilities, and regulatory factors, such as inventory valuation.

According to the State of New York Department of Labor, 358,400 were employed in wholesale trade and 60,300 in trucking and warehousing in December 2005. The combined wholesale trade/trucking and warehousing employment of 418,700 was 4.8 percent of the total non-agricultural employment of 8,680,400 in the state. (Please note: Trucking and warehousing includes all sectors in SIC 42 - local and non-local trucking with and without storage, public warehousing and storage, and freight trucking terminals.)

The state has a business environment that is very conducive for supporting new manufacturing projects and expansions. Evidence of this is its consecutive second place rankings in *Site Selection* magazine's Governor's Cup competition for ***New and Expanded Facilities in the State in 2002 and 2003***. According to the March 2004 issue of *Site Selection*, New York experienced a gain of 552 new and expanded corporate facilities.

Minimum Site Acreage

The site must have a minimum of 50 contiguous developable acres, but in metropolitan areas, the acreage may be less.

Appropriate Topography and Configuration

The topography of the site should generally have little elevation change and the developable acres need to be outside the 100-year FEMA flood plain designation. The preferred site configuration is square or slightly rectangular with few outparcel obtrusions. Sites should be at road grade elevation and not have major elevation changes as uneven site topography greatly increases site preparation costs.

Utility and Telecommunications Infrastructure **(minimum criteria for a typical site with 50 developable acres)**

Electricity

- Kilowatt (kW) Demand: 1,350 kW
- Monthly Kilowatt Hour (kWh) Usage: 1,000,000 kWh
- Should be on a 15 kVA line, or preferably larger
- Should be within 3 miles of a substation with minimum available capacity of 25mVa
- Potential for dual feed from a substation is preferred.

Natural Gas

- Demand: 8,300 CF/Hr.
- Usage: 175,000 Therms/year
- Minimum available capacity: 4-6 inch high pressure line within 3 miles

Water

- Minimum: 2,500–4,000 gallons per minute potable existing available capacity, for up to 4 hours with 8 hour recovery for fire flow
- Water distribution line serving the site should be a minimum of 10 inches in diameter.
- Municipal system preferred

Sewer/Wastewater

- Minimum available capacity: 20,000 gallons per day (gpd) at site boundary
- Municipal system preferred

Telecommunications

- T-1 level of service capacity a minimum

Transportation Requirements

Interstate, highway, and truck access are critical for the delivery of raw materials, supplies and other input materials and the distribution of products. Distribution-related operations seek locations with access via truck routes on an interstate, limited access or other 4-lane highway, and they should be within 15 miles of an interchange of these types of roadways. Access routes must be designated for travel by 53' trucks. Travel to the highway should avoid congested commercial, retail, or residential routes. The site should have dual road access and separate auto and truck access points or entrances, and at least one traffic light should control ingress and egress to the site. Major highway visibility can be a plus.

Rail service is important for some operations. The growth of intermodal service, *i.e.*, containers and truck trailers carried on trains over long distances, has meant additional options for cost conscious shippers as fewer distribution centers are needed to cover much larger areas. Therefore, sites served by rail, or in close proximity to rail that have the capability of access by a spur, have a competitive advantage.

Air transportation is more important for some users than for others. It is especially critical for operations handling products with a limited shelf life that are needed by just-in-time manufacturers, such as pharmaceutical companies. Air service is also used by operations that handle products of limited weight and whose shipping costs are relatively low. Surface access within 60 minutes to a commercial airport with jet service is preferred.

For projects involving water-based shipping, there should be direct access to a navigable waterway or express access to a coastal port within 240 miles.

Proximity of Support Facilities

Warehouse/Distribution/Logistics centers prefer locations with proximity to trucking companies, truck mechanics, and other service providers; technology, computer, and telecom specialists; temporary staffing services; office and industrial supply warehouses; and courier services.

Site Development Barriers and Issues

Access to environmental information about the site is critical. Environmentally sensitive sites or those with ecological, archeological, historical or cultural resources that significantly limit use or require continued monitoring should be avoided. Plant operating parameters should not be adversely impacted by undesirable emissions from offsite activities; worker health and welfare must be protected.

Site Ownership vs. Lease

Most warehouse/distribution/logistics centers own the property on which they are located. When it comes to site acquisition and ownership, companies prefer properties with one landowner, or if not appropriate, a limited number of landowners without known property transfer objections or legal impediments that adversely affect transfer.

Surrounding Land Use Issues

Due to high volume truck traffic and potential continuous, round-the-clock operations, surrounding land uses must allow for the 24-hour operation of facilities without noise level restrictions on heavy truck engines.

Other Criteria Critical to Site Selection

Please see the project list of Musts and Wants.

Project Profile & Impacts

Type of Facility: Regional Distribution Center

Capital Investment

- Building and improvements: $16.0 million
- Machinery and equipment (includes fixtures and racks): $1.8 million
- Inventory: $13.0 million

Building Size

- 250,000 square feet, expandable to 500,000 square feet

Site Requirement

- 50 contiguous developable acres

Utility and Telecom Infrastructure Requirements

Electricity

- Kilowatt (kW) Demand: 1,350 kW
- Monthly Kilowatt Hour (kWh) Usage: 1,000,000 kWh

Natural Gas

- Demand: 8,300 CF/Hr.
- Usage: 175,000 Therms/year

Water

- Minimum: 2,500–4,000 gallons per minute potable existing available capacity, for up to 4 hours with 8 hour recovery for fire flow

Sewer/Wastewater

- Minimum available capacity: 20,000 gallons per day (gpd) at site boundary

Telecommunications

- T-1 level of service capacity a minimum

Site Accessibility

Vehicular Access (Truck and automobile)

- Truck and automobile access is critical for a warehouse/distribution/logistics center.
- Must be within 15 miles via a truck route of an interchange of an Interstate, limited access, or other 4 lane highway
- Site must have unimpeded left hand turn access for trucks
- Site access should be at a signaled intersection of two roads to provide dual road access to separate truck and auto traffic.

Rail Access

- Optional but could make site more desirable

Air Access

- Surface access within 60 minutes to a commercial airport with jet service is preferable.

Construction and Facility Peak Traffic Estimates

- Construction Peak Traffic: 100 vehicle trips/day
- Facility Peak Traffic: 350 vehicle trips/day

Warehouse/Distribution/Logistics Center Sites
Project Musts and Wants

Site Musts

- **Must** be a minimum of 50* developable contiguous acres configured to support the site development plan.
- **Must** be within 15 miles via a truck route of an interchange to an interstate, limited access or other 4-lane highway.
- **Must** be zoned for warehousing and distribution activities, or a letter of commitment to rezone the property must be included.
- The 50 developable acres **must** be located in an area outside the FEMA 100-year flood plain.
- The 50 developable acres **must** be free of wetlands, protected species, and environmental issues, or have mitigations plans in place that can be enacted in 90 days.
- **Must** have electric and municipal water and wastewater services properly sized and with adequate system capacities to meet the needs as shown in the Project Profile, or must evidence the ability to upgrade services to meet the Project Profile requirements.

**In metropolitan areas, sites with less acreage will be considered if all other criteria are satisfied.*

Site Wants

Weight	Factor
10	Ease of transportation access
9	Favorable site characteristics (*i.e.*, configuration, topography, surrounding uses, ownership)
8	Additional adjoining, contiguous, available acres
7	Quality and available work force
5	Competitive recurring costs (*i.e.*, utility costs and property taxes)
5	Natural gas service to site
4	Competitive investment costs (*i.e.*, land, cost of construction)
4	Telecom accessibility (*i.e.*, T-1 line level of service)
4	50 acre site should be subdividable into 15+ acre sites

EXHIBIT “D”

#	Tax ID #	#	Tax ID #	#	Tax ID #
1	45.-1-4	53	45.-3-46	105	45.-3-98
2	45.-1-5.2	54	45.-3-47	106	45.-3-99
3	45.-1-5.3	55	45.-3-48	107	45.-3-100
4	45.-1-8.1	56	45.-3-49	108	45.-3-101
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50	45.-3-43	102	45.-3-95	154	45.-3-147
51	45.-3-44	103	45.-3-96	155	45.-3-148
52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:

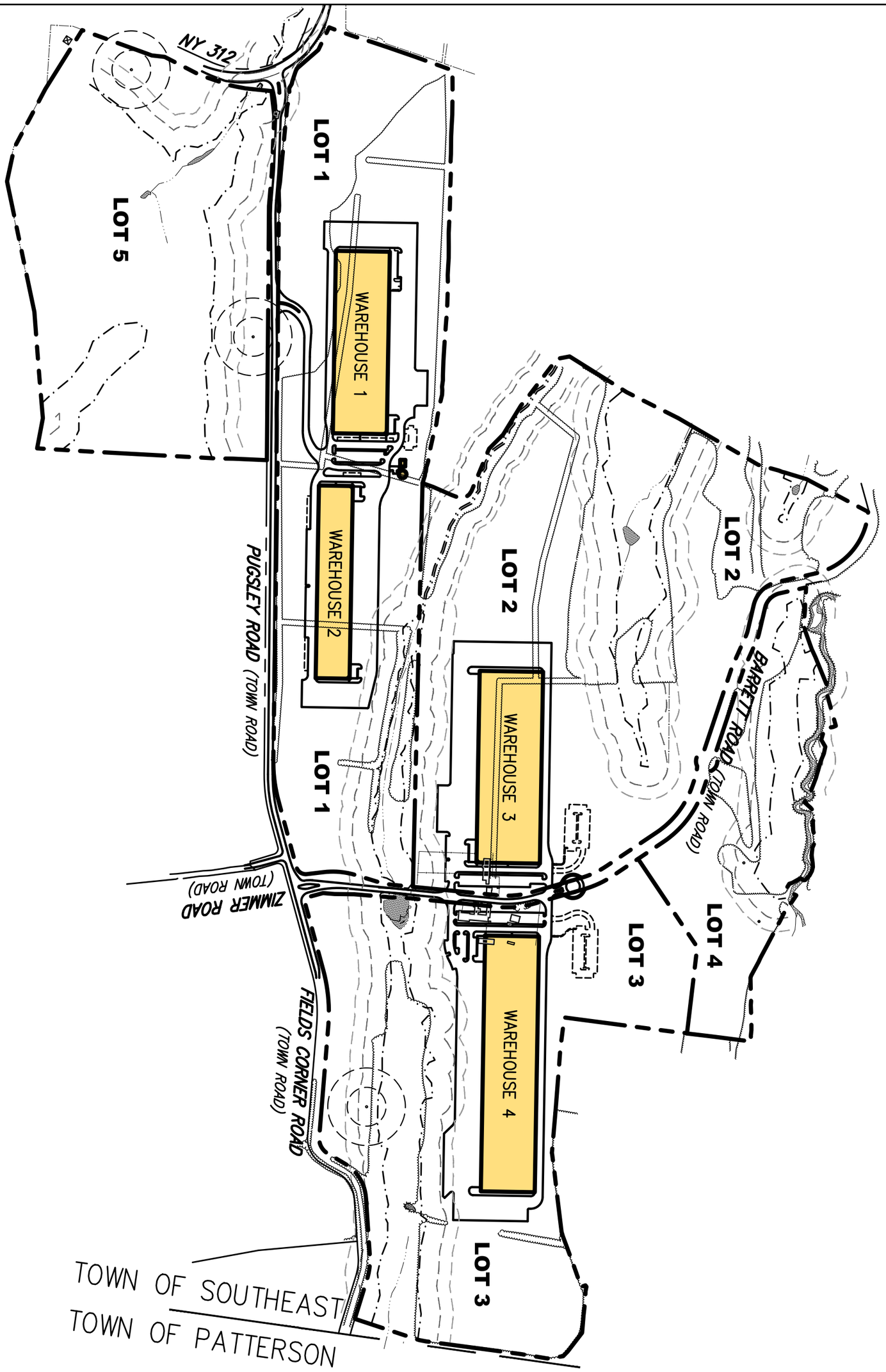
(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

EXHIBIT “E”

Distance/Drive to Major Metropolitan Markets

CBRE

EXHIBIT “F”



NORTHEAST INTERSTATE LOGISTICS CENTER

NY 312 & PUGSLEY ROAD — TOWN OF SOUTHEAST, NEW YORK

PROPOSED LOT MAP

DATE: 11/06/2017 — JMC PROJECT: 14012

FIGURE: T-1 — SCALE: 1" = 500'

120 BEDFORD RD
ARMONK
NY 10504

(914) 273-5225
fax 273-2102

JMCPLLC.COM

JMC

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14012-COVER-SHEET.dwg; PROP-TAX-LOT.tab; COVER.scr

EXHIBIT “G”

Logistics Center

A building or structure used for the receipt, storage, distribution, handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or similar activities for non-hazardous goods, products, freight, cargo and/or materials. A Logistics Center may include associated office space and/or facilities for loading, unloading, transfer, repair and/or maintenance. A Logistics Center may also include accessory retail space, provided that such space shall comprise no more than two percent (2%) of the total floor area of such use.

EXHIBIT “H”

Section 138-__ Logistics Center

Commercial buildings to be used for the purpose of a logistics center are subject to the following supplementary requirements:

A. Any parcel used for a Logistics Center shall consist of not less than 25 acres.

B. Design Guidelines: The Planning Board, when considering a conditional use permit for a Logistics Center, shall consider the application's conformance to these design guidelines in considering approval or denial of the application

[1] Building Design and Location.

(a) All buildings shall be of masonry, pigmented pre-cast concrete panels with cast-reveals, or metal construction on that portion of the building which faces on the street.

(b) No commercial building to be used for the purpose of a logistics center shall be closer than 75 feet from the boundary of any residential zoning district.

(c) All other outdoor storage and/or parking areas shall be delineated on the site plan.

[2] Landscape. Landscape plans must be submitted to the Planning Board prior to any approval.

(a) Appropriate buffers between any component of the proposed use and adjoining properties, given the proposed use, the use of adjoining parcels, and the natural topography and vegetative cover, shall be established by the conditional use permit and shall be identified on the site plan.

(b) Natural vegetation shall be maintained and or supplemented to provide screening and/or planting around all areas where trucks, trailers, or shipping containers may be parked overnight if these areas face adjacent property and/or the street. Notwithstanding the provisions of any other provision of the Town Code, the placement and/or use of trucks, trailers and/or shipping containers on the site of a Logistics Center shall be allowed provided that such screening and/or planting is provided.

[4] Site access. Driveway entrances and exits onto any street shall be provided in such a manner that no undue traffic hazards or traffic congestion will be created.

C. Operations. The Logistics Center shall be permitted to operate twenty-four hours per day, seven days a week, throughout the year.

D. Adjustment of regulations. The Planning Board may permit modifications or waivers of the provisions set forth at §§ 138-12(I) and 138-15.1 as it deems appropriate upon balancing important concerns of the community's health, safety and welfare, including: consistency with the Town of Southeast Comprehensive Plan; economic development; harmony of uses within the immediate area; impacts upon quality of life for neighboring residential areas and mitigation of any adverse environmental impacts. In granting any modification or waiver, the Planning Board may attach such

conditions as are, in its judgment, necessary to secure substantially the objectives of the standards or requirements so modified or waived.

APPENDIX I-1c

PLANNING BOARD
TOWN OF SOUTHEAST, NEW YORK
RESOLUTION – INTENT TO DECLARE LEAD AGENCY

INTRODUCED BY: LaPerch **DATE:** November 27, 2017

SECONDED BY: Wissee

WHEREAS, the Planning Board of the Town of Southeast is in receipt of an application for Site Plan, Special Permit, Wetland Permit and Subdivision, and other supporting documents for a project entitled **INTERSTATE LOGISTICS**; and

WHEREAS, the proposed project is located at Rte. 312 and Pugsley Road in the OP-3 and RC Zoning District in the Town of Southeast and identified as Tax Map IDs (see attached: Exhibit A); and

WHEREAS, the applicant proposes a re-subdivision to merge the 156 lots associated with the Campus at Fields Corner into five lots, and to construct a new logistics center. The proposed logistics center would have four warehouses totaling 1,124,575 square feet, and be located on four of the five lots. Warehouse number one would be 261,620 square feet, warehouse number two would be 173,775 square feet, warehouse number three would be 323,076 square feet, and warehouse number four would be 366,404 square feet. The Applicant has petitioned the Town Board for a zoning text amendment to make "logistics center" a new conditional use permit use in the OP-3 Zoning District; and

WHEREAS, pursuant to §617.6(b)(3) of the State Environmental Quality Review Act (SEQRA), the aforementioned information must be mailed to all involved agencies notifying them that a Lead Agency must be agreed upon within thirty (30) calendar days of the date that the aforementioned information is mailed to involved agencies, and

NOW, THEREFORE BE IT RESOLVED, that the Planning Board of the Town of Southeast hereby authorizes the mailing to all Involved Agencies of the aforementioned information, together with Notice that the Planning Board of the Town of Southeast intends to declare itself Lead Agency for purposes of SEQRA for this Type I and Coordinated Action, unless objection to such designation is received within thirty (30) days.

UPON ROLL CALL VOTE:

T. LaPerch, Chairman	yes	D. Rush, Vice Chairman	absent
P. Wissel, Boardmember	yes	D. Armstrong, Boardmember	absent
E. Cyprus, Boardmember	yes	M. Hecht, Boardmember	yes
E. Larca, Boardmember	yes		

The resolution was passed by a vote of 5 to 0, with 2 absent.

T. LaPerch/vad

T. LaPerch, Chairman
Southeast Planning Board

Exhibit A

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52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:
(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

PLANNING BOARD
(Lead Agency)
Town of Southeast

LIST OF INVOLVED AGENCIES:

INVOLVED/INTERESTED AGENCY	
Putnam County Department of Health 1 Geneva Road Brewster, New York 10509	Town Board 1360 Route 22 Brewster, NY 10509
SEQR Unit New York State Department of Transportation Traffic Engineering & Safety Division 4 Burnett Blvd. Poughkeepsie, NY 12603	Town Clerk 1360 Route 22 Brewster, NY 10509
New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233 ATTN: Commissioner	Zoning Board of Appeals 1 Main Street Brewster, NY 10509
New York State Department of Environmental Conservation Region 3 21 South Putt Corners New Paltz, NY 12561 ATTN: Regional Director	Architectural Review Board 1 Main Street Brewster, NY 10509
New York City Department of Environmental Protection Bureau of Water Supply 465 Columbus Avenue Valhalla, New York 10595-1336	Building Inspector 1 Main Street Brewster, NY 10509
Putnam County Highways & Facilities 842 Fair Street Carmel New York 10512	Highway Superintendent 10 Palmer Road Brewster, NY 10509
Putnam County Department of Planning/Development & Public Transportation Putnam County Transit Facility 841 Fair Street Carmel, New York 10512	E-911Coordinator / Assessor 1360 Route 22 Brewster, NY 10509
[redacted]	Chief, Eastern Permits Section Department of the Army New York District Corps of Engineers Jacob K. Javits Federal Building New York, NY 10278-0090
Zarin and Steinmetz for Interstate Logistics	Town of Patterson Patterson Town Hall PO Box 470 1142 Route 311 Patterson, New York 12563

Town of Southeast
Planning Board

November 28, 2017

To: All Involved Agencies (See attached list)

From: Town of Southeast Planning Board

Re: **INTERSTATE LOGISTICS**

Dear Sirs/Madams:

At the November 27, 2017 meeting of the Planning Board of the Town of Southeast, the Planning Board declared its Intent to be Lead Agency, pursuant to the New York State Environmental Quality Review Act (SEQRA) for the proposed project entitled Interstate Logistics located at Rte. 312 & Pugsley Road and identified as Tax Map IDs (see attached: Exhibit A). The proposed project has been classified as a Type I Action under SEQRA pursuant to 617.4(b)(6).

Enclosed is a disc containing the applicant's submission and a formal response form. Should no objections be received, the Town of Southeast Planning Board will declare itself Lead Agency at its January 8, 2018 regularly scheduled meeting. If you require additional materials for your review, the applicant will send them to you.

Sincerely,

Thomas LaPerch, Chairman
Town of Southeast Planning

Attachments

cc: Planning Board File

Exhibit A

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52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:
(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

RESPONSE TO REQUEST THAT THE
TOWN OF SOUTHEAST PLANNING BOARD
SERVE AS LEAD AGENCY FOR
INTERSTATE LOGISTICS

On behalf of _____ (Involved or Interested agency), I acknowledge receipt of the Lead Agency notice in this matter.

The above named involved agency hereby: (Please check one)

( ) CONSENTS that the Town of Southeast Planning Board serve as lead agency in this application, and requests that the undersigned continue to be notified of SEQR determinations, proceedings and hearings in this matter.

( ) DOES NOT CONSENT to the Town of Southeast Planning Board serving as lead agency in this application and wishes that _____ serve as lead agency.

To contest lead agency designation, the undersigned intends to follow the procedures outlined in 6 NYCRR 617.6 (e).

( ) TAKES NO POSITION on lead agency designation.

Date _____ Signature: _____

Printed: _____

Agency : _____

PLEASE RETURN TO: Victoria Desidero, Planning Board Secretary
1 Main Street
Brewster, NY 10509
Phone: (845) 279-7736
e-mail: planning@southeast-ny.gov

TOWN OF SOUTHEAST

Planning Board
1 Main Street
Brewster, NY 10509

November 28, 2017

Director
Putnam County Division of Planning and Development
841 Fair Street
Carmel, NY 10512

Re: Interstate Logistics
GML §239-m and §239-n Referrals

Dear Sir/Madame,

The Planning Board of the Town of Southeast is considering an application for a Site Plan, Subdivision, Wetland Permit and Conditional Use Permit by Interstate Logistics for the proposed re-subdivision to merge the 156 lots associated with the Campus at Fields Corner into five lots, and to construct a new logistics center. The proposed logistics center would have four warehouses totaling 1,124,575 square feet, and be located on four of the five lots. Warehouse number one would be 261,620 square feet, warehouse number two would be 173,775 square feet, warehouse number three would be 323,076 square feet, and warehouse number four would be 366,404 square feet. The Applicant has petitioned the Town Board for a zoning text amendment to make "logistics center" a new conditional use permit use in the OP-3 Zoning District. The proposed project would also rezone three parcels currently zoned Rural Commercial District to OP-3. The proposed project is located on an approximately ±42.54 acre parcel located at Rte. 312 and Pugsley Road, Putnam County, New York (Tax Map IDs. See attached Exhibit A).

The Planning Board, acting as Lead Agency under the State Environmental Quality Review Act (SEQRA), is herewith referring the subject application to the Putnam County Division of Planning and Development pursuant to General Municipal Law §239-m and §239-n.

Enclosed is the application for your review.

Please call Victoria Desidero, Secretary to Planning Board, Architectural Review Board and Zoning Board of Appeals, at (845)279-7736, if you should have any questions.

We thank you for your consideration and review of this application.

Sincerely,

Thomas LaPerch, Chairman
Town of Southeast Planning Board

Attachment

cc: Town Attorney
Town Clerk
Zarin and Steinmetz

Exhibit A

#	Tax ID #	#	Tax ID #	#	Tax ID #
1	45.-1-4	53	45.-3-46	105	45.-3-98
2	45.-1-5.2	54	45.-3-47	106	45.-3-99
3	45.-1-5.3	55	45.-3-48	107	45.-3-100
4	45.-1-8.1	56	45.-3-49	108	45.-3-101
5	45.-1-8.2	57	45.-3-50	109	45.-3-102
6	45.-1-8.3	58	45.-3-51	110	45.-3-103
7	45.-1-12	59	45.-3-52	111	45.-3-104
8	45.-1-13	60	45.-3-53	112	45.-3-105
9	45.-3-1	61	45.-3-54	113	45.-3-106
10	45.-3-2	62	45.-3-55	114	45.-3-107
11	45.-3-3	63	45.-3-56	115	45.-3-108
12	45.-3-4	64	45.-3-57	116	45.-3-109
13	45.-3-5	65	45.-3-58	117	45.-3-110
14	45.-3-6	66	45.-3-59	118	45.-3-111
15	45.-3-7	67	45.-3-60	119	45.-3-112
16	45.-3-8	68	45.-3-61	120	45.-3-113
17	45.-3-9	69	45.-3-62	121	45.-3-114
18	45.-3-10	70	45.-3-63	122	45.-3-115
19	45.-3-11	71	45.-3-64	123	45.-3-116
20	45.-3-12	72	45.-3-65	124	45.-3-117
21	45.-3-13	73	45.-3-66	125	45.-3-118
22	45.-3-14	74	45.-3-67	126	45.-3-119
23	45.-3-15	75	45.-3-68	127	45.-3-120
24	45.-3-16	76	45.-3-69	128	45.-3-121
25	45.-3-17	77	45.-3-70	129	45.-3-122
26	45.-3-18	78	45.-3-71	130	45.-3-123
27	45.-3-19	79	45.-3-72	131	45.-3-124
28	45.-3-20	80	45.-3-73	132	45.-3-125
29	45.-3-21	81	45.-3-74	133	45.-3-126
30	45.-3-22	82	45.-3-75	134	45.-3-127
31	45.-3-23	83	45.-3-76	135	45.-3-128
32	45.-3-24	84	45.-3-77	136	45.-3-129
33	45.-3-25	85	45.-3-78	137	45.-3-130
34	45.-3-26	86	45.-3-79	138	45.-3-131
35	45.-3-27	87	45.-3-80	139	45.-3-132
36	45.-3-28	88	45.-3-81	140	45.-3-133
37	45.-3-29	89	45.-3-82	141	45.-3-134
38	45.-3-30	90	45.-3-83	142	45.-3-135
39	45.-3-32	91	45.-3-84	143	45.-3-136
40	45.-3-33	92	45.-3-85	144	45.-3-137
41	45.-3-34	93	45.-3-86	145	45.-3-138
42	45.-3-35	94	45.-3-87	146	45.-3-139
43	45.-3-36	95	45.-3-88	147	45.-3-140
44	45.-3-37	96	45.-3-89	148	45.-3-141
45	45.-3-38	97	45.-3-90	149	45.-3-142
46	45.-3-39	98	45.-3-91	150	45.-3-143
47	45.-3-40	99	45.-3-92	151	45.-3-144
48	45.-3-41	100	45.-3-93	152	45.-3-145
49	45.-3-42	101	45.-3-94	153	45.-3-146
50	45.-3-43	102	45.-3-95	154	45.-3-147
51	45.-3-44	103	45.-3-96	155	45.-3-148
52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:
(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

ANDREW M. CUOMO
Governor

PAUL A. KARAS
Acting Commissioner

TODD WESTHUIS, P.E.
Regional Director

December 19, 2017

Thomas LaPerch
Town of Southeast Planning Board
1 Main Street
Brewster, NY 10509

Re: **NYSDOT SEQRA# 17-234**
Northeast Logistics Center
Route 312
Town of Southeast
Putnam County

Dear Mr. LaPerch:

The New York State Department of Transportation is in receipt of Lead Agency Designation Request from the T/O Southeast for the referenced proposal, received December 8, 2017. The Department consents to the Town Planning Board assuming the role of Lead Agency for review of the referenced proposal.

The proposed permit work is in the vicinity of a NYSDOT traffic signal, highway light, or other device with loop detection and/or buried conduit. The permittee shall locate all such underground facilities and note such on the construction plans. Damage to underground facilities are the responsibility of the permittee.

In an effort to enhance the Regional capabilities of managing traffic flow, providing real-time traffic data, minimizing delay and reducing congestion, the Region will be installing communication capabilities to all Region 8 traffic signals.

Effective immediately, the scope of work on all Capital Projects that include signal modification (at Pre-PSE Stage or earlier), shall be expanded to include the connection of the traffic signal to the Advanced Traffic Management System (ATMS) network by either a cable modem (preferred) or by a cellular modem (acceptable). Also, all signalized work under a Highway Work Permit will follow this guidance.

It is envisioned that critical, congested corridors must be addressed as a system where work is proposed. For more information or specific details, the Regional Signal Section should be contacted at (845) 437-3396.

The proposed action involves construction and will generate additional traffic which will impact on the state transportation system.

It is anticipated that a Highway Work Permit will be required as part of the proposed action. The applicant should also be encouraged to review the permit process and all required HWP forms on the NYSDOT website (https://www.dot.ny.gov/index). Please submit the PERM 33-COM as part of the submission.

The Site Plan supporting this proposal shall include GPS coordinates for the driveway centerline at its junction with the State Highway.

Please submit subsequent plans and documents for this project as well as those for any future development proposals in DIGITAL (.pdf) FORMAT –CD, DVD or Thumb drive.

Sidewalk must comply with current ADA requirements. The values shown on the table "Critical Elements for the Design, Layout and Acceptance of Pedestrian Facilities" shall be used to ensure that pedestrian facilities in the public right of way are ADA compliant. Please refer to Engineering Directive ED15-004. The applicant will need to provide inspection services as indicated.

Engineering Directive ED15-004 - Design, Construction and Inspection of Pedestrian Facilities in the Public Right-of-Way
The values shown on the table "Critical Elements for the Design, Layout and Acceptance of Pedestrian Facilities" shall be used to ensure that pedestrian facilities in the public right of way are ADA compliant. Please refer to engineering directive ED15-004. When submitting proposed permit projects for NYSDOT review, the applicant's engineer will need to include a letter or statement within the transmittal letter that the submitted design is compliant with ED15-004 and all other applicable codes, standards, and specifications. The applicant will also need to provide inspection services as indicated. In particular, the applicant's engineer will perform the required pre-pour concrete form inspection, completed construction inspection, and submit a signed, sealed document confirming compliance with ED15-004 and all other applicable codes, standards, and specifications. In instances where nonstandard features cannot be avoided a justification form will need to be completed under the process promulgated under the Highway Design Manual Chapter 2 (Refer to Exhibit 2-15A).

All proposed work within the NYSDOT Right-of-Way requires a Highway Work Permit (HWP). A detailed engineering review is necessary and required for issuance of a HWP. Please note that any proposed changes to the existing property plan, use, or traffic operations may necessitate an updated access configuration for the proposed project. The HWP applicant should be directed to contact the local NYSDOT-HWP Engineer to initiate a review process. Please contact: Al DeNigro, Permit Engineer, NYS Department of Transportation, 106 Ludingtonville Road, Holmes, NY 12531. Phone # (845) 878-6363.

A Traffic Impact Study shall be prepared and submitted to this Department for further review and comments.

Depending upon the size of the proposed improvement or impact to the NYSDOT Right-of-Way, additional engineering details may be required. These details may include a Traffic Impact/Accident Study, SYNCHRO analysis for all affected highways/intersections, Site Plan(SP), Accident Counter-measures/Mitigation, Highway Improvement Plan (HIP), and/or other submissions as directed by the Permit Engineer.

Lead Agency approval under SEQR is required in advance of permitting.

Provide a sight distance matrix including design speed, posted speed, each type of turning movement, required sight distance for each type of turning movement, available sight distance, variance (if any), support for variance. Labeled and dimensioned sight distance triangles need to be shown on plans.

This project is subject to the requirements of the State's Drivers First initiative. Delay to the traveling public must be minimized.

The applicant is required to satisfactorily complete the Smart Growth Prescreening Tool required under the NYS Smart Growth Public Infrastructure Policy Act (SGPIPA).

Future submissions shall be electronic (PDF) with two paper copies to the Poughkeepsie office and one paper copy to the Holmes office below:

Regional Permit Coordinator
NYS Department of Transportation
4 Burnett Blvd.
Poughkeepsie, NY 12603

Permit Engineer, Residency 8-3
NYS Department of Transportation
106 Ludingtonville Road
Holmes, NY 12531

Very truly yours,

Lee Zimmer, P. E.
Regional Permit & Signal Manager

cc: A Denigro, Permit Engineer, Residency 8-3
Richard J. Pearson, PE, PTOE, JMC
Southeast Planning Board

Putnam County
Department of Planning, Development, and Public Transportation

www.putnamcountyny.com

Sandra M. Fusco
Deputy Commissioner

841 Fair Street
Carmel, NY 10512

Phone: (845) 878-3480
Fax: (845) 808-1948

SECTION 239 CASE REFERRAL

Case Received: 11-30-17 **Report Required:** 12-30-17 **Completed:** 12/21/17

Application Name: Interstate Logistics **Referral #:** 17-PC-108

TOWN: Carmel: [ ] Philipstown: [ ] **VILLAGE:** Brewster: [ ]
Kent: [ ] Putnam Valley: [ ] Cold Spring: [ ]
Patterson: [ ] Southeast: [X] Nelsonville: [ ]

Referred by: PB: [X] ZBA: [ ] Town Board: [ ] Historic District Review Board: [ ]

Location of Project: Route 312 & Pugsley Road, Town of Southeast

Present Zone: OP-3 **Tax Map #:**

Type of action: Variance: [ ] Zoning Ordinance: [ ] Master Plan: [ ]
Subdivision: [X] Special Use Permit: [X] Subdivision Regulations: [ ]
Site Plan: [X] Rezoning: [ ] Certificate of Appropriateness: [ ]
Zoning Amendment/Interpretation: [ ]

DECISION BY COUNTY:

Approved as Submitted: [ ] Modification: [X] Disapproved: [ ]

Basis for Decision Other than Approval:

See attached letter.

Reviewed by Barbara Barosa *(Signature)* Barbara Barosa, Planner *(Title)*

rc 9-16/word

RECEIVED
DEC 27 2017
Town of Southeast

Putnam County
Department of Planning, Development, and Public Transportation
www.putnamcountyny.com
841 Fair Street
Carmel, NY 10512
Phone: (845) 878-3480 **Fax: (845) 808-1948**

December 21, 2017

Chairman Thomas LaPerch and Members of the Southeast Planning Board
1 Main Street
Brewster, NY 10509

RE: GML §239 (m) and (n) Referrals – Interstate Logistics

Dear Chairman LaPerch & Members of the Planning Board,

The Putnam County Department of Planning & Development (the "Department") initiated its review of the 1,691 pages of materials submitted as part of the GML §239 (m) and (n) referral in connection with Interstate Logistics' application submitted to the Town of Southeast Planning Board for its consideration. The application requires a site plan, subdivision, and wetland and conditional use permit from the Town of Southeast for the proposed subdivision to merge 156 lots into 5 lots and construct a logistics center. The proposed logistics center intends to include 4 warehouses totaling 1,124,575 square feet located at Route 312 and Pugsley Road in the Town of Southeast, Putnam County, New York.

At this time and as aforesaid, additional materials are needed before the Department is able to complete its review, including, without limitation, a completed DEIS/ FEIS and Findings Statement. Notwithstanding, Putnam County looks forward to participating as an Involved Agency in the SEQR review process and requests that the Town of Southeast Planning Board continue to forward all pertinent materials, information and the like in connection herewith to the Department for ongoing GML §239 (m) and (n) review and subsequent determination.

If you have any questions or comments, please feel free to call me at 845-878-3480 x 48107.

Sincerely,

Barbara Barosa

Barbara Barosa, AICP
County Planner

SUPERVISOR
Richard Williams Sr.
Tel. (845) 878-6500
Fax. (845) 878-6343
supervisor@pattersonny.org

TOWN BOARD
Kevin Burns
Charles W. Cook
Peter Dandreano
Shawn Rogan

TOWN COUNSEL
Hogan & Rossi
Tel. (845) 279-2986
Fax. (845) 278-6135

TOWN OF PATTERSON
1142 Route 311
P.O. Box 470
Patterson, New York 12563
www.pattersonny.org

TOWN CLERK
Antoinette Kopeck
Tel. (845) 878-6500
Fax. (845) 878-6343
townclerk@pattersonny.org

January 3, 2018

Honorable Tony Hay, Supervisor
Town of Southeast
1360 Route 22
Brewster, NY 10509

Mr. Thomas LaPerch, Chairman
Southeast Planning Board
1 Main Street
Brewster, NY 10509

RECEIVED
JAN - 8 2018
Town of Southeast

Re: Northeast Interstate Logistics Center

Dear Supervisor Hay and Chairman LaPerch:

I am requesting that the Town of Patterson be considered as an involved/ interested agency for the purpose of participation in the State Environmental Quality Review of the project. The request is made pursuant to the Town's authority to approve any improvements that will be required for Fields Corners Road, the potential traffic impact to Fields Corners Road from the above-mentioned project, and the need to mitigate the traffic impacts.

The initial submission to the Southeast Planning Board describes the potential impacts to the area's network of roads:

- There will be an estimated 720 semi-trailer trips each day (EAF, Section D.2.j)
- AM Peak hour traffic with the Project at the Pugsley Road/Route 312 intersection is estimated to be 268 vehicles.
- PM Peak hour traffic with the Project at the Pugsley Road/Route 312 intersection is estimated to be 274 vehicles.

- The traffic report provides that the Pugsley Road/Route 312 intersection will be improved and signalized. After the improvements and signalization are complete, under a "build" scenario the weekday AM Peak Hour intersection will operate at a level of service "D". During the weekday PM Peak Hour and Saturday Peak Hour the intersection will operate at a Level of Service "E".

It is likely that many of the employees will live in Dutchess County. It is also likely that the center will see merchandise coming to the site from Stewart Airport. All of this will lead to significant shortcutting by commuters and semi trailers using the route of Fields Corners Road/Fair Street/Route 311, as semi-trailers and commuters seek shorter paths with less delays between the Project site and I-84 north. It is somewhat disconcerting that the Project's Traffic Consultant did not even consider the possibility of northbound traffic on Pugsley Road in their traffic analysis. The potential significant increase in traffic along this alternate route will require major improvements to Fields Corners Road, Fair Street and especially the Fair Street/Route 311 intersection.

More importantly, this alternate route runs through residential neighborhoods. All of this additional traffic will adversely affect the quality of life over 200 families that live along this alternate route to I-84, and must be avoided.

It has been over twenty-three years since the environmental impact statement for the Campus at Fields Corners was completed. The finding statement adopted by the Southeast Planning Board required improvements to Fields Corners Road in order to accommodate the increase in traffic from that project. The Traffic Study shows that the Northeast Logistics project will cause a significant increase in the volume of traffic over the traffic generated by the Campus at Fields Corners project. The additional traffic will only increase the need to improve Fields Corners Road to Fair Street. Fields Corners Road is a Town road under the jurisdiction of the Town of Patterson and would require approval of the Town for any improvements to that road. I have no record that the Town of Patterson having been considered an involved agency at the time of the Campus at Fields Corners EIS. Since that time there have been significant changes to rules and regulations governing development in our area, to our understanding of potential adverse environmental impacts, and of how to properly to mitigate them. The Applicant is proposing a completely different project then was assessed in the early 1990's. A new environmental impact statement must be prepared for this project. All potential adverse environmental impacts, including those to all of the roads that will be affected must be evaluated and any adverse impacts must be mitigated or avoided.

Please feel free to contact me if you have any questions.

Sincerely yours,

Richard Williams Sr.
SUPERVISOR

cc: Patterson Town Board
Patterson Planning Board
Patterson Town Attorney

NYC Environmental Protection

Vincent Sapienza P.E.
Acting Commissioner

Paul V. Rush, P.E.
Deputy Commissioner
Bureau of Water Supply
prush@dep.nyc.gov

465 Columbus Avenue
Valhalla, NY 10595

T: (845) 340-7800
F: (845) 334-7175

January 8, 2018

Mr. Thomas LaPerch, Chairman
Town of Southeast Planning Board
1 Main Street
Brewster, NY 10509

Re: **Notice of Intent to be Lead Agency**
Northeast Interstate Logistic Center
Pugsley Road
Town of Southeast, Putnam County, NY
Tax map #: 45.-1-4, 5,8,12, & 13
DEP Log#: 1997-MB-0246-SQ.2

Dear Mr. LaPerch and Members of the Planning Board:

The New York City Department of Environmental Protection (DEP) has reviewed the Town of Southeast Planning Board's (Board) Notice of Intent to act as Lead Agency and full Environmental Assessment Form (EAF) for the above referenced project. DEP does not object to the Board acting as Lead Agency for the Coordinated Review of the proposed action pursuant to the New York State Environmental Quality Review Act (SEQRA).

The parcels proposed for development are located in the Middle Branch Reservoir drainage basin of New York City's Water Supply. Middle Branch Reservoir is phosphorous restricted; therefore, water quality impacts to the receiving reservoir from pollutant-laden runoff must be avoided or mitigated.

The proposed action involves the construction of a. "logistic center "comprised of over 1.1 million square feet of warehouse space divided into four buildings on five (5) separate tax lots. Warehouse #1 will be 261,320 sq. ft.; warehouse #2 173,775 sq. ft.; warehouse #3 323,076 sq. ft.; and warehouse #4 366,404 sq. ft. The proposed development is to be served by on-site potable water supply wells and four (4) subsurface treatment systems (SSTS). The project also consists of parking for 466 spaces plus 310 land banked spaces. The widening of Pugsley Road and the installation of a traffic light at NY Route 312 is also part of the action. Site access will be via a new driveway from Pugsley Road. Additionally, the proposed action requires a change in zoning from RC to OP-3.

The proposed site was previously slated to be developed into a ±140 single-family residential subdivision known as Campus at Field Corner. The environmental review for that action considered the soil disturbance, traffic, water and sewer demands of the domestic proposal. The current documentation is confusing in that it describes the redevelopment of a portion of the project site and references the previous action. Moreover, it is understood from

discussions with Town officials that the formerly proposed action that was granted DEP approvals, which have since expired, is no longer being considered for development. As such, this action is considered to be a new application before the Board and is undergoing a separate environmental review and should not be "piggy-backed" on the documentation prepared to support the former Campus at Fields Corner action.

DEP's status as an involved agency stems from its review and approval authority for a Stormwater Pollution Prevention Plan (SWPPP) pursuant to Section 18-39(b)(3)(iv) of the *Rules and Regulations for the Protection from Contamination, Degradation, and Pollution of the New York City Water Supply and Its* Sources (Watershed Regulations). DEP also maintains review and approval authority of the subsurface septic treatment systems (SSTS) pursuant to Section 18-38 of the Watershed Regulations and the Delegation Agreement with the Putnam County Department of Health (PCDH). A Crossing, Piping or Diversion Permit (CPDP) approval by DEP may also be required or another regulatory agency.

The following discrepancies are noted in the EAF and should be revised accordingly:

1. Part 1.B.f of the EAF should be revised to include DEP review of the commercial SSTSs.

2. Part 1.D.1.states that phasing is dependent on market conditions. That is an inadequate response for a project of this magnitude and seems to indicate that the venture is speculative. Moreover, given the widening of Pugsley Road and improvements to Route 312, installation of utilities and other features that must be developed to support the action, a proper sequence of development must be prepared. The project sponsor is reminded that site disturbance is limited by the NYS Construction General Permit to no greater than five acres of soil at any one time.

3. Part 1.D.2.b.ii of the EAF indicates +/- 12 acres of wetland disturbance. The submitted documentation indicates that direct wetland impacts comprise .15 acres of this disturbance while town and DEC buffer disturbance comprise 11.7 acres. This section of the EAF should specify the extent of direct wetland disturbance, the extent that is within the DEC/Town shared 100-foot buffer, and within the additional 66-foot width of the Town wetland buffer.

4. Part 1.D.2.t indicates that the proposed action will not store any hazardous materials, yet the project description indicates that the facility involves refrigeration. Please have the project sponsor clarify whether the refrigeration involves the storage of Freon on-site and the quantities involved.

5. Table E1.b of the EAF should reflect the 0.15 acres of wetland disturbance anticipated post construction.

6. Part 1.E.3.a of the EAF references that the project site is located adjacent to an agricultural district. A conservation easement is maintained on the adjacent agricultural parcel and the conditions of the easement should be considered.

Based upon the review of the submitted documents, DEP respectfully submits the following comments for the Board's consideration:

1. DEP has not witnessed soil testing at the project site and cannot verify that the proposed stormwater practices are viable and will function as intended. Moreover, some of the infiltration practices appear to be situated on steep slopes. No portion of the infiltration practice shall be located on slopes in excess of 15% as per the criteria in the *New York State Stormwater Management Design Manual* (Design Manual), dated January 2015. The owner's representative is encouraged to contact Jason Coppola at (914) 749-5360 to arrange for DEP to visit the site and witness soil testing in the area of the proposed stormwater management practices.

2. According to the set of drawings entitled "Northeast Logistics Center," prepared by JMN Consulting, LLC and dated 11/06/2017, there appears to be no treatment of stormwater runoff from the newly widened and paved portions of the Pugsley Road, Zimmer Road and Route 312. Runoff from these developed areas must be properly attenuated and treated.

3. The project will generate increases in both runoff quantity and pollutant loading. DEP suggests that the project sponsor conduct a pollutant loading analysis (pre- and post-development) to further justify appropriate mitigation.

4. Most of the project area is located on Paxton soil. Paxton soil typically exhibits seasonally high groundwater. This can potentially limit the feasibility for the treatment of wastewater. As the soil testing results included in the submission are from 1987, the project sponsor is encouraged to schedule soil testing with DEP and the PCHD in order to demonstrate that the proposed treatment area(s) can accommodate the proposed flows.

   In addition, seasonally high groundwater may preclude the use of some of these areas identified for stormwater infiltration and limit the storage volume available for attenuation, should the detention basins be excavated into seasonally high groundwater.

5. Part D.2.e states that stormwater runoff will flow to adjacent properties. Exhibit A lists the waterbodies to which stormwater runoff is directed. Thermal impacts to the surface waterbodies are not discussed and should be identified and appropriate mitigation identified.

6. Overall, mitigation for the proposed action is minimal at best. As almost 80 acres of meadow and over 32 acres of forest are being lost as a result of the proposed development, the project sponsor is encouraged to consider additional conservation and/or restoration of vegetation to the extent practicable to improve stormwater mitigation and temperature moderation. Such measures could include the use of green rooves and solar energy especially since the building will be brand new and state of the art. The energy use for the proposed action is not identified; however the EAF states that the facility will operate 24 hours, 7 days a week. Often there are grants for design excellence for energy star rated buildings and building with environmentally friendly designs to reduce thermal impacts.

Furthermore, the expanded EAF indicates that buffer disturbances will be mitigated through an invasive species management plan. No details of this plan were provided. The species being treated should be identified, and the proposed treatment and restoration methods should be circulated for review. The location and extent of invasive species management areas should be shown on the plans as well.

7. Although the EAF indicates that the proposed action involves no excavation, this seems unlikely given the project layout and 145 acres of soil disturbance. However, this issue cannot be adequately reviewed without the plans including cut and fill balances. As such, DEP urges the applicant to submit a cut and fill balance along with a discussion of proposed construction phasing to allow a thorough review of potential adverse impacts to both ground and surface water.

8. The basis for the estimated water usage of 10,000 for ± 990 employees should be provided.

9. Recently, public attention has been directed to the available already developed commercial sites situated in proximity to major roadways such as Interstates 684 & 84 that may be able to support the proposed action. These include, but are not limited to, sites such as the former GAP Warehouse in Fishkill. The reason this is mentioned is that 57 acres of new impervious surface within close proximity to Middle Branch Reservoir represents a potential adverse impact to a surface sourced drinking water for more than 8 million consumers.

10. It is unclear that the proposed 2-lane car width of Pugsley Road is adequate for the amount of and type of traffic that will be generated as a result of the proposed action as the traffic study references a "typical warehouse", yet the proposed action is not for a typical warehouse but for a complex repacking/redistribution center. Should this be the case, the amount of new impervious surface along this road will increase and the area for treatment of stormwater runoff will be diminished resulting in a negative impact.

Appendix C: Biological Assessment Report

Although the Biological Assessment Report does provide historical land use information and a description of the natural communities currently present, it fails to provide a location (i.e., map) and break-down in acreage of how much each type of community will be impacted. The consultant should provide a letter from New York National Heritage Program detailing plant and animal species known to occur in the vicinity. In addition to the nationally listed species, there are limits to conservation requirements for state-listed rare plant species, yet the report falls short in documenting whether any other species are present or found in the vicinity. Furthermore, impacts to each community and a list of wildlife species present or likely to occur should be added to the report as no information was provided in the section E.2.m of the EAF where species present would normally be listed.

The following comments refer specifically to the submitted set of drawings and preliminary SWPPP:

1. Based on the drainage area maps provided in the preliminary SWPPP, DEP anticipates substantial changes and revisions to the hydrologic analysis before a reasonable model of the runoff characteristics is available for review. Therefore, DEP cannot accept the results of the analysis that have been presented at this time.

2. Based on the preliminary sizing calculations provided for infiltration practices, it appears that the volume of runoff from the 1-year, 24-hour storm event tributary to several of the practices will be quite large. In fact, preliminary calculations indicate that the bottom of several infiltration basins will be on the order of ½ acre in size. Infiltrating this sheer volume of runoff from the 1-year storm alone in concentrated areas can result in faster flow through the underlying soils and/or saturation of underlying soils. This in turn might limit the ability of the underlying soil to adequately treat runoff prior to discharge to groundwater and/or result in surface outbreak on steeper slopes below the practice. The lead agency may wish to consider the effects of groundwater mounding under infiltration areas.

3. It appears that the infiltration practices have not been designed as off-line practices. This means that larger (attenuation) flows into the basins prior to discharge to detention basins. Not only is this type of design discouraged and/or disallowed by the NYS Stormwater Management Design Manual, it may also lead to excessive infiltrative loading on the basal area of the practice, and scouring or clogging of the practices from excessive velocities and debris.

   Further, the entire berm for the stormwater management practice associated with the development of warehouse #2 is within the regulated NYS FWW buffer LC-28. Development in the wetland buffer, is a practice that DEP has consistently discouraged as modification to the wetland buffers alters the natural water quality enhancements that such areas provide.

4. It appears that proprietary hydrodynamic separators are proposed for treatment of runoff from new impervious surfaces associated with construction of Barrett Road. As Barrett Road is predominantly a "paper road" and does not exist, but for a narrow footpath for any significant length, it is not likely to be considered an "existing road" for the purposes of the Watershed Regulations. Further, little or no part of the length that does physically exist is paved. Therefore, it is not an existing impervious surface and the Design Manual redevelopment criteria does not likely apply. Proposed impervious surfaces in areas that are now pervious (including gravel) for Barrett Road, aligning Pugsley, Fields Corner, and Zimmer Roads must comply with requirements for new development. As such, it appears that the criteria for new development are not met for the project as proposed.

5. Drawing C-401 to C-405 Erosion & Sediment Control Plan. Note 7 should clarify that stockpiled materials are not to be placed within the dripline of any trees intended to be preserved on the site. These trees should be protected by an appropriate barricade/fence.

6. Note 9.A.1 indicates use of either annual or perennial ryegrass for temporary seeding. Please note that perennial ryegrass should not be used anywhere that will subsequently be seeded with native seed mixes as it will out-compete native grasses.

7. Note 10 states that all seeded areas shall be fertilized…as necessary to maintain vigorous, dense vegetative cover. Please note that this site is within a phosphorus-restricted drainage basin and fertilizers containing phosphorus should not be used. There are state regulations regarding use of fertilizers and recommendations for the use of phosphorus-containing fertilizers. In addition, within the New York City watershed it is recommended that fertilizers be applied as a result of soil testing that indicates a need for it rather than the manufacturer's recommendations.

8. No permanent seed mixes are noted here. Please note that permanent seed mixes should be appropriate to land uses and locations, particularly within wetlands and wetland buffers, in and around detention basins, and other areas.

9. Drawing C-501 to C-505 Landscaping Plan. Most species selected for the landscaping plan are either native or are not currently known to become invasive; however, it is recommended to reconsider the following species in the plant list or to provide additional details, as noted below:

    a. Norway spruce, though commonly planted in the early 20th century, is not native to the U.S. and has been observed to reproduce in wetland areas, potentially becoming invasive and replacing native species. The native white spruce (Picea glauca) may be a better choice.

    b. Arborvitae is known to be a species that can be decimated by deer in areas with high deer populations. If planting this species, consider using taller specimens (perhaps 8-10' tall) to get them out of reach of deer herbivory.

    c. Although not yet listed by New York State as invasive, a couple of species on the list are known to escape cultivation easily and may become invasive locally (as is the case with Norway spruce). These include fountain grass and leatherleaf viburnum. Please consider replacing these with little bluestem (*Schizachyrium scoparium*) and wild hydrangea (*Hydrangea arborescens*).

    d. No details are provided about the seed mixes: Deer Resistant Short Prairie Mix for Medium Soils, NYSDEC Stormwater Basin Mix #1 or NYSDEC Stormwater Basin Mix #2 on Drawing C-505. Not enough information is provided regarding the types of seed species contained in the mixes nor can it be determined whether the mixes are appropriate for use in the designated locations. Several companies have seed mixes with the Deer Resistant Mix namely (Prairie Nursery in Wisconsin, American Meadows in Vermont and Native American Seed in Texas) and none is a mix of species native to New York. While a small percentage of non-native species may be acceptable, it is preferred to limit this to less than 10%. Please have the project sponsor provide a complete list of species contained in each mix and, where applicable, the section of the New York State Standards and Specifications for Erosion and Sediment Control where it appears. Likewise, the quantity of seed per acre or per 1000 sq. ft. is not provided. Quantities of seed on a by-area basis- not just the area to be covered, should be called out on the plan.

e. Drawing C-900 Construction Details. Detail 6 Tree Protection appears to provide adequate tree protection measures, however, it does not require the removal of part F, the wood bound to the trunk with 9 gauge wire to protect against mechanical injury, and G, the 8-12" of mulch to protect against root injury. If left in place after construction, either of these measures will cause tree mortality. Removal of these components once final grading is complete should be noted in the detail.

f. Drawing C-903 Construction Details. Tree Staking Detail 56 - a note should be added to require the removal of stakes and bands before the end of the first year after planting. Leaving these materials in place will lead to tree mortality, over time.

Based upon the review of the materials received and the intensity of development, the proposed Type I action has the potential to result in at least one significant adverse environmental impact. Specifically, the project may result in a substantial adverse change in existing groundwater or surface water quality or quantity; as defined by 6 NYCRR 617.7(c)(1)(i); the removal or destruction of large quantities of vegetation (6 NYCRR 617.7(c)(1)(ii)); and/or the potential impairment of existing community or neighborhood character (6 NYCRR 61.7(c)(1)(v). As such, DEP, as an involved agency, recommends that the Board issue a positive declaration and direct the applicant to prepare a Draft Environmental Impact Statement (DEIS). DEP further urges the Board to conduct public scoping in accordance with 6 NYCRR 617.8.

DEP submits this letter to you as lead agency as part of a coordinated SEQRA review. Thank you for the opportunity to provide comments. You may reach the undersigned at cgarcia@dep.nyc.gov or (914) 749-5302 with any questions or if you care to discuss the matter further.

Sincerely,

Cynthia Garcia

Cynthia Garcia, Supervisor
SEQRA Coordination Section

X: A. Dangler, USACOE
J. Petronella, NYSDEC
M. Budzinksi, P.E. PCDH
D. Richmond, Zarin & Steinmetz
JMC Planning, Site Development Consultants, LLC

PLANNING BOARD
TOWN OF SOUTHEAST, NEW YORK
RESOLUTION TO DECLARE LEAD AGENCY

INTRODUCED BY: La Perch **DATE:** May 14, 2018

SECONDED BY: Rush

WHEREAS, the Planning Board of the Town of Southeast is in receipt of an application for a Site Plan, Special Permit, Wetland Permit and Subdivision, and other supporting documents for a project entitled **INTERSTATE LOGISTICS;** and

WHEREAS, the proposed project is located at 51 Pugsley Road in the RC Zoning District in the Town of Southeast and identified as Tax Map IDs (see attached: Exhibit A);; and

WHEREAS, the applicants propose a re-subdivision to merge the 156 lots associated with the Campus at Fields Corner into five lots, and to construct a new logistics center. The proposed logistics center would have four warehouses totaling 1,124,575 sq. ft., and be located on four of the five lots. Warehouse number one would be 261,620 sq. ft., warehouse number two would be 173,775 sq. ft., warehouse number three would be 323,076 sq. ft., and warehouse number four would be 366,404 sq. ft. The Applicant has petitioned the Town Board for a zoning text amendment to make "logistics center" a new conditional use permit use in the OP-3 Zoning District; and

WHEREAS, the Planning Board declared its Intent to be Lead Agency for the project on 11/27/17; and

WHEREAS, pursuant to §617.6(b)(3) of the State Environmental Quality Review Act (SEQRA), the aforementioned information was mailed to all involved agencies, notifying them that a Lead Agency must be agreed upon within thirty (30) days of the date that the aforementioned information was mailed, and

NOW, THEREFORE BE IT RESOLVED, that the Planning Board of the Town of Southeast will serve as Lead Agency for purposes of SEQRA for this Unlisted and Coordinated Action.

UPON ROLL CALL VOTE:

T. LaPerch, Chairman	yes	D. Rush, Vice Chairman	yes
P. Wissel, Boardmember	yes	D. Armstrong, Boardmember	yes
E. Cyprus, Boardmember	yes	M. Hecht, Boardmember	yes
E. Larca, Boardmember	yes		

The resolution was passed by a vote of 7 to 0, with 0 absent.

T. LaPerch
T. LaPerch, Chairman
Southeast Planning Board

Exhibit A

#	Tax ID #	#	Tax ID #	#	Tax ID #
1	45.-1-4	53	45.-3-46	105	45.-3-98
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3	45.-1-5.3	55	45.-3-48	107	45.-3-100
4	45.-1-8.1	56	45.-3-49	108	45.-3-101
5	45.-1-8.2	57	45.-3-50	109	45.-3-102
6	45.-1-8.3	58	45.-3-51	110	45.-3-103
7	45.-1-12	59	45.-3-52	111	45.-3-104
8	45.-1-13	60	45.-3-53	112	45.-3-105
9	45.-3-1	61	45.-3-54	113	45.-3-106
10	45.-3-2	62	45.-3-55	114	45.-3-107
11	45.-3-3	63	45.-3-56	115	45.-3-108
12	45.-3-4	64	45.-3-57	116	45.-3-109
13	45.-3-5	65	45.-3-58	117	45.-3-110
14	45.-3-6	66	45.-3-59	118	45.-3-111
15	45.-3-7	67	45.-3-60	119	45.-3-112
16	45.-3-8	68	45.-3-61	120	45.-3-113
17	45.-3-9	69	45.-3-62	121	45.-3-114
18	45.-3-10	70	45.-3-63	122	45.-3-115
19	45.-3-11	71	45.-3-64	123	45.-3-116
20	45.-3-12	72	45.-3-65	124	45.-3-117
21	45.-3-13	73	45.-3-66	125	45.-3-118
22	45.-3-14	74	45.-3-67	126	45.-3-119
23	45.-3-15	75	45.-3-68	127	45.-3-120
24	45.-3-16	76	45.-3-69	128	45.-3-121
25	45.-3-17	77	45.-3-70	129	45.-3-122
26	45.-3-18	78	45.-3-71	130	45.-3-123
27	45.-3-19	79	45.-3-72	131	45.-3-124
28	45.-3-20	80	45.-3-73	132	45.-3-125
29	45.-3-21	81	45.-3-74	133	45.-3-126
30	45.-3-22	82	45.-3-75	134	45.-3-127
31	45.-3-23	83	45.-3-76	135	45.-3-128
32	45.-3-24	84	45.-3-77	136	45.-3-129
33	45.-3-25	85	45.-3-78	137	45.-3-130
34	45.-3-26	86	45.-3-79	138	45.-3-131
35	45.-3-27	87	45.-3-80	139	45.-3-132
36	45.-3-28	88	45.-3-81	140	45.-3-133
37	45.-3-29	89	45.-3-82	141	45.-3-134
38	45.-3-30	90	45.-3-83	142	45.-3-135
39	45.-3-32	91	45.-3-84	143	45.-3-136
40	45.-3-33	92	45.-3-85	144	45.-3-137
41	45.-3-34	93	45.-3-86	145	45.-3-138
42	45.-3-35	94	45.-3-87	146	45.-3-139
43	45.-3-36	95	45.-3-88	147	45.-3-140
44	45.-3-37	96	45.-3-89	148	45.-3-141
45	45.-3-38	97	45.-3-90	149	45.-3-142
46	45.-3-39	98	45.-3-91	150	45.-3-143
47	45.-3-40	99	45.-3-92	151	45.-3-144
48	45.-3-41	100	45.-3-93	152	45.-3-145
49	45.-3-42	101	45.-3-94	153	45.-3-146
50	45.-3-43	102	45.-3-95	154	45.-3-147
51	45.-3-44	103	45.-3-96	155	45.-3-148
52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:
(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

PLANNING BOARD
TOWN OF SOUTHEAST, NEW YORK

RESOLUTION TO ISSUE A POSITIVE DECLARATION, NOTICE OF COMPLETION OF DRAFT ENVIRONMENTAL IMPACT STATEMENT, AND SET A PUBLIC HEARING

INTRODUCED BY: LaPerch DATE: June 14, 2018
SECONDED BY: Cyprus

WHEREAS, Putnam Seabury Partners, L.P (the "Applicant") has petitioned the Town of Southeast, NY, for an amendment to the Zoning Ordinance and Map of the Town of Southeast, and is requesting a re-subdivision, Site Plan, Conditional Use Permit, and Wetland Permit approval for an approximately 1,125,000 square foot logistics center to be known as the Northeast Interstate Logistics Center on an approximately 328 acre site located at New York State (NYS) Route 312 and Pugsley Road (the "Project Site");

WHEREAS, the Project Site, which is currently comprised of 156 tax parcels, is proposed to be re-subdivided into 5 tax parcels and a sixth lot is proposed to be created pursuant to a lot line adjustment, which application shall be heard simultaneously;

WHEREAS, the proposed Northeast Interstate Logistics Center would include four buildings ranging in size from 173,775 to 366,404 square feet;

WHEREAS, the proposed buildings would be located on Lots 1, 2, and 3; Lot 4 would remain vacant except for potable water wells; Lot 5 is proposed to be donated to Putnam County for new access to Tilly Foster Farm and potential related uses; and Lot 6 would be donated to the New York State Department of Transportation to accommodate traffic improvements that would be constructed as part of the Proposed Project;

WHEREAS, to facilitate the Proposed Project, the Applicant requests to rezone approximately 39 acres on the west side of Pugsley Road from Rural Commercial (RC) to Office Park 3 (OP-3), and the remaining parcels would retain their existing zoning designation.

WHEREAS, in addition, the Applicant proposes to add "logistics center" as a "conditional use permit" use in the OP-3 Zoning District, and is proposing criteria for the review of Logistics Center uses;

WHEREAS, the Applicant submitted a Full Environmental Assessment Form (EAF) with supplemental studies on November 6, 2017;

WHEREAS, the Planning Board determined that the Proposed Project is a Type 1 Action pursuant to the State Environmental Quality Review Act (SEQRA);

WHEREAS, the Planning Board at its November 27, 2017, meeting directed that a Notice of Intent to act as Lead Agency be circulated to Interested and Involved Agencies;

WHEREAS, the Applicant, pursuant to §§617.6(a)(4), 617.8(c) and 617.9 of the regulations implementing SEQRA, has prepared a Draft Environmental Impact Statement (DEIS) which was

submitted in sections to the Planning Board starting on or about April 4, 2018, and a full document was submitted to the Planning Board on May 11, 2018;

WHEREAS, the Planning Board received no objections to the Notice of Intent and declared itself Lead Agency on May 14, 2018;

WHEREAS, the Planning Board directed its consultants, AKRF, Inc., Nathan L. Jacobson and Associates, P.C., and Stephen W. Coleman Environmental Consulting to review the document prepared by the applicant and to advise the Planning Board on the sufficiency of the document for the purposes of commencing public review;

WHEREAS, AKRF, Inc. submitted memorandums to the Planning Board regarding the sufficiency of the document on May 4, 2018, May 16, 2018, and May, 24, 2018, which indicated that the document was not complete for the purposes of commencing public review and recommended revisions;

WHEREAS, the Applicant submitted a revised DEIS to the Planning Board on June 8, 2018 which responded to the comments from the Planning Board and its consultants;

WHEREAS, Stephen W. Coleman Environmental Consulting, AKRF, Inc., and Nathan L. Jacobson and Associates, P.C., submitted memorandums to the Planning Board dated June 11, 2018, June 12, 2018, and June 13, 2018, respectively, recommending that the document be considered complete under the applicable standards of the SEQRA regulations 6 NYCRR §617.9(a)(2) and 6 NYCRR §617.9(b) and subject to minor revisions recommended in the memorandums;

NOW THEREFORE BE IT RESOLVED, that after considering the Proposed Project; the Full EAF and DEIS prepared by the Applicant; and the criteria for determining significance in the SEQRA regulations (6 NYCRR §617.7(c)), the Town of Southeast Planning Board finds that the Proposed Project may have a significant impact on the environment based on the following:

1. The Proposed Project involves amendments to the Town of Southeast Zoning Map and Zoning Ordinance;
2. The Proposed Project has the potential to result in significant adverse impacts to community character;
3. Construction of the Proposed Project would require modification to two ridgelines located within the Ridgeline Protection Overlay District;
4. The Proposed Project would result in alteration of, increase or decrease in size of, or encroachment into the New York State Department of Environmental Conservation (NYSDEC) Wetlands LC-18 and LC-28 and their buffers, and 7.81 acres of disturbance to Town of Southeast regulated wetland and stream buffers.
5. The Proposed Project may impact species such as the Red Maple tree – hardwood swamp, the Northern Long-Eared Bat, and Bog Turtle, which are plant and animal species that have been identified as endangered or threatened.
6. The Proposed Project would result in the construction of 57.2 acres of impervious surface for roads, buildings, and other paved surfaces.
7. The Proposed Project may induce ±510 semi-trailer truck trips per day, which has the potential to result in significant impacts to the transportation system.

8. The Proposed Project is a substantial change in use from its present vacant use and is adjacent to an Agricultural District (PUTN001).

9. The Proposed Project is located in or adjacent to an area identified as potentially sensitive for archaeological resources on the New York State Historic Preservation Office archaeological site inventory.

10. Construction would contain more than one phase.

11. The Proposed Project may have a significant impact on energy consumption.

12. The Proposed Project would temporarily exceed existing ambient noise levels during construction.

BE IT FURTHER RESOLVED, that the Planning Board hereby issues a Positive Declaration under SEQRA for the Proposed Project;

BE IT FURTHER RESOLVED, that pursuant to §617.8(c), scoping was not conducted and the Applicant has submitted a DEIS to the Lead Agency;

BE IT FURTHER RESOLVED, that the Planning Board of the Town of Southeast, as Lead Agency, has reviewed the applicable standards of 6 NYCRR §617.9(a)(2) and 6 NYCRR §617.9(b) to evaluate the adequacy of the DEIS for the purposes of commencing public review and hereby determines that the DEIS for the Northeast Interstate Logistics Center project is complete subject to the inclusion of the minor revisions recommended in the letters from its consultants referenced herein; and

BE IT FURTHER RESOLVED, that the Planning Board hereby sets a public hearing to receive public comment on the DEIS, subdivision, and wetland permit applications at 7:30 PM on Monday, July 9, 2018, at the Southeast Town Offices, 1360 Route 22, Brewster, NY, 10509, and written comments are requested and will be accepted by the Planning Board until the close of business on August 3, 2018, or 10 days following the close of the hearing if adjourned to a later date.

UPON ROLL CALL VOTE:

T. LaPerch, Chairman	yes	D. Rush, Vice Chairman	yes
D. Armstrong, Boardmember	yes	E. Cyprus, Boardmember	yes
M. Hecht, Boardmember	absent	E. Larca, Boardmember	yes
J. Gress, Boardmember	yes		

The resolution was passed by a vote of 6 to 0, with 1 absent.

T. LaPerch / vad

T. LaPerch, Chairman
Southeast Planning Board

State Environmental Quality Review
Positive Declaration,
Notice of Completion of Draft Environmental Impact Statement,
and
Notice of SEQR, Subdivision, and Wetland Permit Public Hearings

Lead Agency: Town of Southeast Planning Board **Date:** June 14, 2018

Address: 1 Main Street
Brewster, NY 10509

This Notice is issued pursuant to Article 8 of the New York State Environmental Conservation Law (State Environmental Quality Review Act "SEQRA") and its implementing regulations.

The Town of Southeast Planning Board, as Lead Agency under SEQRA has issued a Positive Declaration for the Northeast Interstate Logistics Center project (the "Proposed Project") requiring the preparation of a Draft Environmental Impact Statement (DEIS). The DEIS has been completed and accepted for the purpose of public review of the Proposed Project as described below. The purpose of the public hearing is to receive public comment on the DEIS, subdivision, and wetland permit applications. The public hearing will be opened at 7:30 PM on Monday, July 9, 2018, at the Southeast Town Offices, 1360 Route 22, Brewster, NY, 10509. Written comments are requested and will be accepted by the Planning Board until the close of business on August 3, 2018, or 10 days following the close of the hearing if adjourned to a later date. Written comments should be addressed to the following Contact Person: Victoria Desidero, Administrative Assistant, Town of Southeast Planning Board, 1 Main Street, Brewster, NY 10509. Phone: 845-279-7736. E-mail: planning@southeast-ny.gov.

Name of Action: Northeast Interstate Logistics Center

SEQR Classification: Type I

Description of Action:

Putnam Seabury Partners, L.P (the "Applicant") has petitioned the Town of Southeast, NY, for an amendment to the Zoning Ordinance and Map of the Town of Southeast, and is requesting a re-subdivision, Site Plan, Conditional Use Permit, and Wetland Permit approval for an approximately 1,125,000 square foot logistics center to be known as the Northeast Interstate Logistics Center on an approximately 328 acre site located at New York State (NYS) Route 312 and Pugsley Road (the "Project Site").

The Project Site, which is currently comprised of 156 tax parcels, is proposed to be re-subdivided into 5 tax parcels. A sixth lot is proposed to be created pursuant to a lot line adjustment, which application shall be heard simultaneously. The proposed Northeast Interstate Logistics Center would include four buildings ranging in size from 173,775 to 366,404 square feet. Warehouse number one would be 261,320 square feet, warehouse number two would be 173,775 square feet, warehouse number three would be 323,076 square feet, and warehouse number four would be 366,404 square feet. The proposed buildings would be located on Lots 1, 2, and 3; Lot 4 would remain vacant except for potable water wells; Lot 5 is proposed to be donated to Putnam County for new access to Tilly Foster Farm and potential related uses; and Lot 6 would be donated to the New York State Department of Transportation to accommodate traffic improvements that would be constructed as part of the Proposed Project.

To facilitate the Proposed Project, the Applicant requests to rezone approximately 39 acres on the west side of Pugsley Road from Rural Commercial (RC) to Office Park 3 (OP-3). The remaining parcels would retain their existing zoning designation. A substantial portion of the Project Site is located within the Ridgeline Protection Overlay District. In addition, the Applicant proposes to add "logistics center" as a "conditional use permit" use in the OP-3 Zoning District, and is proposing criteria for the review of Logistics Center uses.

Location: New York State Route 312 and Pugsley Road in the Town of Southeast, Putnam County. [See attached list of parcels].

Reasons Supporting the Positive Declaration:

After considering the Proposed Project; the Full Environmental Assessment Form and DEIS prepared by the Applicant; and the criteria for determining significance in the SEQRA regulations (6NYCRR §617.7(c)), the Town of Southeast Planning Board finds that the Proposed Project may have a significant impact on the environment based on the following:

1. The Proposed Project involves amendments to the Town of Southeast Zoning Map and Zoning Ordinance;
2. The Proposed Project has the potential to result in significant adverse impacts to community character;
3. Construction of the Proposed Project would require modification to two ridgelines located within the Ridgeline Protection Overlay District;
4. The Proposed Project would result in alteration of, increase or decrease in size of, or encroachment into the New York State Department of Environmental Conservation (NYSDEC) Wetlands LC-18 and LC-28 and their buffers, and 7.81 acres of disturbance to Town of Southeast regulated wetland and stream buffers.
5. The Proposed Project may impact species such as the Red Maple tree – hardwood swamp, the Northern Long-Eared Bat, and Bog Turtle, which are plant and animal species that have been identified as endangered or threatened.
6. The Proposed Project would result in the construction of 57.2 acres of impervious surface for roads, buildings, and other paved surfaces.
7. The Proposed Project may induce ±510 semi-trailer truck trips per day, which has the potential to result in significant impacts to the transportation system.
8. The Proposed Project is a substantial change in use from its present vacant use and is located adjacent to an Agricultural District (PUTN001).
9. The Proposed Project is located in or adjacent to an area identified as potentially sensitive for archaeological resources on the New York State Historic Preservation Office archaeological site inventory.
10. Construction would contain more than one phase.
11. The Proposed Project may have a significant impact on energy consumption.
12. The Proposed Project would temporarily exceed existing ambient noise levels during construction.

Potential Environmental Impacts:

The DEIS analyzes the following areas of potential environmental impacts: Land Use and Zoning; Traffic; Visual Resources; Surface Water and Wetlands; Geology, Soils, and Topography; Groundwater; Vegetation and Wildlife; Fiscal Impact; Community Services; Utilities; Cultural Resources; Noise; Construction; Air Quality; and Hazardous Materials.

A copy of the DEIS and additional information may be obtained from:

Contact Person: Victoria Desidero, Planning Board Secretary

Address: Town of Southeast
1 Main Street
Brewster, NY 10509

Telephone Number: (845) 279-7736

Additional copies for public review are available at:

Town of Southeast Town Clerk, 1360 Route 22, Brewster, NY 10509

Brewster Public Library, 79 Main Street, Brewster, NY 10509

Town of Southeast web-site: www.southeast-ny.gov

A copy of this notice has been sent to:

Lead Agency:

Planning Board, Town of Southeast, 1 Main Street, Brewster, NY 10509

Involved Agencies:

Town of Southeast Town Board, 1360 Route 22, Brewster, NY 10509

Town of Southeast Architectural Review Board, 1360 Route 22, Brewster, NY 10509

Town of Southeast Highway Superintendent, 1360 Route 22, Brewster, NY 10509

Putnam County Department of Health, 4 Geneva Road, Brewster, NY 10509

New York City Department of Environmental Protection, Bureau of Water Supply, 465 Columbus Avenue, Valhalla, New York 10595-1336

New York State Department of Environmental Conservation, 625 Broadway, Room 538, Albany, New York 12233-1750

Regional Director, New York State Department of Environmental Conservation, Region 3, 21 South Putt Corners Road, New Paltz, NY 12561-1696

New York State Department of Transportation, Region 8, SEQR Unit, Traffic Engineering & Safety Division, 4 Burnett Boulevard, Poughkeepsie, NY 12603

New York State Department of Transportation, Main Office, 50 Wolf Road, Albany, NY 12232

Interested Agencies:

Brewster Fire Department, 501 North Main Street, Brewster, NY 10590

Town of Southeast Fire Inspector, 1 Main Street, Brewster, NY 10509

Putnam County Department of Highways & Facilities, 331 Fair Street, Carmel, NY 10512

Putnam County Division of Planning and Development, 841 Fair Street, Carmel, NY 10512

Putnam County Sherriff's Department, 3 County Center, Carmel, NY 10512

Town of Patterson, 1142 Route 311, Patterson, NY 12563

New York State Police, Brewster Barracks, 1672 Route 22, Brewster, NY 10509

United States Army Corps of Engineers, New York District, 26 Federal Plaza, New York, NY 10278

Property owners within 500 feet of the Project Site

Applicant:

Putnam Seabury Partners, L.P., 287 King Street, Chappaqua, NY 10514

DEIS Preparer and Project Engineer:

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC, 120 Bedford Road, Armonk, NY 10504

Environmental Notice Bulletin:

NYS Department of Environmental Conservation, 625 Broadway, 4th Floor, Albany, NY 12233-1750

Exhibit A

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8	45.-1-13	60	45.-3-53	112	45.-3-105
9	45.-3-1	61	45.-3-54	113	45.-3-106
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15	45.-3-7	67	45.-3-60	119	45.-3-112
16	45.-3-8	68	45.-3-61	120	45.-3-113
17	45.-3-9	69	45.-3-62	121	45.-3-114
18	45.-3-10	70	45.-3-63	122	45.-3-115
19	45.-3-11	71	45.-3-64	123	45.-3-116
20	45.-3-12	72	45.-3-65	124	45.-3-117
21	45.-3-13	73	45.-3-66	125	45.-3-118
22	45.-3-14	74	45.-3-67	126	45.-3-119
23	45.-3-15	75	45.-3-68	127	45.-3-120
24	45.-3-16	76	45.-3-69	128	45.-3-121
25	45.-3-17	77	45.-3-70	129	45.-3-122
26	45.-3-18	78	45.-3-71	130	45.-3-123
27	45.-3-19	79	45.-3-72	131	45.-3-124
28	45.-3-20	80	45.-3-73	132	45.-3-125
29	45.-3-21	81	45.-3-74	133	45.-3-126
30	45.-3-22	82	45.-3-75	134	45.-3-127
31	45.-3-23	83	45.-3-76	135	45.-3-128
32	45.-3-24	84	45.-3-77	136	45.-3-129
33	45.-3-25	85	45.-3-78	137	45.-3-130
34	45.-3-26	86	45.-3-79	138	45.-3-131
35	45.-3-27	87	45.-3-80	139	45.-3-132
36	45.-3-28	88	45.-3-81	140	45.-3-133
37	45.-3-29	89	45.-3-82	141	45.-3-134
38	45.-3-30	90	45.-3-83	142	45.-3-135
39	45.-3-32	91	45.-3-84	143	45.-3-136
40	45.-3-33	92	45.-3-85	144	45.-3-137
41	45.-3-34	93	45.-3-86	145	45.-3-138
42	45.-3-35	94	45.-3-87	146	45.-3-139
43	45.-3-36	95	45.-3-88	147	45.-3-140
44	45.-3-37	96	45.-3-89	148	45.-3-141
45	45.-3-38	97	45.-3-90	149	45.-3-142
46	45.-3-39	98	45.-3-91	150	45.-3-143
47	45.-3-40	99	45.-3-92	151	45.-3-144
48	45.-3-41	100	45.-3-93	152	45.-3-145
49	45.-3-42	101	45.-3-94	153	45.-3-146
50	45.-3-43	102	45.-3-95	154	45.-3-147
51	45.-3-44	103	45.-3-96	155	45.-3-148
52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:

(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

APPENDIX 1-2

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

April 23, 2018

Honorable Richard Williams, Sr., Supervisor
Town of Patterson
1142 Route 311
Patterson, New York 12563

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Fields Corner Road/Field Lane Gate

Dear Supervisor Williams:

Thank you again for meeting with us to discuss the proposed Logistics Center. As discussed during our meeting, at your request, we have prepared the attached Figure III.B-1 which illustrates the proposed gate across Fields Corner Road/Field Lane at the Patterson Town line. The gate would be closed year round. A knox lock will be provided for emergency access. Gravel turnarounds are proposed on both the Southeast and Patterson sides of the gate. Appropriate signage will be provided, including advanced signing at Fair Street, advising the public that the Road is closed to through traffic.

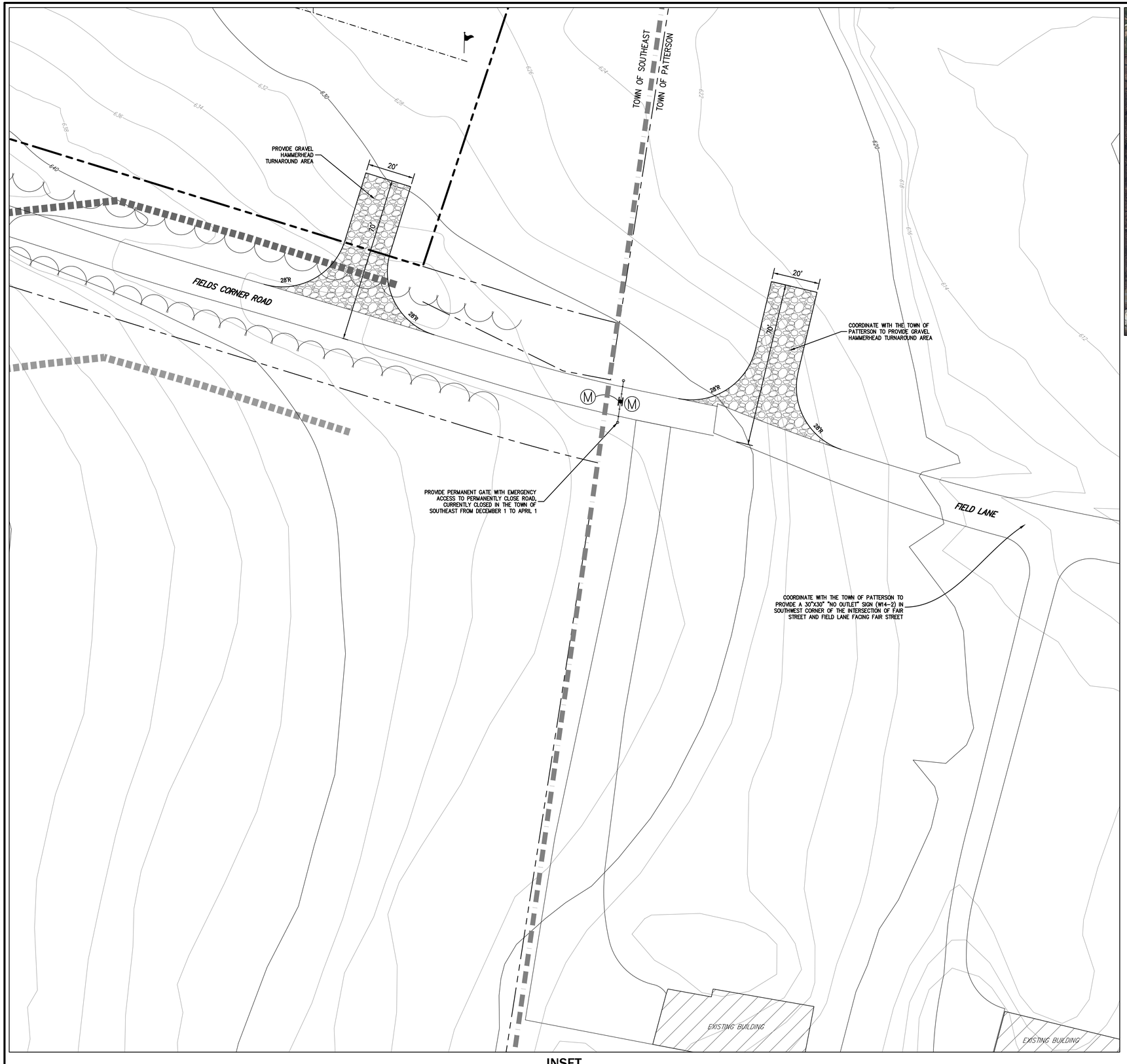
We will coordinate the improvements with your office as the Logistics Center project approvals are being processed. Please let us know if you have any questions or comments regarding the proposed road closure, the figure, or any other aspect of the project.

Sincerely,

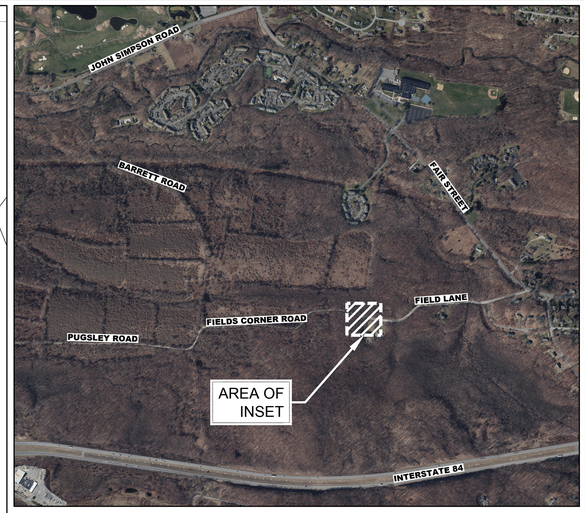
JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Richard J. Pearson, PE, PTOE
Senior Associate Principal

cc: Honorable Tony Hay
Tom LaPerch
Michael Bruen
Ashley Ley
Donald Rossi, Esq.
Daniel M. Richmond, Esq.



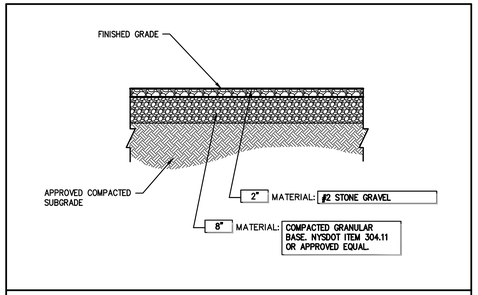
INSET



KEY MAP
SCALE: 1" = 500'

SIGN TABLE

DESIGNATION NUMBER	SIGN	SIZE	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	REGULATORY	REFLECTORIZED
M	ROAD CLOSED	48"X30"	BLACK ON WHITE	ON GATE	–	R11-2	X



GRAVEL PAVEMENT
SCALE: N.T.S.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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.

No.	Revision	Date	By

Previous Editions Obsolete

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

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

JMC

TOWNLINE TURNAROUND PLAN

NORTHEAST INTERSTATE LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

Drawn:	KRM
Approved:	RJP
Scale:	1" = 20'
Date:	04/23/2018
Project No:	14012
14012-LAYOUT	TURNAROUND-DWG TURNAROUND.scr
Drawing No:	III.B-1

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NOT FOR CONSTRUCTION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

February 27, 2018

Eva Szigeti
Evans Associates Environmental Consulting, Inc.
205 Amity Road
Bethany, CT 06524

Re: Northeast Interstate Logistics Center, NYS Route 312 and Pugsley Road
County: Putnam Town/City: Southeast

Dear Ms. Szigeti:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities directly on the project site.

About 4 miles from the project site is a documented winter hibernaculum of **Northern long-eared bat** (*Myotis septentrionalis*, state and federally listed as Threatened). These bats may travel five miles or more from documented locations. The main impact of concern for bats is the cutting or removal of potential roost trees. For information about any permit considerations for your project, contact the Permits staff at the NYSDEC Region 3 Office at dep.r3@dec.ny.gov, (845) 256-3054. For information about potential impacts of your project on this species and how to avoid, minimize, or mitigate any impacts, contact the Region 3 Wildlife staff at Wildlife.R3@dec.ny.gov, (845) 256-3098.

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 resources may be required to fully assess impacts on biological resources.

For information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the Permits staff at the NYSDEC Region 3 Office as described above.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

181

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

May 9, 2018

Sheriff Robert L. Langley, Jr.
Putnam County Sheriff's Department
3 County Center
Carmel, NY 10512

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Request for Information for a Draft Environmental Impact Statement (DEIS)

Dear Sheriff Langley:

We are preparing a Draft Environmental Impact Statement (DEIS) for the development of the previously approved Campus at Field Corners property. For your reference we have attached a Site Location Map, Drawing C-100 "Overall Layout Plan" which depicts the proposed development, and Drawing III.B-1 "Townline Turnaround Plan". The Turnaround Plan depicts a proposed gated permanent closure of Pugsley Road and Fields Corner Road at the Patterson Town line, at the request of the Town of Patterson Supervisor, where the road is currently closed from December 1 through April 1. The gate would have a knox lock which could be opened in the event of an emergency.

The proposed property is to contain four logistics center buildings, similar to warehouses. A logistics center incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional services such as handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

The center is proposed to operate 24/7, with regional access primarily via I-84 at interchange 19, which intersects with NY 312. Pugsley Road provides access to the site from NY 312. It is estimated the project will employ 665 people. On-site security will be provided.

The Town has requested responses to the following questions for the DEIS:

1. Has there been any police, fire, or EMS calls to the site over the past 5 years, in particular the intersection of Route 312 and Pugsley Road, and what are the nature of these calls?
2. Are there any planned or proposed changes to police protection services in the Town?

The Town has requested this information be provided to assess the potential impact of the proposed project on the Sheriff's Department, and we respectfully request your input.

Please feel free to call us should you have any questions. Thank you for your time and assistance.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Robert B. Peake, AICP, Project Manager

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Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

May 9, 2018

New York State Police
Troop K – Zone 2
Brewster Barracks
1672 Route 22
Brewster, NY 10509

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Request for Information for a Draft Environmental Impact Statement (DEIS)

Dear State Police:

We are preparing a Draft Environmental Impact Statement (DEIS) for the development of the previously approved Campus at Field Corners property. For your reference we have attached a Site Location Map, Drawing C-100 "Overall Layout Plan" which depicts the proposed development, and Drawing III.B-1 "Townline Turnaround Plan". The Turnaround Plan depicts a proposed gated permanent closure of Pugsley Road and Fields Corner Road at the Patterson Town line, at the request of the Town of Patterson Supervisor, where the road is currently closed from December 1 through April 1. The gate would have a knox lock which could be opened in the event of an emergency.

The proposed property is to contain four logistics center buildings, similar to warehouses. A logistics center incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional services such as handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

The center is proposed to operate 24/7, with regional access primarily via I-84 at interchange 19, which intersects with NY 312. Pugsley Road provides access to the site from NY 312. It is estimated the project will employ 665 people. On-site security will be provided.

The Town has requested responses to the following questions for the DEIS:

1. Has there been any police, fire, or EMS calls to the site over the past 5 years, in particular the intersection of Route 312 and Pugsley Road, and what are the nature of these calls?
2. Are there any planned or proposed changes to State Police services in the Town?

The Town has requested this information be provided to assess the potential impact of the proposed project on the State Police, and we respectfully request your input.

Please feel free to call us should you have any questions. Thank you for your time and assistance.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Robert B. Peake, AICP, Project Manager

P:\2014\14012\ADMIN\ltState Police 05-09-2018.docx

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

May 9, 2018

Commissioner Ken Clair
Brewster Fire Department
501 North Main Street
Brewster, NY 10509

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Request for Information for a Draft Environmental Impact Statement (DEIS)

Dear Commissioner Clair:

We are preparing a Draft Environmental Impact Statement (DEIS) for the development of the previously approved Campus at Field Corners property. For your reference we have attached a Site Location Map, Drawing C-100 "Overall Layout Plan" which depicts the proposed development, and Drawing III.B-1 "Townline Turnaround Plan". The Turnaround Plan depicts a proposed gated permanent closure of Pugsley Road and Fields Corner Road at the Patterson Town line, at the request of the Town of Patterson Supervisor, where the road is currently closed from December 1 through April 1. The gate would have a knox lock which could be opened in the event of an emergency.

The proposed property is to contain four logistics center buildings, similar to warehouses. A logistics center incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional services such as handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

The center is proposed to operate 24/7, with regional access primarily via I-84 at interchange 19, which intersects with NY 312. Pugsley Road provides access to the site from NY 312. It is estimated the project will employ 665 people. On-site security will be provided.

The Town has requested responses to the following questions for the DEIS:

1. Has there been any police, fire, or EMS calls to the site over the past 5 years, in particular the intersection of Route 312 and Pugsley Road, and what are the nature of these calls?
2. Are there any planned or proposed changes to fire and EMS services in the Town?

The Town has requested this information be provided to assess the potential impact of the proposed project on the Fire Department, and we respectfully request your input.

Please feel free to call us should you have any questions. Thank you for your time and assistance.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Robert B. Peake

Robert B. Peake, AICP, Project Manager

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Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

May 9, 2018

Valerie Henning Piedmonte, Ed.D
Superintendent of Schools
Brewster Central School District
30 Farm to Market Road
Brewster, NY 10509

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Request for Information for a Draft Environmental Impact Statement (DEIS)

Dear Dr. Henning-Piedmonte:

We are preparing a Draft Environmental Impact Statement (DEIS) for the development of the previously approved Campus at Field Corners property. For your reference we have attached a Site Location Map, Drawing C-100 "Overall Layout Plan" which depicts the proposed development, and Drawing III.B-1 "Townline Turnaround Plan". The Turnaround Plan depicts a proposed gated permanent closure of Pugsley Road and Fields Corner Road at the Patterson Town line, at the request of the Town of Patterson Supervisor, where the road is currently closed from December 1 through April 1. The gate would have a knox lock which could be opened in the event of an emergency.

The proposed property is to contain four logistics center buildings, similar to warehouses. A logistics center incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional services such as handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

The center is proposed to operate 24/7, with regional access primarily via I-84 at interchange 19, which intersects with NY 312. Pugsley Road provides access to the site from NY 312. It is estimated the project will employ 665 people. On-site security will be provided. No school children will be generated from this project.

The Town has requested a response to the following question for the DEIS:

- Are there any planned or proposed changes to school services in the Town?

The Town has requested this information be provided to assess the potential impact of the proposed project on the Brewster Central School District, and we respectfully request your input.

Please feel free to call us should you have any questions. Thank you for your time and assistance.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Robert B. Peake, AICP, Project Manager

P:\2014\14012\ADMIN\ltHenning-Piedmonte 05-09-2018.docx

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

May 9, 2018

Ms. Patricia Bohrman
Town of Southeast Recreation Department
1 Main Street
Brewster, NY 10509

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Request for Information for a Draft Environmental Impact Statement (DEIS)

Dear Ms. Bohrman:

We are preparing a Draft Environmental Impact Statement (DEIS) for the development of the previously approved Campus at Field Corners property. For your reference we have attached a Site Location Map, Drawing C-100 "Overall Layout Plan" which depicts the proposed development, and Drawing III.B-1 "Townline Turnaround Plan". The Turnaround Plan depicts a proposed gated permanent closure of Pugsley Road and Fields Corner Road at the Patterson Town line, at the request of the Town of Patterson Supervisor, where the road is currently closed from December 1 through April 1. The gate would have a knox lock which could be opened in the event of an emergency.

The proposed property is to contain four logistics center buildings, similar to warehouses. A logistics center incorporates the traditional storage, assemblage and manufacturing uses, but adds a number of additional services such as handling, shipment, consolidation, repackaging, labeling, assembly, aggregation, transloading, refrigeration, management or other similar activities of nonhazardous goods and materials.

The center is proposed to operate 24/7, with regional access primarily via I-84 at interchange 19, which intersects with NY 312. Pugsley Road provides access to the site from NY 312. It is estimated the project will employ 665 people. On-site security will be provided.

The Town has requested a response to the following question for the DEIS:

- Are there any planned or proposed changes to parks/open space services in the Town?

The Town has requested this information be provided to assess the potential impact of the proposed project on the Recreation Department, and we respectfully request your input.

Please feel free to call us should you have any questions. Thank you for your time and assistance.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Robert B. Peake

Robert B. Peake, AICP, Project Manager

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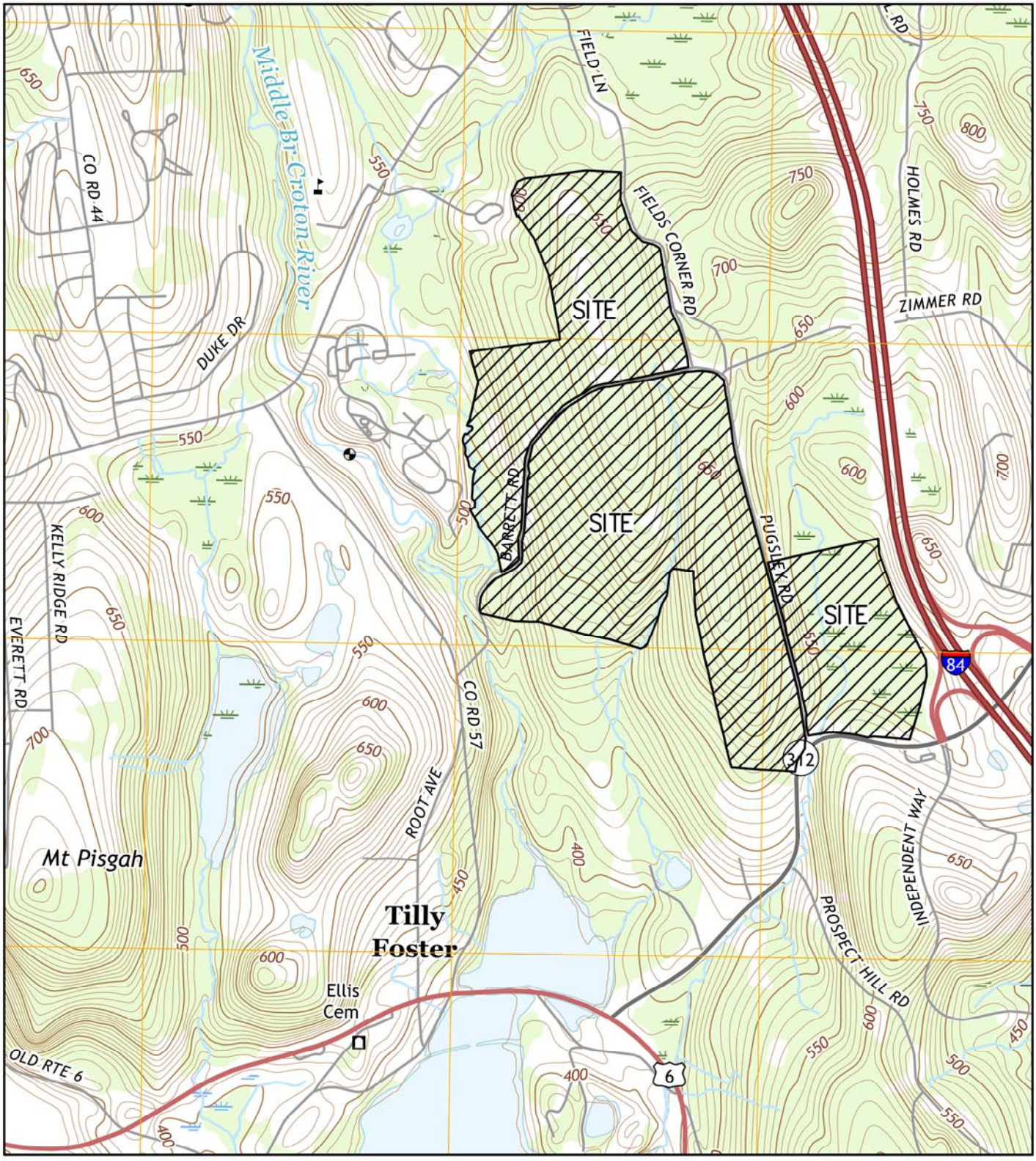

NORTHEAST INTERSTATE LOGISTICS CENTER

NY 312 & PUGSLEY ROAD — TOWN OF SOUTHEAST, NEW YORK

SITE LOCATION MAP

DATE: 11/06/2017 — JMC PROJECT: 14012

FIGURE: II - 1 — SCALE: 1" = 1,500'

120 BEDFORD RD
ARMONK
NY 10504

(914) 273-5225
fax 273-2102

JMCPLLC.COM

JMC

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PARKING AND LOADING TABLE

DESCRIPTION	BUILDING SIZE (S.F.)	ANTICIPATED EMPLOYEES (1) (3) (1 EMPLOYEE / 1,695 S.F.)	TOWN PARKING REQUIREMENT (1 SPACE / 1.5 EMPLOYEE)	PARKING PROVIDED			LOADING DOCKS AND TRAILER SPACES		
				PROPOSED	LANDBANKED	TOTAL (2) PROVIDED (0.67 SPACE / 1,000 S.F.)	LOADING DOCKS	TRAILER PARKING	TOTAL PROVIDED
BUILDING 1	261,320	154	104	104	72	176	39	55	94
BUILDING 2	173,775	103	69	69	48	117	52	23	75
BUILDING 3	323,076	191	128	128	89	217	51	62	113
BUILDING 4	366,404	217	145	145	101	246	70	52	122
TOTAL	1,124,575	665	446 (2)	446	310	756	212	192	404

PARKING AND LOADING TABLE NOTES:

(1) THE ANTICIPATED NUMBER OF EMPLOYEES IS BASED ON THE RATIO OF EMPLOYEES TO SQUARE FEET OF FLOOR AREA PUBLISHED BY ENERGYSTAR.GOV FOR TYPICAL WAREHOUSE SPACE. NEW CONSTRUCTION HIGHLY MECHANIZED WAREHOUSE SPACES HAVE LOWER EMPLOYEE DENSITIES.

(2) THE TOTAL NUMBER OF PARKING SPACES PROVIDED IS CONSISTENT WITH PARKING RATIO FOR STORAGE OR WHOLESALE FACILITIES IN THE URBAN LAND INSTITUTE PUBLICATION, "THE DIMENSIONS OF PARKING, 5TH EDITION".

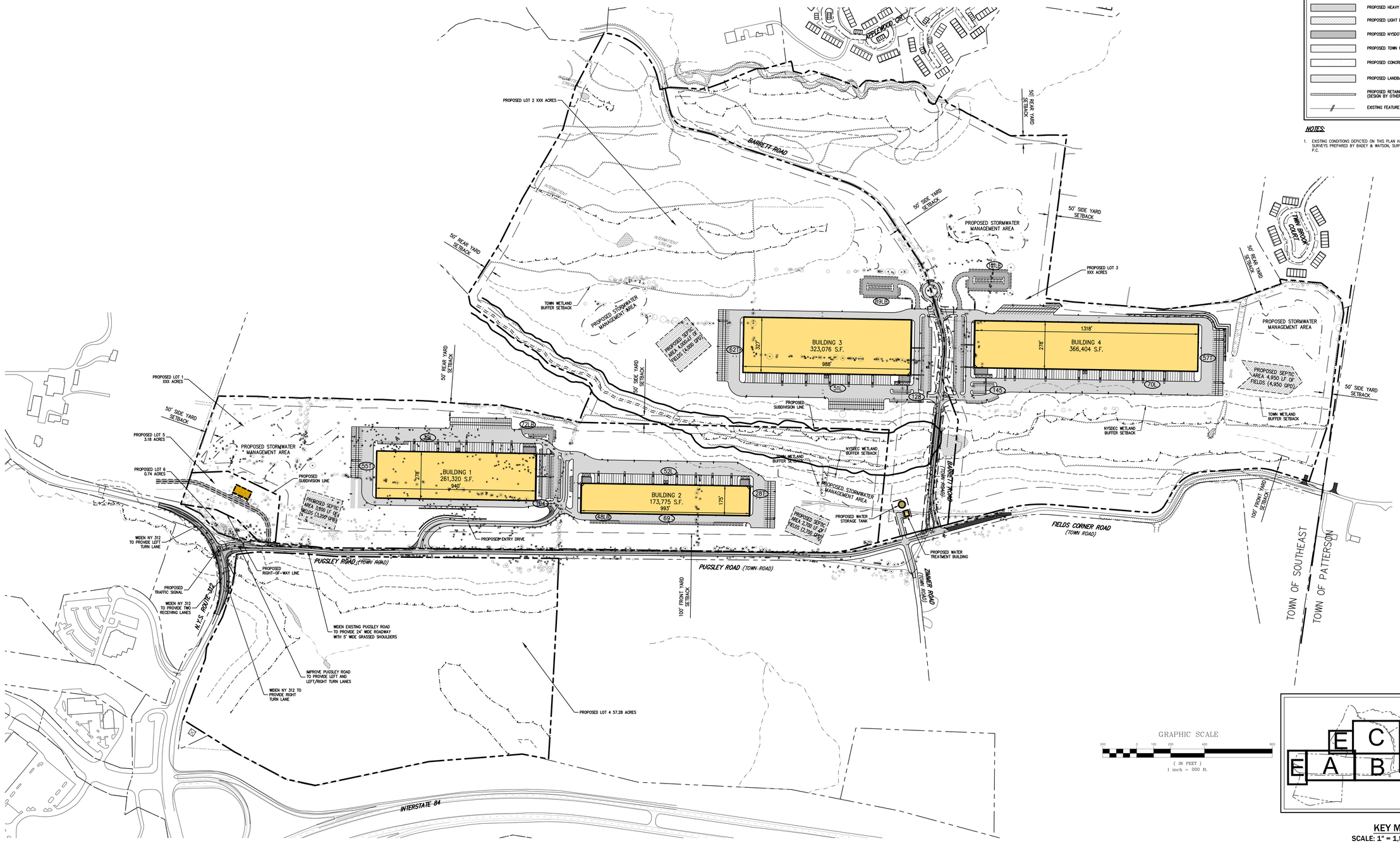
(3) SEPTIC AREAS HAVE BEEN CONSERVATIVELY SIZED FOR THE POTENTIAL HIGHER EMPLOYEE TOTALS:
- BUILDING 1: 264 EMPLOYEES
- BUILDING 2: 176 EMPLOYEES
- BUILDING 3: 326 EMPLOYEES
- BUILDING 4: 369 EMPLOYEES
- TOTAL: 1,135 EMPLOYEES

LEGEND

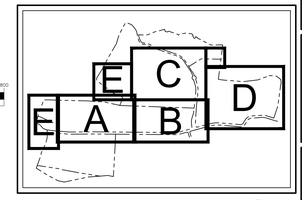
- EXISTING/PROPOSED PROPERTY LINE
- PROPOSED SUBDIVISION LINE
- ADJACENT PROPERTY LINE
- EXISTING BUILDING SETBACK LINE
- EXISTING NYSDEC WETLAND BUFFER
- EXISTING TOWN WETLAND BUFFER
- EXISTING WETLAND LINE
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING STONE WALL
- EXISTING FENCE
- EXISTING TREE LINE
- EXISTING PAINT
- PROPOSED BUILDING LINE
- PROPOSED WATER STORAGE TANK LINE
- POTENTIAL FUTURE PUTNAM COUNTY BUILDING LINE
- PROPOSED CURB/EDGE OF PAVEMENT
- 4T — PROPOSED TRUCK PARKING SPACES
- 6L — PROPOSED TRUCK LOADING SPACES
- 2H — PROPOSED ACCESSIBLE PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
- 5 — PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
- 5LB — PROPOSED PARKING SPACES TO BE "LANDBANKED"
- PROPOSED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY SITE PAVEMENT
- PROPOSED LIGHT DUTY SITE PAVEMENT
- PROPOSED NYSDOT PAVEMENT
- PROPOSED TOWN ROAD PAVEMENT
- PROPOSED CONCRETE APRON
- PROPOSED LANDBANKED PAVEMENT
- PROPOSED RETAINING WALL (DESIGN BY OTHERS)
- EXISTING FEATURE TO BE REMOVED

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEYS PREPARED BY BADEY & WATSON, SURVEYING AND ENGINEERING, P.C.



GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.



KEY MAP
SCALE: 1" = 1,500'

No.	Revision	Date	By
1.	REVISED PER COMMENTS	XX/XX/2018	KRM

Previous Editions Obsolete

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

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

JMC

OVERALL LAYOUT PLAN

NORTHEAST INTERSTATE LOGISTICS CENTER

NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

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.

PROGRESS PLOTTING

Drawing: 14012-LAYOUT
Date: 2018-05-02
Time: 5:25 PM
By:

Drawn:	KRM	Approved:	RJP
Scale:	1" = 200'		
Date:	11/06/2017		
Project No:	14012		
14012-LAYOUT	OVERALL LAY	LAYOUT.dgn	

Drawing No:
C–100

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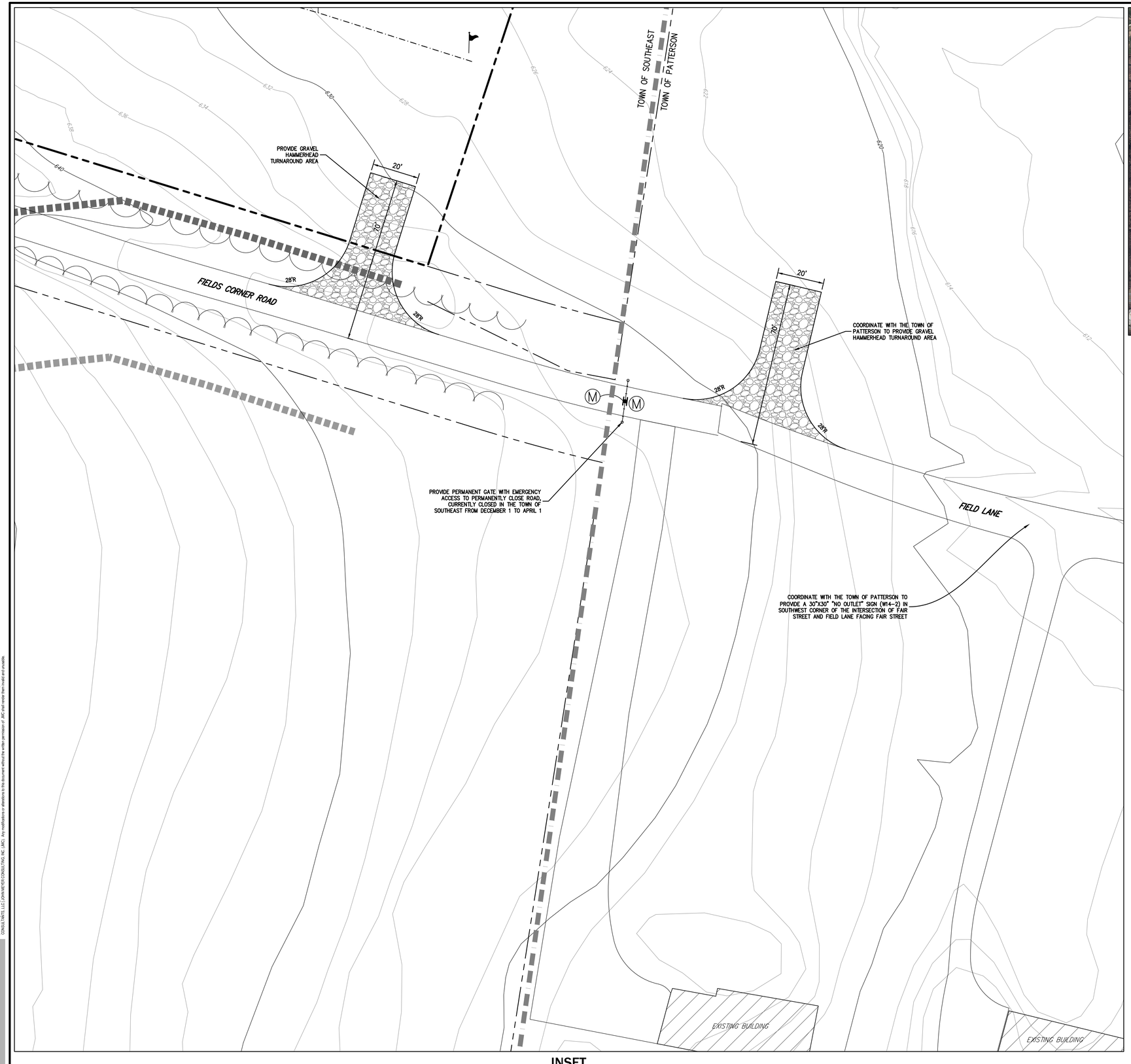
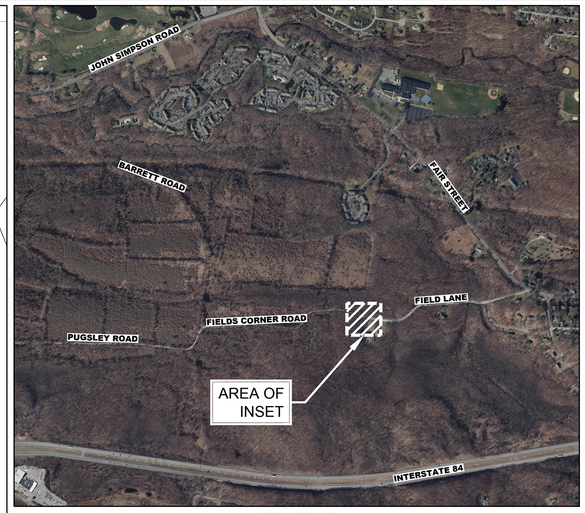


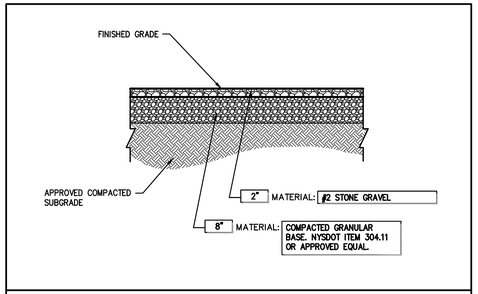
INSET



KEY MAP
SCALE: 1" = 500'

SIGN TABLE

DESIGNATION NUMBER	SIGN	SIZE	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	REGULATORY	REFLECTORIZED
M	ROAD CLOSED	48"X30"	BLACK ON WHITE	ON GATE	–	R11-2	X



GRAVEL PAVEMENT
SCALE: N.T.S.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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No.	Revision	Date	By

Previous Editions Obsolete

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

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

JMC

TOWNLINE TURNAROUND PLAN
NORTHEAST INTERSTATE LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

PROGRESS PLOTTING
Drawing: 14012-LAYOUT
Date: 2018-03-14
Time: 11:24 AM
By:

Drawn: KRM Approved: RJP
Scale: 1" = 20'
Date: XX/XX/2018
Project No: 14012
14012-LAYOUT TURNAROUND-DWG TURNAROUND.scr
Drawing No: III.B-1

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One Main Street
Brewster, N.Y. 10509

Phone: 845.279.3915
Fax: 845.279.3137
E-mail: pbohrman@southeast-ny.gov

TOWN OF SOUTHEAST RECREATION DEPARTMENT

May 15, 2018

JMC Planning Engineering Landscape
Architecture & Land Surveying, PLLC
120 Bedford Road
Armonk, NY 10509

Attn: Robert B. Peake, AICP, Project Manager

RE: JMC Project 14012
Northeast Interstate Logistics Center
NY 312 & Pugsley Road
Town of Southeast, NY

Dear Mr. Peake,

In response for information for a Draft Environment Impact Statement for the above listed project please be advised that the project will have no impact to the Town of Southeast Recreation Department.

Very truly yours,

Patricia Bohrman
Recreation Leader
Town of Southeast Recreation

NYSEG

03/16/2018

Putnam Seabury Partners
590 Madison Ave Ste 100
New York, NY 10022

Re: Security Deposit Request

NYSEG Account Number: 10047397632
Service Notification Number: Gas 10300446592 SN($33,000) Elec 10300446590($13,500)

Dear Putnam Seabury Partners,

Thank you for applying to NYSEG for electric and gas service. Based on the information you provided, NYSEG is requesting a security deposit in the amount of $46,500 for new service. NYSEG will gladly provide utility service to your location once the security deposit and required paperwork have been received.

Your security deposit will earn interest and may be increased or decreased based on your future utility consumption. In place of a cash deposit, you may provide a deposit alternative such as an irrevocable bank letter of credit or a surety bond.

NYSEG will refund your deposit, or part of your deposit, plus interest within 30 days after:

- The date your account is closed
- The date of the first bill after a three year period of timely payments, provided there is no other reason, under Public Service Law, to require a security deposit.
- The first anniversary review, or a subsequent biennial review, shows that the security deposit can be reduced.

Please mail your payment to:

NYSEG Customer Relations Center
ATTN: ESI
PO Box 5240
Binghamton, NY 13902-5240

Be sure to include your Service Notification Number on your check/money order.

If you have questions regarding the security deposit for your new service, please contact our Energy Services Installation department by calling 1-800-572-1111, Monday through Friday from 7:00 am to 4:30 pm. Please press 3 for new construction or upgrades, then press 3 again to speak with an Energy Services representative.

Sincerely,
NYSEG Customer Representative

NYSEG

03/16/2018

Putnam Seabury Partners
590 Madison Ave Ste 100
New York, NY 10022

Re: Security Deposit Request

NYSEG Account Number: 10047397657
Service Notification Number: Gas 10300446626 SN($22,000) Elec 10300446625 SN($9,000)

Dear Putnam Seabury Partners,

Thank you for applying to NYSEG for electric and gas service. Based on the information you provided, NYSEG is requesting a security deposit in the amount of $31,000 for new service. NYSEG will gladly provide utility service to your location once the security deposit and required paperwork have been received.

Your security deposit will earn interest and may be increased or decreased based on your future utility consumption. In place of a cash deposit, you may provide a deposit alternative such as an irrevocable bank letter of credit or a surety bond.

NYSEG will refund your deposit, or part of your deposit, plus interest within 30 days after:

- The date your account is closed
- The date of the first bill after a three year period of timely payments, provided there is no other reason, under Public Service Law, to require a security deposit.
- The first anniversary review, or a subsequent biennial review, shows that the security deposit can be reduced.

Please mail your payment to:

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Binghamton, NY 13902-5240

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If you have questions regarding the security deposit for your new service, please contact our Energy Services Installation department by calling 1-800-572-1111, Monday through Friday from 7:00 am to 4:30 pm. Please press 3 for new construction or upgrades, then press 3 again to speak with an Energy Services representative.

Sincerely,
NYSEG Customer Representative

NYSEG

03/16/2018

Putnam Seabury Partners
590 Madison Ave Ste 100
New York, NY 10022

Re: Security Deposit Request

NYSEG Account Number: 10047397640
Service Notification Number: Gas 10300446593 SN($33,000) Elec 1030446592($13,500)

Dear Putnam Seabury Partners,

Thank you for applying to NYSEG for electric and gas service. Based on the information you provided, NYSEG is requesting a security deposit in the amount of $46,500 for new service. NYSEG will gladly provide utility service to your location once the security deposit and required paperwork have been received.

Your security deposit will earn interest and may be increased or decreased based on your future utility consumption. In place of a cash deposit, you may provide a deposit alternative such as an irrevocable bank letter of credit or a surety bond.

NYSEG will refund your deposit, or part of your deposit, plus interest within 30 days after:

- The date your account is closed
- The date of the first bill after a three year period of timely payments, provided there is no other reason, under Public Service Law, to require a security deposit.
- The first anniversary review, or a subsequent biennial review, shows that the security deposit can be reduced.

Please mail your payment to:

NYSEG Customer Relations Center
ATTN: ESI
PO Box 5240
Binghamton, NY 13902-5240

Be sure to include your Service Notification Number on your check/money order.

If you have questions regarding the security deposit for your new service, please contact our Energy Services Installation department by calling 1-800-572-1111, Monday through Friday from 7:00 am to 4:30 pm. Please press 3 for new construction or upgrades, then press 3 again to speak with an Energy Services representative.

Sincerely,
NYSEG Customer Representative

NYSEG

03/16/2018

Putnam Seabury Partners
590 Madison Ave Ste 100
New York, NY 10022

Re: Security Deposit Request

NYSEG Account Number: 10047397665
Service Notification Number: Gas 10300446628 SN($22,000) Elec 10300446627 SN($9,000)

Dear Putnam Seabury Partners,

Thank you for applying to NYSEG for electric and gas service. Based on the information you provided, NYSEG is requesting a security deposit in the amount of $31,000 for new service. NYSEG will gladly provide utility service to your location once the security deposit and required paperwork have been received.

Your security deposit will earn interest and may be increased or decreased based on your future utility consumption. In place of a cash deposit, you may provide a deposit alternative such as an irrevocable bank letter of credit or a surety bond.

NYSEG will refund your deposit, or part of your deposit, plus interest within 30 days after:

- The date your account is closed
- The date of the first bill after a three year period of timely payments, provided there is no other reason, under Public Service Law, to require a security deposit.
- The first anniversary review, or a subsequent biennial review, shows that the security deposit can be reduced.

Please mail your payment to:

NYSEG Customer Relations Center
ATTN: ESI
PO Box 5240
Binghamton, NY 13902-5240

Be sure to include your Service Notification Number on your check/money order.

If you have questions regarding the security deposit for your new service, please contact our Energy Services Installation department by calling 1-800-572-1111, Monday through Friday from 7:00 am to 4:30 pm. Please press 3 for new construction or upgrades, then press 3 again to speak with an Energy Services representative.

Sincerely,
NYSEG Customer Representative

CONSULTING ENGINEERS

Principals
Patrick F. Lynch, P.E.
Steven Abbattista, P.E.
James F. Dolan, P.E.
John Torre, P.E.
Jill Walsh, P.E.

MEMORANDUM

To: Richard J. Pearson, P.E. – JMC

From: Ryan D. Lucia, P.E. / Robert Spina, P.E. - OLA

Date: June 18, 2018

Project: Northeast Interstate Logistics Center

Subject: MEP Load Projections

OLA was commissioned to determine the utility requirements for a new four-building warehouse complex in the Town of Southeast. The four buildings total approximately 1.124 million square feet of space. A new service installation request has been submitted to NYSEG for both natural gas and electric services. The following is a source summary of our electric and gas preliminary load projections for the project, based on historical data for typical warehouse usage.

This memorandum is a supplement to our previously submitted memorandum, dated February 28, 2018 that describes the project in further detail.

NATURAL GAS SERVICE:

The total gas load input is approximately 184,000 CFH. This quantity includes the natural gas heating load and domestic water heating load for the four warehouse buildings as well as an allowance for future expansion of a fifth building. The following design criteria was used:

- Domestic water heaters - assume (1) per building
- Assume (8) showers
- Assume two sets of toilet rooms, one on each level of the office area, each with 4 lavatories
- Assume (1) pantry
- Assume (1) service sink
- 60 gallon heater at 120,000 btu/hr x 5 buildings
- Total gas load output (BTU/HR) = 146,775,360
- Total gas load input @ 80% (btu/hr) (RTUs 80% EFF typically) = 183,469,200
- Total gas load input (MBH) (CFH) = 183,469

ELECTRICAL SERVICE:

The total estimated electric load at the site is 2,343kW. This is based on a watts per square foot (w/sq-ft) calculation, given the space size and programmed usage. The following design criteria was used:

- LED lighting throughout in accordance with International Energy Conservation Code (IECC)
- Receptacles in office and warehouse spaces
- Electric powered air conditioning in each of the (4) warehouses:
  - BLDG 1 – 65,300 sq-ft of cooling at 3.8 w/sq-ft
  - BLDG 2 – 43,500 sq-ft of cooling at 3.8 w/sq-ft
  - BLDG 3 – 80,800 sq-ft of cooling at 3.8 w/sq-ft
  - BLDG 4 – 91,600 sq-ft of cooling at 3.8 w/sq-ft
- LED site lighting per JMC design
  - BLDG 1 – 9 kVA

Westchester
50 Broadway
Hawthorne, NY
10532
914.747.2800

New York City
12 East 49 Street
11th Floor
New York, NY
10017
646.849.4110

olace.com

  - BLDG 2 – 7 kVA
  - BLDG 3 – 7.5 kVA
  - BLDG 4 – 10 kVA
- (8) exhaust fans in each warehouse
- (1) electric domestic water heater in each warehouse
- (4) 5 HP well pumps
- (1) 50HP fire Pump
- (8) 5 HP sewer pumps
- Total estimated demand load for the new site is 8130 amps. Estimated demand load breakout by building (total of four new) is as follows:
  - BLDG 1: 1800 amps
  - BLDG 2: 1250 amps
  - BLDG 3: 2200 amps
  - BLDG 4: 2500 amps

If you have any questions regarding these load projections please don't hesitate to contact our office.

cc: J. Torre – OLA
J. Fierro – OLA
David Lombardi – JMC

I:\Projects\PSP\NPSP0001.00\Docs\Northeast Interstate Logisctices_MEP Load Projections - 2018-06-18.docx

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

March 14, 2018

Ms. Faline Schneiderman
Vice President
Historical Perspectives, Inc.
P.O. Box 529
Westport, CT 06881

Re: USACE
Northeast Interstate Logistics Center
Town of Southeast, Putnam County, NY
17PR08153

Dear Ms. Schneiderman:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources.

SHPO has reviewed *Phase IA Archaeological Assessment, Northeast Interstate Logistics Center, Southeast, Putnam County, New York* (Historical Perspectives, February 2018). Based on the information provided, as well as the steep slopes, elevated terrain, and lack of positive results during the previous survey, our office continues to recommend that the proposed project will have **No Effect** on historic properties listed or eligible for listing on the National Register of Historic Places. Should the project design change, we recommend further consultation regarding this project.

If you have any questions, please don't hesitate to contact me.

Sincerely,

Philip A. Perazio, Historic Preservation Program Analyst - Archaeology Unit
Phone: 518-268-2175
e-mail: philip.perazio@parks.ny.gov via e-mail only

cc: Barbara Magee and Cece Saunders, HPI
Brendan Newell, USACE
Harvey Schulweis, Putnam Seabury Partners

Robert B. Peake, AICP

From: Ashley Ley <aley@akrf.com>
Sent: Friday, May 11, 2018 9:17 AM
To: Robert B. Peake, AICP
Subject: Fwd: Northeast Logistics Center, Southeast, NY (17PR08153)

---------- Forwarded message ----------
From: **Elizabeth Meade** <emeade@akrf.com>
Date: Tue, Mar 27, 2018 at 1:10 PM
Subject: Northeast Logistics Center, Southeast, NY (17PR08153)
To: "Perazio, Philip (PEB)" <Philip.Perazio@parks.ny.gov>
Cc: vdesidero@southeast-ny.gov, Ashley Ley <aley@akrf.com>, tlaperch@hlcommercialgroup.com, dmrichmond@zarin-steinmetz.com

Mr. Perazio--

AKRF serves as the Town Planner for the Town of Southeast, Putnam County, NY and is advising the Town on the SEQRA review of the Northeast Logistics Center project currently before the Planning Board (SHPO project number 17PR08153). As part of our review, we were provided with a copy of the Phase 1A Archaeological Documentary Study of the project site prepared by HPI in February 2018 and SHPO's recent comment letter (dated March 14, 2018) issued in response to the submission of the Phase 1A. We have also been provided with a previous Phase 1B report summarizing testing on a different portion of the project site completed by HPI in March 2005.

The Phase 1A study prepared by HPI in 2018 recommends Phase 1B testing within the project site. SHPO's comment letter dated March 14, 2018 concludes that the topographical features of the project site and the absence of archaeological resources identified on the adjacent property as described in the 2005 Phase 1B report, the project site is not sensitive and therefore the proposed project will have no effect on cultural resources. As part of our SEQRA review, we are requesting that you confirm that it is SHPO's opinion that the testing recommended by the 2018 Phase 1A study is not necessary and will not be a requirement pursuant to the Section 106 process.

Thank you for your assistance with this matter and please do not hesitate to contact me with any questions.

Best,

Elizabeth

Elizabeth D. Meade, RPA
Senior Technical Director
Registered Professional Archaeologist 16353
.....
AKRF, INC.
Environmental, Planning, and Engineering Consultants
440 Park Ave South , 7th Floor | New York , NY 10016
P) 646.388.9811
www.akrf.com

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

April 04, 2018

Ms. Elizabeth Meade
AKRF, Inc.
440 Park Ave South, 7th Floor
New York, NY 10016

Re: USACE
Northeast Interstate Logistics Center
Town of Southeast, Putnam County, NY
17PR08153

Dear Ms. Meade:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources.

This letter is in response to a request from AKRF (Meade, 27 March 2018) that SHPO confirm its previous recommendation (Perazio, 14 March 2018) that no further archaeological investigation is needed of the proposed project area. Based on the Phase IA report and other available information, in our opinion, the project's Area of Potential Effects (APE) has a low potential to contain historic properties (architectural and archaeological sites) that are eligible for listing on the National Register of Historic Places. Therefore, it is our recommendation that no further investigation should be required for this project.

If you have any questions, please don't hesitate to contact me.

Sincerely,

Philip A. Perazio, Historic Preservation Program Analyst - Archaeology Unit
Phone: 518-268-2175
e-mail: philip.perazio@parks.ny.gov via e-mail only

cc: Brendan Newell, USACE
Harvey Schulweis, Putnam Seabury Partners, LP

APPENDIX D-2

Evans Associates
Environmental Consulting, Incorporated

WETLAND DELINEATION REPORT

DATE: **September 14, 2017**

PROPERTY: **Putnam Seabury Partners, LP Site:**
Northeast Interstate Logistics Center
(formerly Campus at Field Corners)
Pugsley Road and NYS Route 312
Town of Southeast, Putnam County

REPORT BY: **Evans Associates Environmental Consulting, Inc.**

INTRODUCTION

Wetlands boundaries on the above-captioned property were reviewed on June 8, 2015, July 25, and August 24, 2017 by a Professional Wetland Scientist and a Certified Professional Soil Scientist from Evans Associates Environmental Consulting, Inc. (Evans Associates). Information regarding the wetland field delineation and review is presented below, followed by discussions of the existing site conditions, and the wetland regulatory jurisdictions. Photos of the wetlands are included at the end of this report.

WETLAND FIELD DELINEATION AND REVIEW

The site is commonly known as Campus at Field Corners, and a previous New York State (NYS) Department of Environmental Conservation (DEC) wetland validation, by Mr. Doug Gaugler, expired in 2007. These previously-delineated wetland lines were re-staked by the surveyors (Badey & Watson Surveying & Engineering, P.C.) in May and June of this year (2017). The on-site wetland boundaries closest to the proposed project were reviewed in the field by Evans Associates personnel in accordance with Chapter 78, Freshwater Wetlands, of the Southeast Town Code, DEC Wetland Regulations under the NYS Freshwater Wetlands Act (Article 24 of the NYS Environmental Conservation Law), and the technical criteria in the updated 1987 Army Corps of Engineers (ACOE) Wetland Delineation Manual (TR-Y-87-1). The delineation appears to be substantially accurate as staked in the field (and as depicted on the Badey & Watson wetland survey, including the 2004 DEC Wetland Validation Plan), and the wetland numbers previously depicted on the DEC Wetland Map (Wetlands 4, 5, and 6) will be used for this discussion.

205 Amity Road
Bethany, CT 06524
Tel: 203.393.0690
Fax: 203.393.0196

EXISTING SITE CONDITIONS

The above-captioned property is located to the northwest of Interstate 84 and NYS 312, and comprises several parcels totaling approximately 327acres. The parcels encompass or are adjacent to Barrett Road and Pugsley Road (the portion of Pugsley Road that is north of Barrett Road may be referred to as Fields Corner Road). The surrounding areas contain a variety of land uses. In addition to interstate, state, and local roads, surroundings also include farms, residential homes or complexes, shopping centers/office buildings, a golf course, the Middle Branch Croton River, as well as undeveloped, mainly forested parcels.

The uplands on the site were originally maintained as agricultural pastures, after use as a dairy farm, but are now extremely overgrown with invasive trees, shrubs, and vines (i.e. autumn and Russian olive trees, multiflora rose shrubs, and mile-a-minute vines, among others). No buildings remain on the property. The uplands in the area proposed for development (approximately 236 acres of the site) comprise drumlin land features, with a wetland corridor located in the valley between the drumlins. In addition, a wetland encompasses the majority of the southeastern-most parcel, north of Route 312, east of Pugsley Road, and west of Interstate 84 (located off site).

WETLANDS

Portions of DEC Freshwater Wetlands LC-18 and LC-28 are located on the subject property. The on-site portions of DEC wetland LC-18 comprise two wetlands in the center of the property (Wetland 4 and Wetland 5), west of Pugsley Road and Fields Corner Road; the two wetlands are connected by a culvert beneath Barrett Road. The on-site portion of DEC Freshwater Wetland LC-28 (Wetland 6) is located in the southeast corner of the site, east of Pugsley Road, and north of Route 312. The watercourses associated with these three wetlands are Class C. See Wetland Survey prepared by Badey & Watson Surveying & Engineering, P.C.

Wetland 4

Wetland 4 is the portion of DEC Freshwater Wetland LC-18 that is located south of Barrett Road. This wetland is connected to Wetland 5 (north of Barrett Road); flow enters Wetland 4 from the north via a culvert beneath Barrett Road. The north end of this wetland is dominated by an common reed *(Phragmites australis)*, followed (to the south of the reeds) by a hummocky, seepy section of wetland. Both areas are small. Beyond (to the south of) these areas, the wetland mainly comprises a streamside wetland corridor. Although the stream was not flowing on the day of the site visit, drainage patterns indicated that flow likely does occur through the wetland at least somewhat regularly during wetter seasons. The stream, when flowing, originates just north of the farm pond in Wetland 5 (discussed below), flows through Wetland 4, and exits the site as a narrow, steeply sloping stream channel lacking streamside wetland. The stream is tributary to the Middle Branch Reservoir.

This wetland corridor contains mainly deciduous wooded swamp as its dominant cover type and contains emergent meadow as a non-dominant cover type. The wetland is relatively narrow, and encroachment by nuisance and invasive/exotic species has

occurred and lowered the quality of this wetland in some areas. Vegetation in the wetland includes red maple *(Acer rubrum)*, American elm *(Ulmus americana)*, and green ash *(Fraxinus pennsylvanica)* trees and saplings, multiflora rose *(Rosa multiflora)*, silky dogwood *(Cornus amomum)*, Japanese barberry *(Berberis thunbergii)*, and spicebush *(Lindera benzoin)* shrubs, Asiatic bittersweet *(Celastrus orbiculata)* and poison ivy *(Toxicodendron radicans)* vines, along with skunk cabbage *(Symplocarpus foetidus)*, tussock sedge *(Carex stricta)*, jewelweed *(Impatiens capensis)*, clearweed *(Pilea pumila)*, goldenrod *(Solidago sp.)*, cinnamon fern *(Osmunda cinnamomea)*, Japanese stilt-grass *(Microstegium vimineum)*, sensitive fern *(Onoclea sensibilis)*, and garlic mustard *(Alliaria petiolata)*. Additional vegetation in the wetter portions of the north end of the wetland includes common reed, arrow-leaf tearthumb *(Polygonum sagittatum)*, blue vervain *(Verbena hastata)*, and goldenrod *(Solidago sp.)*.

Soils in Wetland 4 are primarily Sun loam, a very poorly drained, deep to bedrock mineral soil that is formed in glacial till. Sun loam is found in depressions and along drainageways. Some areas of Wetland 4 contained a mucky surface layer. The primary sources of hydrologic input are interception of the underlying water table and interception of perched, subsurface, lateral drainage from the surrounding drumlin landscape features. Evidence of wetland hydrology includes flowing water (not present on the day of the site visit), drainage channels, and the presence of seeps.

Wetland 5

Wetland 5 is the portion of DEC Freshwater Wetland LC-18 that is located north of Barrett Road. This wetland is connected to Wetland 4 (south of Barrett Road); flow from the south end of Wetland 5 enters Wetland 4 from the north via a culvert beneath Barrett Road. Wetland 5 is a wetland corridor that is associated with a braided pattern of discontinuous, intermittent stream channels. Some stream flow was noted within some portions of the north end of Wetland 5 on the day of the site visit (in July). Part of Wetland 5 drains to the north, and part to the south. The break between the north flow and the south flow occurs several hundred feet to the north of the small farm pond that is located immediately north of Barrett Road. The central portion of this wetland is level and has some microtopography.

The vegetative cover type is predominantly deciduous wooded swamp. Vegetation in the wetland includes red maple, American elm, and green ash trees and saplings, Japanese barberry, high-bush blueberry *(Vaccinium corymbosum)*, spicebush, and some willow *(Salix sp.)* shrubs, Virginia creeper *(Parthenocissus quinquefolia)*, dewberry *(Rubus sp.)*, and poison ivy vines, along with skunk cabbage, tussock sedge (small), Japanese stilt-grass, jewelweed, false nettle *(Boehmeria cylindrica)*, horsetails *(Equisetum sp.)*, cinnamon fern, sensitive fern, hog peanut *(Amphicarpaea bracteata)*, royal fern *(Osmunda regalis)*, bedstraw *(Galium sp.)*, Jack-in-the-pulpit *(Arisaema triphyllum)*, and lady fern *(Athyrium filix-femina)*. Purple loosestrife *(Lythrum salicaria)* and common reed are found in the ponded areas of the wetland.

Soils in Wetland 5 are primarily Sun loam, described above, in the wetter portions of the wetland, along with some Ridgebury loam along some of the relatively dry wetland

fringe areas on the west edge of the wetland. Ridgebury soils are similar to Sun soils, except they are poorly drained and are characterized by a dense substratum which is not present in Sun loam.

The primary sources of hydrologic input are interception of the underlying water table and interception of perched, subsurface, lateral drainage from the surrounding drumlin landscape features. Evidence of wetland hydrology includes flowing or ponded water, drainage channels, and the presence of seeps.

Wetland 6

Wetland 6 is a large, depressional, semi-closed basin located northwest of the intersection of I-84 and Route 312, and to the east of Pugsley Road. Only the southwest portion of the wetland is located on site, encompassing much of the subject-site parcel northeast of the Pugsley Road entrance from Route 312. Wetland 6 is fed, off site, from intermittent streamflow from the north and is drained by a perennial watercourse at its southern end. This watercourse is culverted beneath Route 312 and eventually becomes tributary to the Middle Branch Reservoir.

The vegetative cover types are dominated by marsh with deciduous wooded swamp along the eastern wetland perimeter. Shrub swamp vegetative cover is interspersed within the interior portions of the wetland. The variety of cover types supports a high degree of vertical structure or height class diversity of vegetation. Wetland 6 is characterized by persistent seasonal ponding in interior portions. The majority of Wetland 6 contains emergent meadow habitat, and vegetation includes jewelweed, halberd-leaf tearthumb *(Polygonum arifolium)*, arrow-leaf tearthumb, skunk cabbage, tussock sedge, manna grass *(Glyceria sp.)*, cinnamon fern, sensitive fern, false nettle *(Boehmeria cylindrica)*, and sedges *(Carex sp.)*. Some of this emergent habitat has been encroached upon by shrubs and red maple saplings.

The topography within the wetland is relatively flat, with steeply-sloping uplands between Pugsley Road and the wetland boundary. The wetland has hummocky microtopography, especially in interior portions. The edge habitat located in the transitional areas between deciduous wooded swamp and marsh or shrub swamp cover types is characterized by a high degree of vertical structure or height class diversity of vegetation. The portions of this wetland which contain organic soils and open cover types (marsh and shrub swamp) are unique on the site and are the most functionally-valuable wetlands on the site.

Soils within the interior portions of the wetland are Catden muck and Natchaug muck (formerly Carlisle muck and Palms muck). These soils are very poorly drained and are derived from partially decomposed organic matter. The organic horizons are typically 30-80" over a loamy mineral horizon. Soils within the southwest portion of the wetland are Ridgebury loam in transition between the upland soils surrounding the wetland and the organic soils within the wetter, interior portions of the wetland. The southwest edge of the wetland (coinciding with the area of Ridgebury soils) is less unique and less valuable, with regard to soils and cover types, than the interior portions of the wetland.

UPLANDS

The majority of the uplands on the site were maintained as agricultural pastures, after use as a dairy farm (pre-1985), but have been unmaintained for at least the last 10 years. The majority of the uplands on the site are now very overgrown with invasive trees, shrubs, and vines. Movement within the uplands is extremely limited through the dense vegetation, which includes dense autumn and Russian olive trees and shrubs, multiflora rose shrubs, and mile-a-minute vines. No buildings remain on the property. The uplands in the area proposed for development contain drumlins (smooth, elongated hills that were formed in dense glacial till). The site contains a network of stone walls within the uplands and wetlands.

The dominant vegetation in the previously-cleared uplands includes autumn olive *(Elaeagnus umbellata)* and Russian olive *(Elaeagnus angustifolia)* trees and shrubs, multiflora rose shrubs, along with mile-a-minute *(Persicaria perfoliata)*, Asiatic bittersweet, and grape *(Vitis sp.)* vines. Other upland vegetation includes some mature trees in-between the former fields: sugar maple *(Acer saccharum)*, red maple, shag-bark hickory *(Carya ovata)*, and oak *(Quercus sp.)*; Tartarian honeysuckle *(Lonicera tatarica)*, and Japanese barberry shrubs, poison ivy *(Toxicodendron radicans)* and Virginia creeper *(Parthenocissus quinquefolia)* vines, along with garlic mustard *(Alliaria petiolata)*, milkweed *(Asclepias sp.)*, and goldenrod.

Soils in the uplands comprise mainly Paxton and Woodbridge fine sandy loams in the areas proposed for development. Paxton soil is well drained and is found on hilltops and hillsides. Woodbridge soil is moderately well drained and is found on hillsides adjacent to the better-drained Paxton soil. Both of these soils are formed in lodgment till and are moderately deep to a dense layer.

WETLAND REGULATORY JURISDICTIONS

Town of Southeast Wetland Regulations

The Town of Southeast regulates wetlands in accordance with Chapter 78: Freshwater Wetlands of the Town Code. In addition to regulating wetlands, the Town also regulates wetland buffers that vary between 100 and 200 feet from the wetland based on the hydrologic soil group (HSG) of the adjacent upland soil type. The upland soils on site (Paxton and Woodbridge loams) has an HSG of C in the upper layers. Soils with an HSG of C have a 166-foot buffer extending off of the adjacent wetland. The wetlands delineated on site, and their 166-foot buffer are regulated by the Town.

New York State Department of Environmental Conservation Wetland Regulations

The DEC regulates wetlands in accordance with the New York State Freshwater Wetlands Act (Article 24 of the New York State Environmental Conservation Law). The DEC regulates wetlands that are 12.4 acres in size or greater, primarily based on vegetation, that are shown on, or are connected to wetlands shown on, the DEC Freshwater Wetland maps. In addition to regulating wetlands, the DEC also regulates 100-foot Adjacent Areas around the wetlands. Wetlands 4, 5, and 6 are part of DEC-regulated Freshwater Wetlands LC-18

and LC-28. Therefore, Wetlands 4, 5, and 6, and their 100-foot Adjacent Area, are regulated by the DEC.

Federal Army Corps of Engineers Wetland Regulations

The United States ACOE is the federal agency that regulates wetlands under the Clean Water Act. The ACOE regulates wetlands based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology as defined in the 1987 ACOE Wetland Delineation Manual (TR-Y-87-1) as modified by the 2012 Regional Supplement for the Northcentral and Northeast Region (TR-12-1). The ACOE regulates wetlands that are associated with hydrologic features that are connected to navigable waters. There is no wetland buffer regulated under federal jurisdiction. The wetlands delineated on site drain off site to the Middle Branch Reservoir, which flows to the Hudson River. Since the wetlands on site drain to navigable waters, the ACOE have regulatory jurisdiction over these wetlands.

New York City Watershed Regulations (NYC Department of Environmental Protection)

The property is part of the East Branch Croton River Basin, which is part of the New York City Watershed. Therefore, the property is subject to regulation by the New York City Department of Environmental Protection Watershed Regulations.

PHOTOS OF WETLANDS AND UPLANDS

Wetland 4 (DEC Wetland LC-18) – Emergent portion of wetland just south of Barrett Road

Watercourse exiting Wetland 4 (DEC Wetland LC-18), facing north (upstream)

Wetland 4 (DEC Wetland LC-18) wooded portion just south of emergent portion near north end

Wetland 4 (DEC Wetland LC-18), central portion

Wetland 5 (DEC Wetland LC-18), pond just north of Barrett Road

Wetland 5 (DEC Wetland LC-18), intermittent watercourse at north end

Wetland 5 (DEC Wetland LC-18), level portion (both photos)

Wetland 6 (DEC Wetland LC-28), emergent vegetation with Red maple sapling swamp on left and upland forest on right, facing south

Wetland 6 (DEC Wetland LC-28), hummocky vegetation in red maple sapling swamp

Outflow from Wetland 6 (DEC Wetland LC-28) – culvert beneath Route 312, facing south

Wetland 6 (DEC Wetland LC-28) – south end: just north of culvert beneath Route 312

APPENDIX E-1

SESI
CONSULTING
ENGINEERS

Geotechnical
Foundations
Land Planning
Geo-Structural
Environmental
Water Resources

Principals:

Steven P. Byszewski, PE, PP
Anthony Castillo, PE
Fuad Dahan, PhD, PE, LSRP
Roger Hendrickson
John M. Nederfield, PE
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Kenneth Quazza, PE
Michael St. Pierre, PE

April 11th, 2018 ***via email:*** HSchulweis@nianticpartners.com

Harvey Schulweis
Putnam Seabury Partners, LP
287 King Street
Chappaqua, NY 10514

RE: Draft Geotechnical Investigation and Report
Proposed Northeast Interstate Logistics Center
Town of Southeast, New York
SESI Project No. 9999

Dear Mr.Schulweis:

In accordance with our Professional Services Agreement dated December 7, 2017, we have completed our geotechnical investigation for the above referenced project. This report contains a description of our investigation, an evaluation of the subsurface soil and groundwater characteristics, and presents recommendations for general site preparation procedures and foundation design criteria for the proposed construction.

DRAFT

Enclosed are three (3) copies of the report.

If you have any questions, please call.

Sincerely,

SESI CONSULTING ENGINEERS D.P.C.

Michael St. Pierre, P.E.
Vice President

Encl: Draft Geotechnical Investigation Report Dated April 11, 2018
CC: DLombardi@jmcpllc.com
Rcordone@jmcpllc.com

DRAFT GEOTECHNICAL INVESTIGATION REPORT

FOR

Proposed Northeast Interstate Logistics Center
Route 312 and Pugsley Road
Town of Southeast, Putnam County, New York

Prepared For:

Putnam Seabury Partners, LP
287 King Street
Chappaqua, NY, 10514

DRAFT

Prepared By:
SESI CONSULTING ENGINEERS D.P.C.
12A Maple Avenue
Pine Brook, NJ 07058

Project No.: 9999

DATE:
April 11, 2018

Robert L. Rains III, EIT

Michael St. Pierre, P.E.
N.Y. Lic. No. 80271

INTRODUCTION AND PROPOSED CONSTRUCTION

We have completed our geotechnical investigation for the proposed Northeast Interstate Logistics Center in Southeast, Putnam County, New York. The site is located west of Pugsley Road and south of New York State Route 312. The project site is currently wooded with occasional tracked trails, boulders walls, and wetlands located in the approximate middle of the site running north to south, in the west, and in the east beyond Pugsley Road. The site is bounded Pugsley Road and Fields Corner Road to the east and by a wooded area beyond; to the south by Route 312 and Barrett Road; to the west by Barrett Road and residential buildings beyond; to the north by Barrett Road and residential buildings beyond. The previous site use consisted of agricultural fields and are currently overgrown with dense low-lying vegetation and trees.

We have reviewed the *Overall Grading Plan* and *Grading Plan 'A'* through *Grading Plan 'E'* plans prepared by JMC Planning, Engineering, Landscape Architecture, and Land Surveying, PLIC, dated November 6, 2017. We understand that the proposed construction will consist of constructing four warehouse buildings with footprint areas of 261,320 sf (Building 1), 173,775 sf (Building 2), 323,076 sf (Building 3), and 366,404 sf (Building 4) with associated parking, loading and roadway areas. Additionally, the development will include seven (7) proposed stormwater management areas, four (4) septic fields, and several large multi-tiered retaining walls.

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Topographically, the *Overall Grading Plan* and *Grading Plan 'A'* through *Grading Plan 'E'* plans prepared by JMC Planning, Engineering, Landscape Architecture, and Land Surveying, PLIC, dated November 6, 2017, indicate that the proposed building locations are located in moderately sloped areas, with steep slopes towards the east and west. In the southern portion of the site, grades vary from elevation 672± in the northwestern portion of Building-1 and slope downward to the east towards Pugsley Road at elevation 600± and to the west at elevation 600±. In the northern portion of the site, site grades vary from elevation 690± in the southern portion of Building-4 and slope downward to elevation 600± in the east, to elevation 530± in the southwest, and to 600± in the northwest.

Based on the grading plans, the proposed finished floor elevations are el. 659.50 for Building-1, el. 657.50 for Building-2, and el. +672.50 for Building-3 and Building-4. Based on the existing and proposed grades provided, it is anticipated cuts up to 17± feet and fills up to 22.5± will be required to reach finished floor elevation. Similar cuts and fills will be required to reach proposed grades in the parking/roadway areas.

Detailed structural loading criteria were not provided to us at this time; however, we have assumed typical column and wall loads for this type of structure. Typical floor loads for the warehouse are anticipated to be on the order of 750 psf.

Once final site and grading plans, and structural loading are available, we should be provided an opportunity to review them to confirm that our recommendations remain valid.

FIELD INVESTIGATION

Our engineering study consisted of a site reconnaissance, a review of existing soils and geologic data, and a field investigation consisting of observing seventy-three (73) test-pits and twenty-six (26) borings. Fifteen (15) borings and four (4) test pits were performed within the vicinity of the proposed buildings, eleven (11) borings along Pugsley road, thirty-two

(32) test pits within the proposed septic fields, and forty-one (41) test pits within the vicinity of the proposed stormwater management areas.

Soil samples suitable for identification purposes were extracted from the test pits at variable depths. All soil samples were taken to our soils laboratory for classification and appropriate geotechnical testing.

The borings were drilled within the four proposed building footprints to depths of 12 to 22.5-feet below existing grade with an ATV drill-rig. The four (4) building area test pits were advanced to depths ranging from 9.9 to 10.3± feet below the existing ground surface with a track-excavator at accessible locations within the footprint of Building-4 and Building-1. The stormwater and septic test pits were advanced to depths ranging from 5.5 to 12±' and 8 to 10.5±', respectively. Ground surface elevations at the exploration locations were provided from survey data provided by others.

The approximate locations of the borings are shown on the Test Pit and Boring Location Plan included as *Figure 1*. Individual test pit logs and boring logs, which describe the materials encountered, are attached.

Soil samples suitable for identification purposes were extracted from the borings at closely-spaced intervals in accordance with the Standard Penetration Test (ASTM D1586-11). For this test, a standard split-spoon sampler (2 inches outside diameter, one and three-eighths inches inside diameter) is driven into the soil by a 140-pound weight falling 30 inches. After discounting the initial six inches of penetration due to possible disturbance of the material resulting from the drilling operation, the number of blows required to advance the sampler a distance of 12 inches are recorded and designated as the standard penetration resistance or "N" value. The "N" value is an indication of the relative compactness of the soil in-situ.

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Laboratory testing on samples collected from the borings consisted of six (6) mechanical grain size analyses, one (1) Atterburg Limit test, one (1) CBR test, and two (2) percent passing No. 200 sieve analyses. The results of the mechanical grain size analyses are presented on the individual boring logs and is attached in graphical form. A key to soil terminology is attached.

All fieldwork was performed under the full time technical observation of an engineer from SESI Consulting Engineers D.P.C. SESI located survey stakes, staked by others, for the test pits and borings in the field, maintained continuous logs of the explorations as work proceeded and coordinated the soil sampling operations in order to develop the required subsurface information.

SESI previously completed a Preliminary Subsurface Investigation report dated October 7, 1987. The investigation consisted of advancing eight (8) soil borings using hollow-stem augers and excavating fifty-two (52) test pits using a rubber-tired backhoe.

GENERALIZED SUBSURFACE CONDITIONS

Geologically, the site soils are mapped as alluvial materials composed of stratified material deposited during the Quaternary period. The upper 4 to 8 feet generally consist of silty soils and overlie coarser, stratified material consisting of intermixed sand and gravel. The percentage of gravel generally increases with depth. The bedrock is generally encountered at depths greater than 10 feet.

The onsite soils are in general agreement with the geological mapping in the areas investigated for this study. The following subsurface conditions were encountered in order of increasing depth:

Surficial Materials: Topsoil was encountered in all building borings and test pits. The building area test pits and borings encountered a layer of topsoil with thicknesses ranging from 4 to 8± inches. The septic and storm area test pits encountered 3 to 12±" and 2 to 18±" of topsoil respectively. Approximately 4 to 8± inches of gravel subbase with varied amounts of silt and sand was encountered in the roadway borings.

Natural Soils: Beneath the topsoil and asphalt, the natural soils encountered in both the test pits and borings primarily consisted of light brown clayey silt to sand and clayey silt with trace amounts of gravel with occasional cobbles. Cobbles and boulders were encountered periodically throughout the test pits and borings and increased in frequency with depth.

Based on the bucket resistance during excavation of the test pits and the blow counts from the borings, the granular soils are typically in a medium dense condition and the fine-grained soils are typically in a medium stiff to hard condition.

Bedrock: Bedrock was not encountered to the depths explored.

Groundwater: Groundwater was encountered in test pits TP-54, TP-56 and TP-57, ranging from 4 to 10± feet below existing grade. Borings SB-5, SB-21, SB-24, and Test Pits TP-17, TP-55, and STP- 21 did not encounter groundwater during the short period of time the holes were left open. The Building and roadway borings encountered groundwater at depths ranging from 5 to 15± feet below existing grade. The septic and stormwater area test pits encountered groundwater at depths ranging from 2 to 9±' and 20-inches to 10±' below existing grade, respectively. Test Pits TP-10 through 12 were left open for a 24-hour period and standing water was recorded to be 3 to 13-inches below existing grade. It is probable that the groundwater may be perched within the upper fine grained materials after heavy precipitation events. Fluctuations in the groundwater should be anticipated based on the time of year and amount of recent precipitation; however, it is not anticipated to encounter groundwater during the proposed development. Mottling was observed in most of the test pits ranging from 6-inches to 5-feet below existing grade. Though mottling was observed often, due to the high silt content of the existing soils, the mottled soils may have occurred from surface infiltration.

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Pavement Cores: Borings SB-16, 18 thru 20, and SB-23 1-inch thick asphalt. Due to the poor condition of the asphalt, the asphalt would break-up during drilling. No asphalt cores were obtained. All roadway borings encountered a 4 to 8-inch thick layer of gravel subbase with varied amounts of sand and silt.

EVALUATION AND RECOMMENDATIONS

General

From a soils and foundation support standpoint, the existing subsurface conditions can be considered good with respect to providing satisfactory support of the planned buildings and roadways. The natural soils encountered below the topsoil are suitable for support of the anticipated building loads on conventional spread/strip foundations with a slab-on-grade. The primary negative aspects of the site are the high silt/clay content of the existing natural soils making them highly moisture sensitive and the relatively high groundwater in some areas. Groundwater will likely be encountered within the deeper building, roadway, and utility excavations. No organic materials (other than the surface topsoil) or uncontrolled fills

were encountered during the investigation. If any uncontrolled fill is encountered, it should be removed and replaced.

SITE PREPARATION PROCEDURES

General

The site preparation procedures should consist of clearing the trees, stripping the surface vegetation, topsoil and uncontrolled fill (if encountered) from within the proposed building areas and then cutting and filling the site to grade. The existing site soils can be reused as a structural fill; however, these soils possess a high silt/clay content and will rut and weave when over optimum moisture content. Therefore, we strongly recommend that these soils be kept a minimum of 2 feet below the building slab subgrade. In order to reuse these materials, it may be necessary to treat the soils with lime/cement to achieve the required moisture contents and densities.

Prior to placing any fill material in areas requiring fill to achieve the proposed subgrade elevation, the entire area should be proofrolled with a large vibratory roller (minimum 10-ton static weight) under the observation of a qualified geotechnical engineer. The proofrolling operation should consist of making a minimum of 4 complete coverages of the area. Any soft areas disclosed during the proofrolling should be excavated to stable material and backfilled with suitable material in compacted lifts to achieve a minimum of 92 percent and an average of greater than 95 percent of Modified Proctor density (ASTM D 1557). The compaction/proofrolling operations should be inspected by a qualified soils engineer. After completion of the proofrolling operations, the construction of a controlled compacted fill may commence.

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The inorganic cut soils beneath the topsoil, may be used as structural fill; however, the majority of these materials possess a high silt/clay content and are moisture sensitive, they cannot be worked or compacted when significantly over optimum water content and, once wet, will require a long period of time to dry. The ease with which soil fills can be constructed on this site will, to a degree, depend on the time of year in which construction takes place and the construction procedures utilized by the earthwork contractor. Wetting or drying of the fill soils may be required prior to their reuse. The moisture sensitive soils can also be treated with lime/cement in order to achieve the required moisture contents and densities.

Much of the site contains boulder walls used as a boundary line during prior use. These boulders could be used for deep area fills and should be placed as thinly as possible with granular materials tracked between the boulders, with the use of a large dozer, in order to eliminate void space between boulders. Alternatively, the boulders encountered during excavation or from the existing boundary walls may be crushed for use beneath the proposed building slabs or foundations. Shotrock/boulder fills should be limited to areas which will not require future access for utilities, foundations, and/or structures etc.

The fill should be placed in maximum 12-inch thick lifts, with each layer compacted to the required density using a large vibratory roller (minimum 10-ton static weight). Building area fills should be compacted to a minimum of 92 percent and an average of greater than 95 percent of the Modified Proctor density (ASTM D 1557).

Areas, which will not have any foundations or other structural loads, may be compacted to a minimum of 90 percent of the maximum Modified Proctor density (ASTM D 1557).

The fill materials may be obtained from on-site sources or from offsite borrow. Offsite borrow material, if required, should have a maximum particle size of 6 inches and the maximum amount of fines (percentage passing a No. 200 mesh sieve) should be 15% to help facilitate construction during wet weather. The "fines" should be non-plastic.

Backfill in confined areas such as utility trenches and foundations within load bearing or paved areas should be placed in maximum 6-inch thick layers and compacted to a minimum of 95 percent of Modified Proctor density.

As previously indicated, the majority of the subsurface soils encountered contained significant percentages of silt/clay and will readily soften during wet weather and from construction activity. Wetting or drying of the fill material should be accomplished as necessary to achieve the required density. The subgrade should be graded to drain and tight-rolled at the end of the day, particularly if wet weather is anticipated. In addition, stormwater runoff should be diverted away from any open excavations.

If stormwater seepage is encountered during construction, gravel filled sumps with pumps should be installed below the subgrade elevation to allow for dewatering of the excavation.

Slopes and Excavations

All temporary excavations greater than 4 feet in depth should have the sides sloped back or be appropriately sheeted and braced in accordance with all applicable codes.

Permanent soil cut and fill slopes should be limited to a maximum of 2 horizontal to 1 vertical for slopes up to 15 feet high and 2.5 horizontal to 1 vertical for slopes greater than 15 feet high and be evaluated by a qualified geotechnical engineer.

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All excavations should be performed in accordance with OSHA requirements, including but not limited to, temporary shoring, trench boxes and benching and be evaluated by a qualified Geotechnical Engineer.

Utility Lines

The site soils will provide suitable support for utility lines. Cobbles greater than 3 inches in diameter should be removed from the utility line subgrade or a minimum 4-inch thick sand layer placed beneath the utility lines. If utility lines fall within soft soils, the excavation should be extended an additional 12 inches and replaced with ¾-inch clean crushed stone or clean sand and gravel.

Backfill material placed around utility lines to 6 inches above the utility line should have a maximum particle size of 1.5 inches. Backfill of utility trenches that fall within load-bearing areas should be placed in maximum 6-inch thick lifts and compacted to the same density requirements as in the building/parking areas.

FOUNDATION DESIGN CRITERIA

After the site preparation procedures described above are completed, conventional spread/strip footings and a slab-on-grade floor system may be constructed within the natural inorganic soils/compacted structural fill and may be designed for a maximum net allowable soil bearing pressure of 5,000 psf (2.5 tsf). It should be noted that the allowable bearing capacity is higher than is allowable by IBC 2015 and should be approved by the local building department. Regardless of the loads, the minimum plan dimension of isolated footings should be 36 inches and the minimum width of continuous footings should be 24 inches.

Exterior footings and those footings potentially exposed to frost action should be founded a minimum of 4.0 feet below adjacent exterior grade or as required by the local building code. Interior footings within heated building areas may be founded at conventional depths below the slab provided they are placed on the natural soils or controlled compacted fill.

Should the bottom of a footing excavation become softened during construction, the soft material should be excavated and replaced with clean ¾-inch crushed stone. It may be prudent to over-excavate at all footing locations and place a minimum of 6 inches of ¾-inch clean crushed stone. The stone will provide a stable working mat and a medium through which to pump stormwater runoff. If water is encountered, it should be controlled locally with gravel filled sumps.

The floor slab may be designed using a subgrade modulus of 175 pci, assuming that 6 inches of Item 4 or recycled concrete with a maximum particle size of 1.5 inches and a maximum percent passing the No. 200 mesh sieve of 12 percent is placed beneath the floor slab.

After satisfactory completion of the outlined building area preparation procedures, footings and floor slabs founded on the compacted structural fill/natural soils should have post-construction total settlements of less than 1-inch and maximum differential settlements in a 30-foot span of less than ½ inch.

All retaining walls including foundation walls should be provided with positive drainage behind the wall to preclude hydrostatic pressures from developing or be designed for hydrostatic pressures.

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A summary of soil design parameters is provided in the attached Table 1.

Seismic Design

The site soils have been classified as Site Class D for seismic design purposes in accordance with the 2015 International Building Code.

Based on a structural occupancy/risk category of I/II/III and information provided by the USGS: U.S. Seismic Design Maps, the following seismic design criteria should be used for this project:

Mapped Spectral Response Acceleration for Short Periods	SS = 0.222g
Mapped Spectral Response Acceleration for 1-Second Period	S1 = 0.068g
Site Coefficient	Fa = 1.60
Site Coefficient	Fv = 2.40
Spectral Response for short periods	SMS = 0.355g
Spectral Response for 1 second period	SM1 = 0.163g
Design Spectral Response Acceleration for Short Periods	SDS = 0.237g
Design Spectral Response Accelerations for 1-Second Period	SD1 = 0.108g

Retaining Walls

Several large, multi-tiered retaining walls will be required in order to attain the final site grades. The retaining wall leveling coarse subgrade should be excavated to a dense and stable subgrade and proofrolled with a vibratory roller under full-time engineering observation. The retaining wall foundation and backfill material should be placed in accordance with the design specifications. Retaining wall backfill should consist of a free-

draining granular material with less than 15 percent non-plastic fines. The maximum particle size for the retaining wall backfill should be 3 inches or as specified by the design engineer. Retaining wall backfill should be placed in maximum 8-inch lifts and compacted with hand-operated compactors to achieve 95 percent of the Modified Proctor density (ASTM D1557). The proposed retaining walls should be designed by a licensed Professional Engineer. It should be noted that the majority of the on-site soils will not be able to be used within the reinforced zone of the walls due to the high silt/clay content.

All retaining walls should be provided with positive drainage behind the wall to preclude hydrostatic pressures from developing.

PAVEMENT AREAS

After stripping the surface topsoil, the parking lot/roadway area subgrade should be proofrolled using a loaded tandem dump truck or a large vibratory roller (minimum 10-ton static weight). Based on the proposed roadway and parking grades, large cuts and fills, up to approximately 20± feet will be required to reach final grades. The proofrolling should consist of making 4 complete coverages of the area. If any soft areas are encountered during the proofrolling, they should be excavated to stable material and replaced with a controlled compacted fill. The thickness of individual lifts of soil fill should be limited to 12 inches. The compaction criteria for fills in the roadway areas may consist of 92 percent, except in the uppermost 2 feet where 95 percent should be achieved to provide for good pavement support. Visual observations and in-place field density tests should be made to determine the adequacy of the compaction. The proofrolling should be inspected by a qualified geotechnical engineer prior to placing any compacted fill.

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Upon completion of the stripping/excavation/proofrolling operations, the fill required to attain finished subgrade elevation should be placed in lifts and compacted with the same or similar compactor as used for the proofrolling. The fill materials may be obtained from the existing inorganic onsite soils or from offsite borrow.

It should be noted that the soils are moisture sensitive and possess a high silt/clay content and will rut and weave under construction equipment when they become over optimum moisture content. Therefore, we recommend that these soils be kept a minimum of 2 feet below the pavement subgrade. These soils could also be treated with lime/cement to achieve the required moisture contents and densities.

If offsite borrow material is required, it should have a maximum particle size of 6 inches and the maximum amount of fines (percentages passing a No. 200 mesh sieve) should be 15% to help facilitate construction during wet weather. The "fines" should be non-plastic.

The fill should be compacted using a large vibratory roller (minimum 10-ton static weight) to achieve a minimum dry density of 92 percent and an average density of greater than 95 percent of Modified Proctor density as determined from laboratory test ASTM D 1557.

We have not received CBR testing results at this time however, we estimate that the subgrade soils will have a CBR value (California Bearing Ratio) on the order of 5 to 10 percent due to the relatively high quantity of clayey silt. A representative of SESI should inspect the pavement subgrade prior to the placement of the pavement section in order to determine if it is in accordance with our estimated design criteria. The subgrade soils should be compacted at ±2 percent of optimum moisture to 95 percent of Modified Proctor density (ASTM D 1557).

Wetting or drying of the fill material should be accomplished as necessary to achieve the required density.

TESTING REQUIREMENTS

During the placement of all fill, visual observations and in place density tests should be performed to determine the adequacy of the fill. Density testing should be done in accordance with the following minimum frequency requirements, or as determined by the geotechnical engineer:

Building Areas: Minimum of 4 tests per 12-inch lift; spacing not to exceed 50 feet between test locations.

Parking/Roadway Areas: Minimum of 3 tests per 12-inch lift; spacing not to exceed 100 feet between test locations.

Minimum density requirements are outlined in the previous sections of this report.

INSPECTION

The recommendations presented in the previous sections of this report are based on the assumption that the site preparation procedures will be done under engineering inspection by a representative of SESI Consulting Engineers D.P.C. We should inspect the proofrolling operations, the over-excavation (if required), the placement of the compacted fill, and the bottom of the footing excavations prior to the placement of concrete and/or stone. Visual observations and in-place density testing should be done throughout fill construction to determine that the work is done in accordance with our recommendations.

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LIMITATIONS

The subsurface investigation performed identifies the subsurface conditions only at the locations of the explorations and at the depths where the samples were taken. SESI Consulting Engineers reviews the published geologic data and the field and laboratory data and uses their professional judgment and experience to render an opinion on the subsurface conditions throughout the site. Because the actual subsurface conditions may differ, we recommend that SESI be retained to provide construction inspection in order to minimize the risks associated with unanticipated conditions.

This report should not be used:

1. When the nature of the proposed building is changed;
2. When the size or configuration of the proposed building is altered;
3. When the location or orientation of the proposed building is modified;
4. When there is a change in ownership; or
5. For application to an adjacent or any other site.

SESI shall not accept any responsibility for problems, which may occur if SESI is not consulted when there are changes to the factors considered in this report's development.

The soil logs should not be separated from the Engineering Report in order to minimize the possibility of soil log misinterpretation.

DISCLAIMER

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DRAFT

TABLE I

SUMMARY OF SOIL DESIGN PARAMETERS

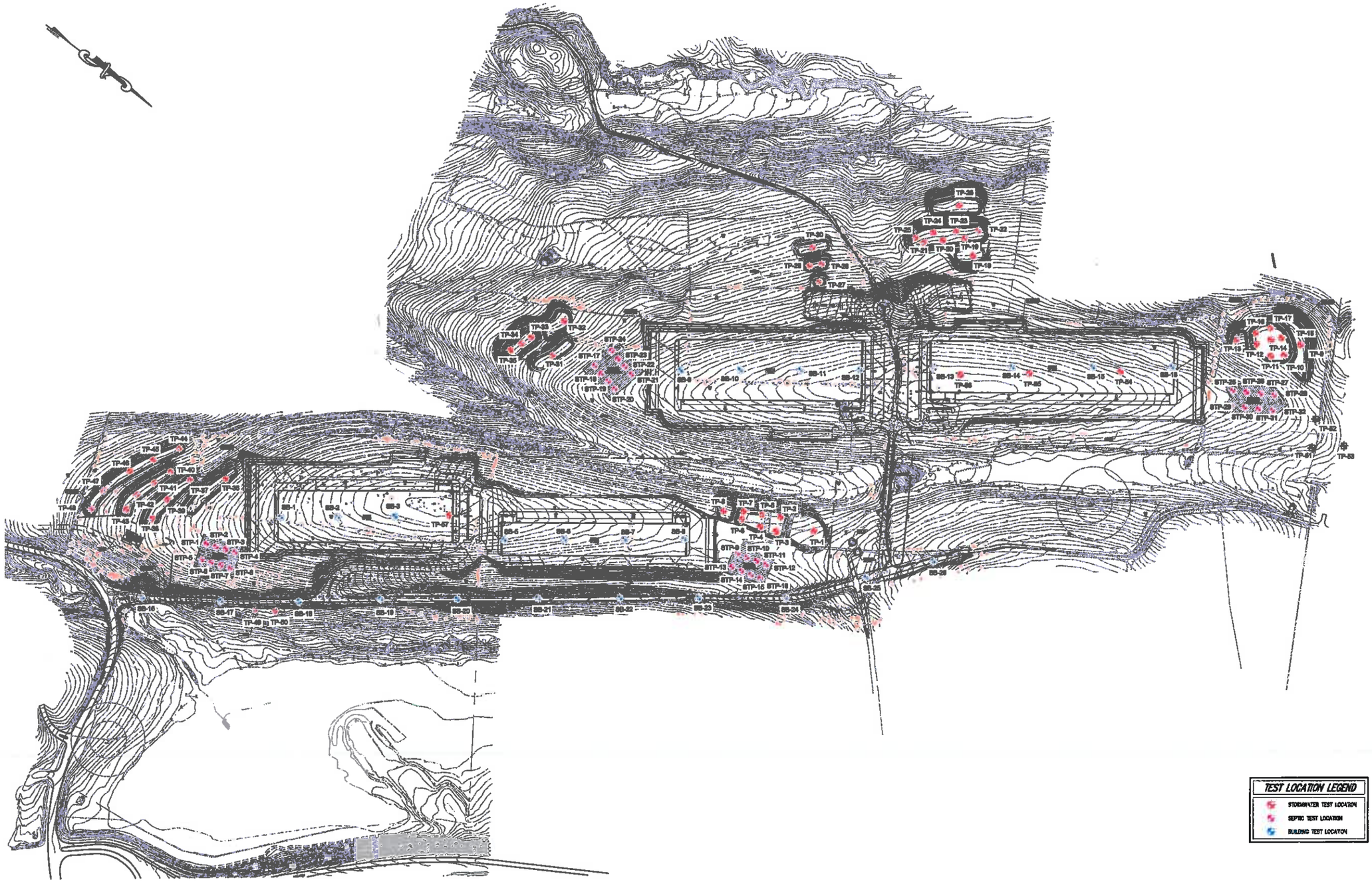
PARAMETER	VALUE
1. Allowable Bearing Capacity (net)	5,000 psf (2.5 tsf)
2. Total Unit Weight	125 pcf
3. Angle of Internal Friction -	32 degrees
a. Backfill against Structures	
4. Earth Pressure Coefficient (See Note 1)	
5. Active Earth Pressure (Ka)	0.31
6. Earth Pressure @ Rest (Ko)	0.47
7. Passive Earth Pressure (Kp)	3.25
8. Coefficient of Sliding (concrete over soil)	0.45
9. Subgrade Modulus for Floor Slab Design	
a. Granular Fill	175 pci
10. CBR (California Bearing Ratio)	5% - 10% (Estimated)
11. Slopes (above groundwater)	
Maximum Cut Slope in Soil	2.5 H:1V
Maximum Fill Slope in Soil	2.5 H:1V
12. Seismic Design Criteria- Site Class	D
13. Minimum Footing Depth (exterior footings)	4.0 feet

DRAFT

Notes:

1.) A drainage medium should be installed along all retaining walls to avoid hydrostatic pressures from developing.

2.) Compaction equipment used within 5± feet of permanent walls should not weigh more than 5,000 pounds.



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REFERENCE
SITE INFORMATION AND SOIL TESTS TAKEN FROM "SOIL TEST LOCATION PLAN" PREPARED BY JMC SITE DEVOLOPMENT CONSULTANTS, LLC. DATED 02/08/2018, REV. 2/28/2018.

NOTE:
THIS PLAN IS FOR LOCATING SOIL TESTS ONLY.
OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

SESI
CONSULTING ENGINEERS D.P.C.
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9080

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

dwg by: YY
chk by: BB
scale: N.T.S.
date: 3/14/18

PROPOSED NORTHEAST INTERSTATE LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

drawing title:
BORING AND TEST PIT LOCATION PLAN

job no. 9999
drawing no.
FIG-1

1 of 1

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-1
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	650.0'
BORING BY: GBI	DATE STARTED: 3/23/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/23/2018	0 Hr. 8½ Date 3/23/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	8"	0		2	3			5	8" Topsoil	
				2			2	1			
	S-2	14"	2		5	7			15	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel,	
				4			8	7		with occasional Cobbles	
5											
	S-3	20"	5		11	8			20	Same...	
				7			12	9			
	S-4	12"	7		8	14			31	Same...	
				9			17	20			
10											
	S-5	20"	10		9	10			27	Same...	
				12			17	20			
15											
	S-6	20"	15		28	38			81	Same...	
				17			44	39			
20											
	S-7	NR	20		29	53			93	No Recovery	
				22			40	40			
										BORING COMPLETED AT 22± FEET	
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 2

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-2
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	663.0'
BORING BY: GBI	DATE STARTED: 3/23/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/23/2018	0 Hr. 10'± Date 3/23/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	8"	0		2	2			4	Topsoil	
				2			2	6			
	S-2	12"	2		10	14			64	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			50/3"	-		Gravel, with occasional Cobbles	
5											
	S-3	14"	5		6	6			14	Same...	
				7			8	9			
	S-4	18"	7		15	15			25	Same...	
				9			10	9			
10											
	S-5	6"	10		12	26			46	Same...	
				12			20	20			
	S-6	8"	12		24	50/3"			-	Same...	
				14			-	-		BORING COMPLETED AT 13± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 3

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-3
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	669.0'
BORING BY: GBI	DATE STARTED: 3/23/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/23/2018	0 Hr. 5'± Date 3/23/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12"	0		3	3			5	Topsoil	
				2			2	3			
	S-2	14"	2		4	6			13	Light Brown Clayey SILT, some coarse to fine Sand, trace	
				4			7	5		Gravel, with Occasional Cobbles	
5											
	S-3	14"	5		3	7			14	Same...	
				7			7	8			
	S-4	24"	7		8	12			22	Same...	
				9			10	10			
10											
	S-5	12"	10		6	13			33	Same...	
				12			20	23			
	S-6	16"	12		28	34			87	Same...	
				14			53	40			
15										BORING COMPLETED AT 14± FEET ON PROBABLE BOULDER	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 4

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-4
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	658.0'
BORING BY:	GBI			DATE STARTED:	3/23/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/23/2018	0 Hr. 10'±	Date 3/23/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12"	0		2	2			5	Topsoil	
				2			3	5			
	S-2	8"	2		8	11			61	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			50/3"	-		Gravel, with occasional Cobbles	
5											
	S-3	5"	5		6	6			12	Same... with Root fibers	
				7			6	6			
	S-4	8"	7		9	9			23	Same...	
				9			14	13			
10											
	S-5	20"	10		3	12			26	Same.....	
				12			14	13			
15											
	S-6	18"	15		21	23			44	Same... with Cobbles	
				17			21	23			
										BORING COMPLETED AT 17± FEET	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 5

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-5
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	658.0'
BORING BY: GBI	DATE STARTED: 3/23/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/23/2018	0 Hr. NE / Date 3/23/18	24 Hr. N/A / Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
		(in)	(ft)	(ft)					(bl/ft)		
0	S-1	6"	0		3	2			5	Topsoil	
				2			3	8			
	S-2	14"	2		6	12			24	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			12	11		Gravel, with occasional Cobbles	
5											
	S-3	14"	5		9	8			17	Same...	
				7			9	8			
	S-4	14"	7		10	13			28	Same... with Dark Brown/Black Sand	
				9			15	12			
10											
	S-5	24"	10		11	14			33	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				12			19	18		Gravel	
15											
	S-6	NR	15		12	14			34	No Recovery	
				17			20	38			
										BORING COMPLETED AT 17± FEET	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 6

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-6
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	652.0'
BORING BY:	GBI			DATE STARTED:	3/23/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/23/2018	0 Hr. 15'±	Date 3/23/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	4"	0		6	5			11	Topsoil	
				2			6	6			
	S-2	14"	2		7	5			11	Light Brown Clayey Silt, and coarse to fine Sand, trace fine, with Cobbles	
				4			6	8		Gravel (-200) = 49.0% W.C. = 13.1%	
5											
	S-3	18"	5		4	7			11	Same...	
				7			4	7			
	S-4	15"	7		8	6			11	Same...	
				9			5	11			
10											
	S-5	16"	10		6	9			22	Light Brown Clayey SILT, some coarse to fine Sand, trace	
				12			13	16		Gravel, with Cobbles	
15											
	S-6	6"	15		13	16			37	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				17			21	22		Gravel , with Cobbles	
										BORING COMPLETED AT 17± FEET	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 7

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-7
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	647.0'
BORING BY:	GBI			DATE STARTED:	3/22/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/22/2018	0 Hr. 7±	Date 3/22/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
		(in)	(ft)	(ft)					(bl/ft)		
0	S-1	12"	0		1	2			6	Topsoil	
				2			4	5			
	S-2	16"	2		4	6			12	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			6	5		Gravel, with Cobbles	
5											
	S-3	20"	5		4	11			25	Light Brown/Gray Clayey SILT, little coarse to fine Sand,	
				7			14	16		trace Gravel, with Cobbles	
	S-4	20"	7		10	13			63	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				9			50/3"	-		Gravel, with Cobbles	
10											
	S-5	14"	10		29	48			106	Same...	
				12			58	22			
15											
	S-6	16"	15		12	11			36	Same...	
				17			25	31			
20											
	S-7	16"	20		23	12			28	Light Brown/Gray Clayey SILT, little coarse to fine Sand,	
				22			16	27		trace Gravel, with Cobbles	
										BORING COMPLETED AT 22± FEET	
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 8

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-8
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	660.0'
BORING BY: GBI	DATE STARTED: 3/22/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/22/2018	0 Hr. 10'± Date 3/22/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12"	0		3	5			10	Topsoil	
				2			5	5			
	S-2	14"	2		5	12			28	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			16	17		Gravel, with Cobbles	
5											
	S-3	12"	5		7	9			19	Same... (mottled)	
				7			10	10			
	S-4	14"	7		10	17			30	Same...	
				9			13	17			
10											
	S-5	7"	10		27	50/3"			-	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				12			-	-		Gravel, with Cobbles	
15											
	S-6	3"	15		50/3"	-			-	Light Brown Clayey Silt, some coarse to fine gravel, little coarse to fine Sand	
				17			-	-			
										BORING COMPLETED AT 17± FEET ON	
										PROBABLE BOULDER	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 9

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-9
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	670.0'
BORING BY:	GBI			DATE STARTED:	3/19/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/19/2018	0 Hr. 10'±	Date 3/19/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12"	0		2	2			4	4" Topsoil	
				2			2	4			
	S-2	15"	2		12	12			19	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			7	5		Gravel	
5											
	S-3	16"	5		3	6			16	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
				7			10	30/2"			
	S-4	NR	8		6	7			15	No Recovery	
10				10			8	18			
	S-5	18"	10		12	24			63	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				12			29	26		Gravel with Cobbles and Boulders	
15											
	S-6	14"	15		24	41			107	Light Brown Clayey SILT, little medium to fine Sand, trace	
				17			66	58		Gravel	
										BORING COMPLETED AT 17± FEET ON	
										PROBABLE BOULDER	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 10

SESI CONSULTING ENGINEERS		PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-10
		LOCATION:	Southeast, New York	JOB NO.	9999
		METHOD:	Hollow Stem Auger	GROUND ELEVATION:	681.0'
BORING BY:	GBI	DATE STARTED:	3/19/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR:	MZ	DATE COMPLETED:	3/19/2018	0 Hr. 10'± Date 3/19/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	12"	0		2	3			7	2" Topsoil	
				2			4	9			
	S-2	22	2		9	10			24	Light Brown Clayey SILT, some coarse to fine Sand, trace	
				4			14	15		Gravel	
5											
	S-3	12"	5		8	8			16	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				7			8	7		Gravel, with Cobbles	
	S-4	22"	7		6	6			13	Same...	
				9			7	6			
10											
	S-5	9"	10		39	23			53	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				12			30	29		Gravel, with Cobbles	
15											
	S-6	6"	15		13	24			54	Same...	
				17			30	34			
20											
	S-7	14"	20		7	14			31	Gray/Green Clayey SILT, little coarse to fine Sand, trace	
				22			17	18		Gravel	
										BORING COMPLETED AT 22± FEET	
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 11

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-11
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	682.0'
BORING BY:	GBI			DATE STARTED:	3/19/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/19/2018	0 Hr. 10'±	Date 3/19/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	9"	0		2	5			9	2" Topsoil	
				2			4	3			
	S-2	10"	2		8	11			20	Light Brown SILT, some coarse to fine SAND, trace Gravel	
				4			9	9			
5	S-3	14"	4		5	8			20	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				6			12	13		Gravel	
	S-4	20"	6		14	11			22	Same...	
				8			11	6			
	S-5	14"	8		24	14			20	Light Brown Clayey SILT, little coarse to fine Sand, trace	
10				10			6	11		Gravel	
	S-6	6"	10		60	50/2"			-	Same...	
				12			-	-			
15											
	S-7	12"	15		18	19			39	Light Brown Clayey SILT, some coarse to fine Sand, little	
				17			20	26		Gravel	
20											
	S-8	1"	19		50/3"	-			-	Light Brown Clayey SILT, trace Sand, trace Gravel with Cobbles	
				20			-	-		BORING COMPLETED AT 19.1± FEET	
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 12

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-12
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	686.0'
BORING BY:	GBI			DATE STARTED:	3/22/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/22/2018	0 Hr. 5'±	Date 3/22/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12"	0		2	2			4	Topsoil	
				2			2	3			
	S-2	12"	2		4	5			10	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
				4			5	8			
5											
	S-3	16"	5		5	6			12	Same...	
				7			6	7			
	S-4	10"	7		10	11			25	Light Brown Clayey SILT, some coarse to fine Sand, trace Gravel,	
				9			14	13		with occasional Cobbles	
10											
	S-5	11"	10		20	18			38	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
				12			20	17			
15											
	S-6	14	15		19	22			42	Same...	
				17			20	21			
20											
	S-7	12"	20		45	48			96	Same...	
				22			48	51			
	S-8	3"	22		50/4"	-			-	Same... with Cobbles	
				24			-	-		BORING COMPLETED AT 22.5± FEET	
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 13

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-13
				LOCATION:	Southeast, New York	JOB NO.	9999
				METHOD:	Hollow Stem Auger	GROUND ELEVATION:	684.0'
BORING BY:	GBI			DATE STARTED:	3/22/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR:	MZ			DATE COMPLETED:	3/22/2018	0 Hr. 10'± Date 3/22/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	8"	0		2	3			6	Topsoil	
				2			3	3			
	S-2	12"	2		2	7			16	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			9	13		Gravel	
5											
	S-3	10	5		25	15			32	Same...	
				7			17	18			
	S-4	NR	7		19	21			43	No Recovery	
				9			22	27			
10											
	S-5	8"	10		13	23			67	Light Brown Clayey SILT, some coarse to fine Sand, trace	
				12			44	50		Gravel, with Cobbles	
	S-6	6"	15		67	58			125	Light Brown Clayey SILT, some coarse to fine Sand, trace	
				17			67	69		Gravel, with Cobbles	
15											
	S-7	9"	20		60	100/3"			-	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				22			-	-		Gravel	
										BORING COMPLETED AT 22± FEET	
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 14

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-14
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	674.0'
BORING BY:	GBI			DATE STARTED:	3/22/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/22/2018	0 Hr. 9.5±	Date 3/22/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
		(in)	(ft)	(ft)					(bl/ft)		
0	S-1	10"	0		2	3			5	Topsoil	
				2			2	2			
	S-2	12"	2		8	9			18	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				4			9	11		Gravel, with occasional Cobbles	
5											
	S-3	24"	5		5	6			15	Same...	
				7			9	10			
	S-4	20"	7		6	9			20	Same...	
				9			11	13			
10											
	S-5	15"	10		10	8			16	Same...	
				12			8	16			
										BORING COMPLETED AT 12± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 15

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-15
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	661.0'
BORING BY: GBI	DATE STARTED: 3/22/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/22/2018	0 Hr. 9'± Date 3/22/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	18"	0		2	3			6	Topsoil	
				2			3	8			
	S-2	12"	2		6	9			25	Light Brown coarse to fine SAND, and Silt, little medium to fine Gravel,	
				4			16	19		with occasional Cobbles	
5											
	S-3	22"	5		7	7			14	Same...	
				7			7	9			
	S-4	24"	7		7	8			16	Same...	
				9			8	9		(-200) = 35.9% W.C. = 14.2%	
10											
	S-5	18"	10		6	15			35	Same...	
				12			20	24			
										BORING COMPLETED AT 12± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 16

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-16
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. 9'±	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	12	0		52	44			78	1" Asphalt; 4" Subbase	
				2			54	29		Light Brown Clayey SILT, little coarse to	
										fine Sand, trace Gravel, with Cobbles	
5											
	S-2	20"	5		34	25			54	Light Brown Clayey Silt, some coarse to fine Sand, little medium to fine	
				7			29	28		Gravel (-200) = 48.9% W.C. = 9.1%	
	S-3	10"	7		48	41			91	Same...	
				9			50	44			
10										BORING COMPLETED 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 17

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-17
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	
BORING BY: GBI	DATE STARTED: 3/20/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/20/2018	0 Hr. 9'± Date 3/20/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	18"	0		24	23			43	Fill: Gray coarse to fine GRAVEL, little coarse to fine Sand, little Silt	
				2			20	17		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	12"	5		5	6			18	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				7			12	11		Gravel, with occasional Cobbles	
	S-3	24"	7		10	8			19	Same...	
				9			11	17			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 18

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-18
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	598'±
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. 8'±	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	12"	0		38	31			59	Fill: 1" Asphalt, 6" Stone Subbase	
				2			28	17		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	8"	5		8	8			21	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				7			13	27		Gravel	
	S-3	12"	7		9	14			30	Same...	
				9			16	16			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 19

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-19
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr.	Date	24 Hr.	Date

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	12"	0		7	11			22	Fill: 1" Asphalt, 8" Gravel Subbase	
				2			11	17		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	14"	5		28	19			73	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				7			54	10		Gravel, with cobbles	
	S-3	10"	7		9	7			15	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				9			8	14		Gravel	
10										BORING COMPLETED AT 9± Feet	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 20

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-20
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	607'±
BORING BY: GBI	DATE STARTED: 3/20/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/20/2018	0 Hr. 9'± Date 3/20/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	16"	0		20	7			15	Fill: 1" Asphalt; 6" Subbase	
				2			8	7		Light Brown Clayey SILT, little coarse to	
										fine Sand, trace Gravel	
5											
	S-2	16"	5		8	50			85	Light Brown Clayey SILT, little coarse to fine Sand, trace	
				7			35	8		Gravel	
	S-3	12"	7		8	8			20	Same...	
				9			12	29			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 21

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-21
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	610'±
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. NE	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	18"	0		5	8			11	Fill: 4" Subbase	
				2			3	4		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	20	5		8	6			13	Same...	
				7			7	10			
	S-3	18	7		9	12			35	Same...	
				9			23	30			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 22

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-22
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr.	Date	24 Hr.	Date

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)					(bl/ft)		
	S-1	14	0		20	15			22	Fill: Gray coarse to fine GRAVEL, some coarse to fine Sand, little Silt	
				2			7	11		Light Brown Clayey SILT, little coarse to	
										fine Sand, trace Gravel	
5											
	S-2	10"	5		4	5			11	Same...	
				7			6	7			
	S-3	20"	7		15	10			24	Same...	
				9			14	20			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 23

SESI CONSULTING ENGINEERS

PROJECT NAME:	Proposed Logistics Center	BORING NO.	SB-23
LOCATION:	Southeast, New York	JOB NO.	9999
METHOD:	Hollow Stem Auger	GROUND ELEVATION:	613'±
BORING BY: GBI	DATE STARTED: 3/20/2018	GROUNDWATER TABLE DEPTH	
INSPECTOR: MZ	DATE COMPLETED: 3/20/2018	0 Hr. 8'± Date 3/20/18	24 Hr. N/A Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	18"	0		33	22			35	1" Asphalt; 5" Subbase	
				2			13	12		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	18"	5		12	12			24	Same...	
				7			12	15			
	S-3	16"	7		12	11			23	Same...	
				9			12	13			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 24

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-24
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	642'±
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. NE	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	20"	0		30	22			40	6" Subbase	
				2			18	14		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	20"	5		14	21			32	Same...	
				7			11	18			
	S-3	24"	7		13	14			28	Same...	
				9			14	16			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 25

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-25
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	664'±
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. 7±	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	20"	0		19	20			35	Fill: 5" Subbase	
				2			15	8		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	16"	5		4	12			26	Same...	
				7			14	8			
	S-3	8"	7		6	8			16	Same...	
				9			8	9			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: - - - - - - - - - - - -

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 26

SESI CONSULTING ENGINEERS				PROJECT NAME:	Proposed Logistics Center			BORING NO.	SB-26
				LOCATION:	Southeast, New York			JOB NO.	9999
				METHOD:	Hollow Stem Auger			GROUND ELEVATION:	674'±
BORING BY:	GBI			DATE STARTED:	3/20/2018	GROUNDWATER TABLE DEPTH			
INSPECTOR:	MZ			DATE COMPLETED:	3/20/2018	0 Hr. 7'±	Date 3/20/18	24 Hr. N/A	Date N/A

DEPTH (ft)	SAMPLE No.	REC	DEPTH FROM	DEPTH TO	Blows on Spoon 0/6	6/12	12/18	18/24	N (bl/ft)	SOIL DESCRIPTION AND STRATIFICATION	Symbol USCS
0		(in)	(ft)	(ft)							
	S-1	18"	0		26	21			31	Fill: Subbase	
				2			10	20		Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel	
5											
	S-2	20"	5		6	7			28	Same...	
				7			18	20			
	S-3	12"	7		43	48			88	Same...	
				9			40	37			
10										BORING COMPLETED AT 9± FEET	
15											
20											
25											
30											
35											
40											

Nominal I.D. of Hole	in
Nominal I.D. of Split Barrel Sampler	1⅜ in
Weight/type of Hammer on Drive Pipe	300 lb
Weight/type of Hammer on Split Barrel	140 lb
Drop of Hammer on Drive Pipe	in
Core Size	in

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Pp: Pocket Penetrometer; WOH: Weight of Hammer; WOR: Weight of Rod

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 27

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-1
LOCATION	SEE FIGURE 1	APPROX. ELEV.	649±'	INSPECTED BY	RR
WATER OBSERVATION	Light seepage @ 2.5±'; Seepage @ 3.5±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6-inch Topsoil	
1	Light Brown Clayey SILT, and coarse to fine Sand, trace Gravel, with occasional cobbles	
2	(USCS : CL)	Medium-Stiff
3	Same as above with mottled Clayey SILT and occasional cobbles	Medium-Stiff
4	(USCS: CL)	
5		
6	End of Test Pit at 5.5± Feet	
7		
8		
9		
10		
11		
12		
13		
14		

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Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-2
LOCATION	SEE FIGURE 1	APPROX. ELEV.	643± '	INSPECTED BY	RR
WATER OBSERVATION	Seepage @ 2', 4', Heavy @ 7±',			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3-inch Topsoil	
1	Light Brown Clayey SILT, and coarse to fine Sand, trace Gravel, with occasional cobbles (USCS : CL)	Medium-Stiff
3	Light Brown mottled Clayey SILT, some coarse to fine Sand, trace Gravel, with occasional cobbles (USCS : CL)	Medium Stiff
7	End of Test Pit at 7± Feet	

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-3
LOCATION	SEE FIGURE 1	APPROX. ELEV.	646± '	INSPECTED BY	RR
WATER OBSERVATION	Heavy seepage @ 2±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3-inch Topsoil	
1	Light Brown Clayey Silt, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : CL)	Medium-Stiff
3	Light Brown mottled Clayey Silt, little coarse to fine Sand, trace Gravel, with occasional cobbles (USCS :CL)	Medium Stiff to Stiff
7	End of Test Pit at 6.75± Feet	

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-4
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645± '	INSPECTED BY	MZ
WATER OBSERVATION	Seepage @ 2.5±', Heavy seepage @ 4±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4-inch Topsoil	
1	Brown Clayey Silt, some coarse to fine Sand, trace Gravel (USCS : CL)	Medium-Stiff
3	Light Brown Clayey SILT, little coarse to fine Sand, trace Gravel with occasional cobble (USCS : CL)	Medium Stiff to Stiff
7	End of Test Pit at 6.8± Feet	

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-5
LOCATION	SEE FIGURE 1	APPROX. ELEV.	641± '	INSPECTED BY	RR
WATER OBSERVATION	Light Seepage @ 22"/ @ 4±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	5-inch Topsoil	
1	Light Brown Clayey SILT, some coarse to fine Sand, trace Gravel (USCS : (CL)	Medium Stiff
3	Light Brown mottled Clayey SILT, little coarse to fine Sand, trace Gravel, with occasional cobbles (USCS : CL)	Medium Stiff
5	Light Brown Clayey Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
6	Light Brown Clayey Silt, some coarse to fine Sand, trace medium to fine Gravel with occassional cobbles and boulder (USCS : CL)	Medium Stiff
10	End of Test Pit at 9.8± Feet	

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-6
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645± '	INSPECTED BY	JQ
WATER OBSERVATION	Seepage @ 1.5±'; Heavy seepage 4±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4-inch Topsoil	
1	Brown Clayey SILT, some coarse to fine Sand, trace Gravel	Medium-Stiff
2	(USCS : CL)	
3	Dark Brown Clayey Silt, little coarse to fine Sand, trace Gravel, with occasional cobbles	Medium Stiff
4	(USCS : CL)	
5		to
6		
7		Stiff
8		
9	End of Test Pit at 8.1± Feet	
10		
11		
12		
13		
14		

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-7
LOCATION	SEE FIGURE 1	APPROX. ELEV.	643± '	INSPECTED BY	JQ/RR
WATER OBSERVATION	Seepage @ 2±'/ Heavy @ 5±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3-inch Topsoil	
1	Light Brown Clayey SILT, some coarse to fine Sand, trace coarse to fine Gravel with occassional cobbles (USCS : CL)	Medium-Stiff
3	Light Brown mottled Clayey SILT, little coarse to fine Sand, trace coarse to fine Gravel with occasional cobbles and boulders (USCS : CL)	Medium-Stiff to Stiff
9	End of Test Pit @ 8.5± Feet	

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-8
LOCATION	SEE FIGURE 1	APPROX. ELEV.	644± '	INSPECTED BY	RR
WATER OBSERVATION	Seepage @ 2±'/ Heavy seepage @ 6±'			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3-inch Topsoil	
1	Light Brown SILT, and coarse to fine Sand, trace medium to fine Gravel	Medium-Stiff
2	W.C. = 15% (-200) = 53.5% (USCS : CL)	
3	Light Brown mottled SILT, some coarse to fine Sand, little medium to fine Gravel with occasional cobbles and boulders	Medium Stiff
4	W.C. = 12.9% (-200) = 52.3% (USCS : CL)	
5		
6		to
7		
8		
9		
10		Stiff
11		
12		
13	End of Test Pit @ 12± Feet	
14		

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Fig.

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 9
LOCATION	SEE FIGURE 1	APPROX. ELEV.	625'±	INSPECTED BY	RR
WATER OBSERVATION	Light seepage at 6'±			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown coarse to fine SAND, and Silt, trace medium to fine Gravel (USCS : SM)	Medium Dense
3	Light-brown coarse to fine SAND, some Silt, little medium to fine Gravel with occasional cobbles (USCS :SM)	Medium Dense
7	End of Test Pit at 6.75± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 10
LOCATION	SEE FIGURE 1	APPROX. ELEV.	629'±	INSPECTED BY	RR
		24-hour water reading = 13±"			
WATER OBSERVATION		Light seepage at 2'±, Heavy seepage at 4'±		DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown coarse to fine SAND, and Clayey Silt, trace medium to fine Gravel, with occassional cobbles (USCS : SM)	Medium Dense
7	End of Test Pit at 6.5± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 11
LOCATION	SEE FIGURE 1	APPROX. ELEV.	630'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 28"±; 24-hour reading = 4±"			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0 — 1	18" Topsoil with light-brown coarse to fine Sand, some Silt, little coarse to fine Gravel	
2 — 3 — 4 — 5 — 6 — 7 — 8	Light-brown coarse to fine Sand, and Clayey Silt, little medium to fine Gravel, with occasional cobbles (USCS : SM/SC)	Medium Dense
9 — 10 — 11 — 12 — 13 — 14	End of Test Pit at 8± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 12
LOCATION	SEE FIGURE 1	APPROX. ELEV.	629'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 26±"; 24-hour reading = 3±"			DATE EXCAVATED	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1–7	Light-brown mottled Clayey SILT, some coarse to fine Sand, trace Gravel with occassional cobbles (USCS : CL)	Medium Stiff
8	End of Test Pit at 7.5± Feet	
9–14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Southeast, NY	**TEST PIT NO.**	TP- 13
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	627'±	**INSPECTED BY**	RR
WATER OBSERVATION	Seepage at 3'± to 3.5'±			**DATE EXCAVATED**	3/5/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	2-3" Topsoil	
1 – 2	Light-brown coarse to fine SAND, some Clayey Silt, little coarse to fine Gravel with occassional cobbles (USCS : SM)	Medium Dense
3 – 6	Same as above with mottled Clayey Silt	Medium Dense
7 – 14	End of Test Pit at 7± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 14
LOCATION	SEE FIGURE 1	APPROX. ELEV.	633'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 7.5'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1 – 2	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel, with occassional cobbles (USCS : SM/SC)	Medium Dense
3 – 8	Light-brown coarse to fine SAND, some clayey Silt, little coarse to fine Gravel, with occassional cobbles (USCS : SM/SC)	Medium Dense
9 – 14	End of Test Pit at 8.5± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 15
LOCATION	SEE FIGURE 1	APPROX. ELEV.	631'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 7'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1–2–3	Light-brown coarse to fine SAND, some clayey Silt, little medium to fine Gravel, with occassional cobbles (USCS : SM) W.C. = 13.8% (-200) = 34.2% Infiltration Rate at el. 628 = 26.4in/hr ; Permeability (K2) = 1.0 in/hr	Medium Dense
4	Light-brown coarse to fine SAND, some clayey Silt, little medium to fine Gravel, with occassional cobbles (USCS : SM)	Medium Dense
5–6–7	Same as above with mottled Clayey Silt and occasional Boulder (USCS: SM)	Medium Stiff
8–9–10–11–12–13–14	End of Test Pit at 7± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Southeast, NY	**TEST PIT NO.**	TP- 16
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	629'±	**INSPECTED BY**	RR
WATER OBSERVATION	Seepage at 6'11"±			**DATE EXCAVATED**	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1 – 4	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel with occassional cobbles (USCS : SM) Infiltration rate at el. 626.5 = 26.0 in/hr ; Permeability (K2) = 0.96 in/hr	Medium Dense
5 – 7	Same as above with some mottled Clayey Silt, with occassional cobbles and boulders (USCS : SM/SC)	Medium Dense
8 – 14	End of Test Pit at 7.5± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 17
LOCATION	SEE FIGURE 1	APPROX. ELEV.	630'±	INSPECTED BY	RR
WATER OBSERVATION	NE			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/Orange SILT, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS : CL)	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulders (USCS : CL)	Medium Stiff
8	End of Test Pit at 7.5± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 18
LOCATION	SEE FIGURE 1	APPROX. ELEV.	628'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 2'±, Heavy at 3'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	7" Topsoil	
1	Light-brown Clayey SILT, some medium to fine Sand, trace Gravel (USCS : CL)	Medium Stiff
3	Light-brown mottled Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles (USCS : CL)	Medium Stiff
7	End of Test Pit at 6.75± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Southeast, NY	**TEST PIT NO.**	TP- 19
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	619'±	**INSPECTED BY**	RR
WATER OBSERVATION	Seepage at 30"±			**DATE EXCAVATED**	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	5" Topsoil	
1	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel, with occassional cobbles (USCS : CL)	Medium Dense
2	Light-brown coarse to fine SAND, some mottled Silt, little coarse to fine Gravel, with occassional cobbles (USCS : CL)	Medium Dense
3		
4		
5		
6		
7	End of Test Pit at 6.25± Feet	
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11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 20
LOCATION	SEE FIGURE 1	APPROX. ELEV.	618'±	INSPECTED BY	RR
WATER OBSERVATION	Light seepage at 4'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, little medium to fine Gravel, with occassional cobbles (USCS : CL)	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little medium to fine Gravel, with occassional cobbles (USCS : CL)	Medium Stiff
7	End of Test Pit at 7.3± Feet	
8		
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 21
LOCATION	SEE FIGURE 1	APPROX. ELEV.	618'±	INSPECTED BY	RR
WATER OBSERVATION	Light seepage at 5'9"±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	2" Topsoil	
1	Light-brown/yellow coarse to fine SAND, some Silt, trace Gravel (USCS : SM)	Medium Dense
2	Light-brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel with occassional cobbles (USCS : CL)	Medium Stiff
4	Light-brown mottled Clayey SILT, some coarse to fine Sand, little medium to fine Gravel with occassional cobbles (USCS : CL)	Medium Stiff
8	End of Test Pit at 7.6± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 22
LOCATION	SEE FIGURE 1	APPROX. ELEV.	616'±	INSPECTED BY	RR
WATER OBSERVATION	Light seepage at 1'8"±; Heavy at 5'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel with occassional cobbles (USCS : SM)	Medium Dense
4	Light-brown mottled Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS : CL)	Medium Stiff
8	End of Test Pit at 8.1± Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 23
LOCATION	SEE FIGURE 1	APPROX. ELEV.	615'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 5'3"±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown coarse to fine SAND, some Silt, little coarse to fine Gravel (USCS : SM)	Medium Dense
2	Infiltration rate at el. 613 = 23 in/hr; Permeability (K2) = 0.86 in/hr	
3		
4	Light-brown coarse to fine SAND, some mottled Silt, little coarse to fine Gravel, with occassional cobbles and boulders (USCS : SM)	Medium Dense
5		
6		
7		
8	End of Test Pit at 7.3± Feet	
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 24
LOCATION	SEE FIGURE 1	APPROX. ELEV.	614'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 4'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow Clayey SILT, some coarse to fine SAND, trace Gravel (USCS : CL)	Medium Stiff
2	Light-brown coarse to fine SAND, some Silt, little medium to fine Gravel with occassional cobbles (USCS : SM)	Medium Dense
3	Light-brown mottled Clayey SILT, some coarse to fine Sand, little medium to fine Gravel, with occassional cobbles and boulders (USCS : CL)	Medium Stiff
7	End of Test Pit at 7± Feet	
8		
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 25
LOCATION	SEE FIGURE 1	APPROX. ELEV.	615'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 4.5'±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown/yellow coarse to fine SAND, some Silt, trace Gravel (USCS : SM)	Medium Dense
2		
3	Light-brown coarse to fine SAND, some mottled Silt, trace Gravel, with occassional cobbles (USCS : SM)	Medium Dense to Dense
4		
5		
6		
7	End of Test Pit at 6.4± Feet	
8		
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 26
LOCATION	SEE FIGURE 1	APPROX. ELEV.	602'±	INSPECTED BY	RR
WATER OBSERVATION	Seepage at 6'1"±			DATE EXCAVATED	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : CL)	Medium Stiff
2	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with high frequency of boulders (USCS : CL)	Medium Stiff
3		
4		
5		
6		
7		
8	End of Test Pit at 7.25± Feet	
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Southeast, NY	**TEST PIT NO.**	TP- 28
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	621'±	**INSPECTED BY**	RR
WATER OBSERVATION	Seepage at 21"±; Heavy at 4.5'±			**DATE EXCAVATED**	3/6/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : CL)	Medium Dense
2	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : CL)	Medium Stiff
7	End of Test Pit at 7± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	TP- 33
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	603'±	**INSPECTED BY**	MZ
WATER OBSERVATION	Seepage at 5'			**DATE EXCAVATED**	3/20/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown Clayey SILT, some medium to fine Sand, trace Gravel	Medium Stiff
2		
	Infiltration Rate at el. 600.5= 24.0 in/hr; Permeability (K2) = 0.88in/hr	
3		
4		
	Light-brown Clayey SILT, little medium to fine Sand, trace Gravel	Medium Stiff
5		
6		to
7		Stiff
8		
	End of Test Pit at 8.0 Feet	
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	TP- 34
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	600'±	**INSPECTED BY**	MZ
WATER OBSERVATION	Seepage at 5'+			**DATE EXCAVATED**	3/20/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown Clayey SILT, some medium to fine Sand, trace Gravel (USCS : CL)	Medium Stiff
3	Light-brown mottled Clayey SILT, little medium to fine Sand, trace Gravel with occassional cobbles (USCS : CL)	Medium Stiff to Stiff
9	End of Test Pit at 9.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP- 35
LOCATION	SEE FIGURE 1	APPROX. ELEV.	599'±	INSPECTED BY	MZ
WATER OBSERVATION	Seepage at 7'+			DATE EXCAVATED	3/20/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown Clayey SILT, some medium to fine Sand, trace Gravel (USCS : SC/CL)	Medium Stiff
3	Light-brown mottled Clayey SILT, little medium to fine Sand, trace Gravel with occassional cobbles (USCS : SC/CL)	Medium Stiff to Stiff
10	End of Test Pit at 9.6 Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP- 39
LOCATION	SEE FIGURE 1	APPROX. ELEV.	608'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 22"±; Heavy at 3.0'±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
2	(USCS : SC/CL)	
3	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
4	(USCS : SC/CL)	
5		to
6		
7		
8		Stiff
9		
10	End of Test Pit at 10± Feet	
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP- 41
LOCATION	SEE FIGURE 1	APPROX. ELEV.	596'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 32"±; Heavy at 4.0'±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles and occasional boulder (USCS : SC/CL)	Medium Stiff to Stiff
8	End of Test Pit at 7.5± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP- 43
LOCATION	SEE FIGURE 1	APPROX. ELEV.	596'±	INSPECTED BY	MZ
WATER OBSERVATION	Seepage at 2'±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1–5	Light-brown SILT, some medium to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
5–10	Light-brown mottled SILT, little coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
10	End of Test Pit at 10.0 Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	TP- 46
LOCATION	SEE FIGURE 1	APPROX. ELEV.	581'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 2'3"±; Heavy at 4.0'±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
10	End of Test Pit at 9.3± Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	TP-51
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	635.0±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7.5±'			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	9" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
3	Light Brown Silt, some coarse to fine Sand, travel Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
10	Test Pit Completed at 10± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-52
LOCATION	SEE FIGURE 1	APPROX. ELEV.	634±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±', Heavy seepage at 4.5±'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, travel Gravel with occassional cobbles (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
10	Test Pit Completed at 9.5± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-53
LOCATION	SEE FIGURE 1	APPROX. ELEV.	632±'	INSPECTED BY	JQ
WATER OBSERVATION	Heavy seepage at 5.5±'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, some Silt, trace Gravel (USCS: SM)	Medium Dense
2	Light Brown Silt, some coarse to fine Sand, trave Gravel with occassional cobbles (USCS: CL)	Medium Stiff
3		
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5		
6		
7		
8		
9		
10	Test Pit Completed at 9.3± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-54
LOCATION	SEE FIGURE 1	APPROX. ELEV.	676±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4± Heavy seepage at 5±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	7" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel with occassional cobbles	Medium Stiff
2	(USCS: CL)	
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	Medium Stiff
4	(USCS: CL)	
5		
6		to
7		
8		
9		Stiff
10	Test Pit Completed at 9.9±	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-55
LOCATION	SEE FIGURE 1	APPROX. ELEV.	686±	INSPECTED BY	JQ
WATER OBSERVATION	NE			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
3	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
4	Light Brown Silt, some coarse to fine Sand, trace Gravel with occassional cobbles (USCS: CL)	Medium Stiff
6	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
11	Test Pit Completed at 10.3±	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-56
LOCATION	SEE FIGURE 1	APPROX. ELEV.	688±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 10±'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown/Gray Silt, some coarse to fine Sand, trace Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
10	Test Pit Complete at 10.3±'	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	TP-57
LOCATION	SEE FIGURE 1	APPROX. ELEV.	672+'	INSPECTED BY	JQ
WATER OBSERVATION	7' 0" seepage			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown/Yellow coarse to fine Sand and Silt, trace Gravel	Medium Dense
2	Light Brown Silt, some coarse to fine sand, little coarse to fine Gravel with occassional cobbles	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	Medium Stiff
11	TEST PIT COMPLETED AT 11' 3"	
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-1
LOCATION	SEE FIGURE 1	APPROX. ELEV.	626.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 2±'; Heavy seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with frequent cobbles and occasional Boulder (USCS: CL)	Medium Stiff to Stiff
8	Test Pit Completed at 8± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP-2**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	628.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 2±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 8.5± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-3
LOCATION	SEE FIGURE 1	APPROX. ELEV.	632±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2		
3	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4		
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulders (USCS: CL)	Medium Stiff
6		
7		
8		
9		
10	Test Pit Completed at 9.5± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-4
LOCATION	SEE FIGURE 1	APPROX. ELEV.	631.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6'10"±			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medim Stiff to Stiff
9	Test Pit Completed at 9.1± Feet	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-5
LOCATION	SEE FIGURE 1	APPROX. ELEV.	618.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Light seepage at 3±'; Heavy seepage at 4±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2		
3		
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5		
6		to
7		
8		
9		Stiff
10	Test Pit Completed at 9.5± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 6
LOCATION	SEE FIGURE 1	APPROX. ELEV.	613'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'10"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS : SC/CL)	
3		
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel,	Medium Stiff
5	with occassional cobbles	
6	(USCS : SC/CL)	
7		
8		
9		
10		
11	End of Test Pit at 10.5± Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-7
LOCATION	SEE FIGURE 1	APPROX. ELEV.	616.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6.5±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS: CL)	
3		
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
5	with occassional cobbles	
6	(USCS: CL)	to
7		
8		Stiff
9	Test Pit Completed at 8.5± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-8
LOCATION	SEE FIGURE 1	APPROX. ELEV.	619.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light Brown/Yellow medium to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-9
LOCATION	SEE FIGURE 1	APPROX. ELEV.	644.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-10
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4.5±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff to Stiff
11	Test Pit Completed at 10.5± Feet	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-11
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6.75±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel with occassional cobbles	Medium Stiff
2	(USCS: CL)	
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	Medium Stiff
4	(USCS: CL)	
5		
6		to
7		
8		
9		Stiff
10		
	Test Pit Completed at 10± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-12
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 8.5± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-13
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulder (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-14
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff to Stiff
9	Test Pit Completed at 9.25±'	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-15
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Light seepage at 4.5±'; Heavy seepage at 7±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	9" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff to Stiff
9	Test Pit Completed at 9± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-16
LOCATION	SEE FIGURE 1	APPROX. ELEV.	638.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Light Brown mottled Clayey Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	

NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 17**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	638'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1–5	Light-brown SILT, some medium to fine Sand, trace Gravel	Medium Stiff
5–10	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10	End of Test Pit at **10.1** Feet	
11–14		

NOTE:

Fig.

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PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 18
LOCATION	SEE FIGURE 1	APPROX. ELEV.	640'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, and medium to fine Sand, trace Gravel	Medium Stiff
2		
3	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel	Medium Stiff
4		
5	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulder	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 19**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	649'+	**INSPECTED BY**	JQ
WATER OBSERVATION	8'+			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine Sand, some Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Dense
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
5	Light-brown coarse to fine Sand, and mottled Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
10	End of Test Pit at 10.5 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 20**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	648'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'5"			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown/yellow medium to fine Sand, and Silt, trace Gravel	Medium Dense
3	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Dense
5	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10	End of Test Pit at 10.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 21**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	638'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Not Encountered			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	12" Topsoil	
1	Light-brown/yellow coarse to fine Sand, and Silt, trace Gravel	Medium Dense
2	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Stiff
3		
4	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff to Stiff
5		
6		
7		
8		
9		
10	End of Test Pit at 9.5 Feet	
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 22
LOCATION	SEE FIGURE 1	APPROX. ELEV.	646'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 9'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1 – 5	Light-brown SILT, some coarse to fine Sand, trace Gravel with occassional cobbles	Medium Stiff
5 – 10	Light-brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
11	End of Test Pit at 10.5 Feet	
12 – 14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 23
LOCATION	SEE FIGURE 1	APPROX. ELEV.	644'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
2		
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.3 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 24
LOCATION	SEE FIGURE 1	APPROX. ELEV.	649'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'4"±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, some medium to fine Sand, trace Gravel	Medium Stiff
2	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel,	Medium Stiff
3		
4	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
5		
6		
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 25**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	657'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 5'6"±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, little coarse to fine Gravel	Medium Dense
2	Percolation Rate = 40 min/in @ Elv. 655 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
8	End of Test Pit at 8.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 26**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	655'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6.5'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
3	Percolation Rate = 13.3 min/in @ Elv. 652.9 Brown coarse to fine SAND, some Silt, trace Gravel	Medium Dense
6	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
8	End of Test Pit at 8.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 27**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	652'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1 – 4	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 24 min/in @ Elv. 649.8	Medium Stiff
5 – 9	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
10 – 14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 28**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	648'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2		
3	Percolation Rate = 7.2 min/in @ Elv. 645.8 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4		
5		
6	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
7		
8		
9	End of Test Pit at 8.5 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 29**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	657'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Dense
2	Percolation Rate = 10 min/in @ Elv. 654.9	
3	Brown/gray mottled SILT, some coarse to fine Sand, trace Gravel	Medium Stiff
4		
5		
6		
7		
8		
9	End of Test Pit at 8.5 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 30**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	655'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Light seepage at 5'5"±; Heavy at 6'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 30 min/in @ Elv. 652.9	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 31
LOCATION	SEE FIGURE 1	APPROX. ELEV.	652'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 10.9 min/in @ Elv. 649.8	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 32**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	647'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6.5'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Percolation Rate = 12 min/in @ Elv. 644.9	
3	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
6		
7		
8	End of Test Pit at 8.0 Feet	
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

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Definitions of Identification Terms for Granular Soils

Our experience has shown that the following field identification system, which is patterned somewhat after the Burmister System, permits a more detailed breakdown of the components within a soil sample than other identification systems allow. It also compels the supervising technician to examine a sample quite closely in order to accurately describe the components within the sample.

Principal Component (All Capitalized)

- GRAVEL — More than 50% of the sample by weight is Gravel
- SAND — More than 50% of the sample by weight is Sand
- SILT — More than 50% of the sample by weight is Silt

Minor Component (Proper Case)

- Gravel — Less than 50% of the sample by weight is Gravel
- Sand — Less than 50% of the sample by weight is Sand
- Silt — Less than 50% of the sample by weight is Silt

Proportion Terms

- and — Component ranges from 35% to 50% of the sample by weight
- some — Component ranges from 20% to 35% of the sample by weight
- little — Component ranges from 10% to 20% of the sample by weight
- trace — Component ranges from 0% to 10% of the sample by weight

DRAFT

Size of Soil Components

- Gravel
  - Coarse gravel ranges from 3 inches to 1 inch
  - Medium gravel ranges from 1 inch to 3/8 inch
  - Fine gravel ranges from 3/8 inch to No. 10 sieve
- Sand
  - Coarse sand ranges from No. 10 sieve to No. 30 sieve
  - Medium sand ranges from No. 30 sieve to No. 60 sieve
  - Fine sand ranges from No. 60 sieve to No. 200 sieve
- Silt
  - Material which passes the No. 200 sieve
- Clay
  - Material which passes the No. 200 sieve
  - Exhibits varying degrees of plasticity

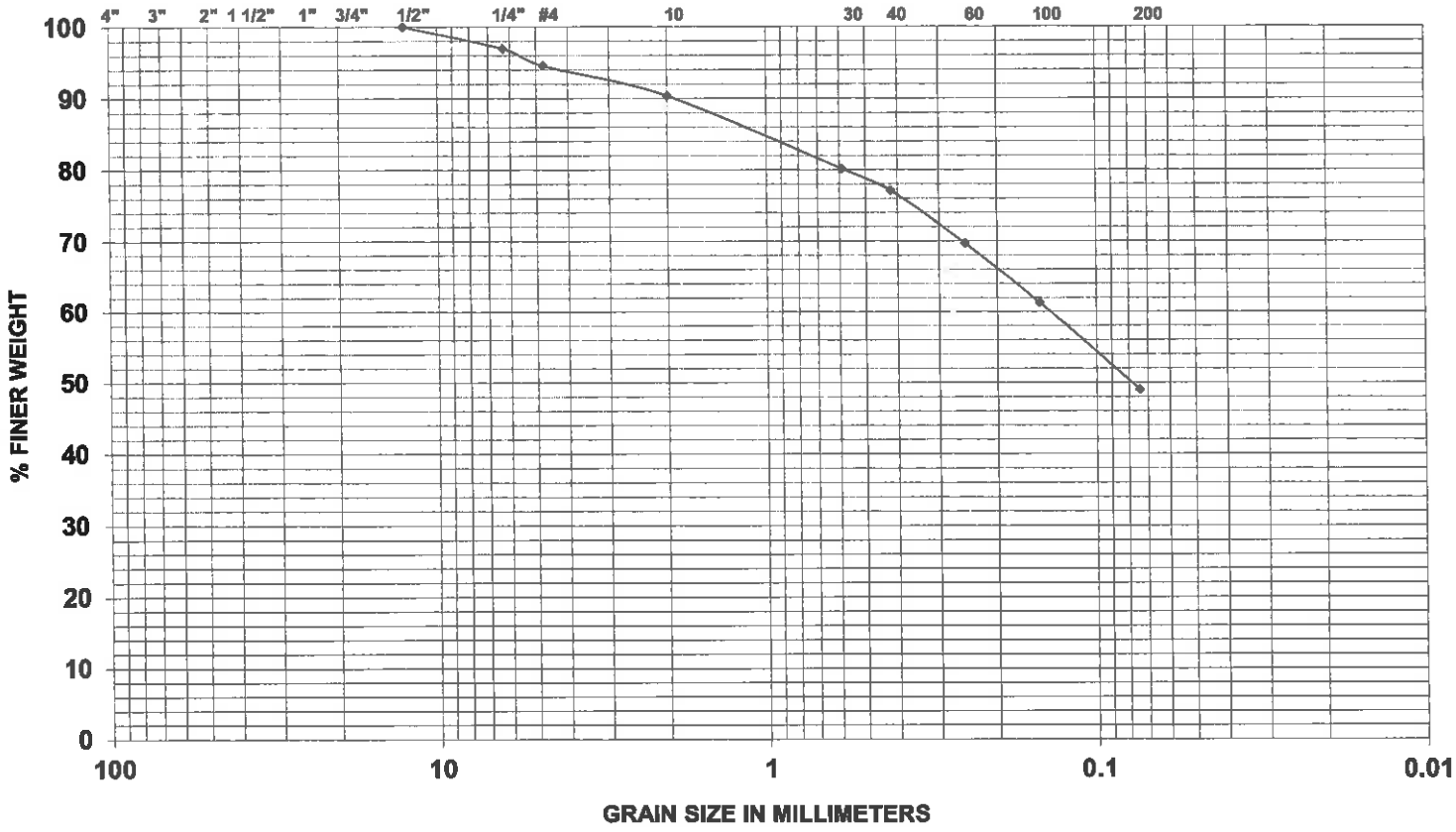
Gradation Designations

- Coarse to fine (c-f) — All fractions greater than 10%of the component
- Coarse to medium (c-m) — Less than 10% of the component is fine
- Medium to fine (m-f) — Less than 10% of the component is coarse
- Coarse (c) — Less than 10% of the component is medium and fine
- Medium (m) — Less than 10% of the component is coarse and fine
- Fine (f) — Less than 10% of the component is coarse and medium

Fig.

GRAVEL			SAND			SILT OR CLAY
COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	
3/4"			2mm			.074mm

U.S STANDARD SIEVE SIZES



Symbol	◆	■	▲
Boring	SB-6		
Sample	S-2		
Depth	2-4'		
% +3"			
% Gravel	9.63		
% Sand	41.37		
% Fines	49.00		
% Silt			
% Clay			
Sp.G			
LL			
PL			
PI			
W (%)	13.1		

Particle Size Sieve #	Percent Finer Than
3"	-
1 1/2"	-
1"	-
3/4"	-
1/2"	100.00
1/4"	96.95
4	94.57
10	90.37
30	80.17
40	77.12
60	69.69
100	61.30
200	49.00

PARTICLE SIZE DISTRIBUTION

CLIENT:
PROJECT: Proposed Logistics Center
DATE: April 6, 2018
JOB NO. 9999 FIGURE No

SYMBOL	DESCRIPTION AND REMARKS
◆	Light Brown Clayey Silt, and coarse to fine Sand, trace fine Gravel
■	
▲	

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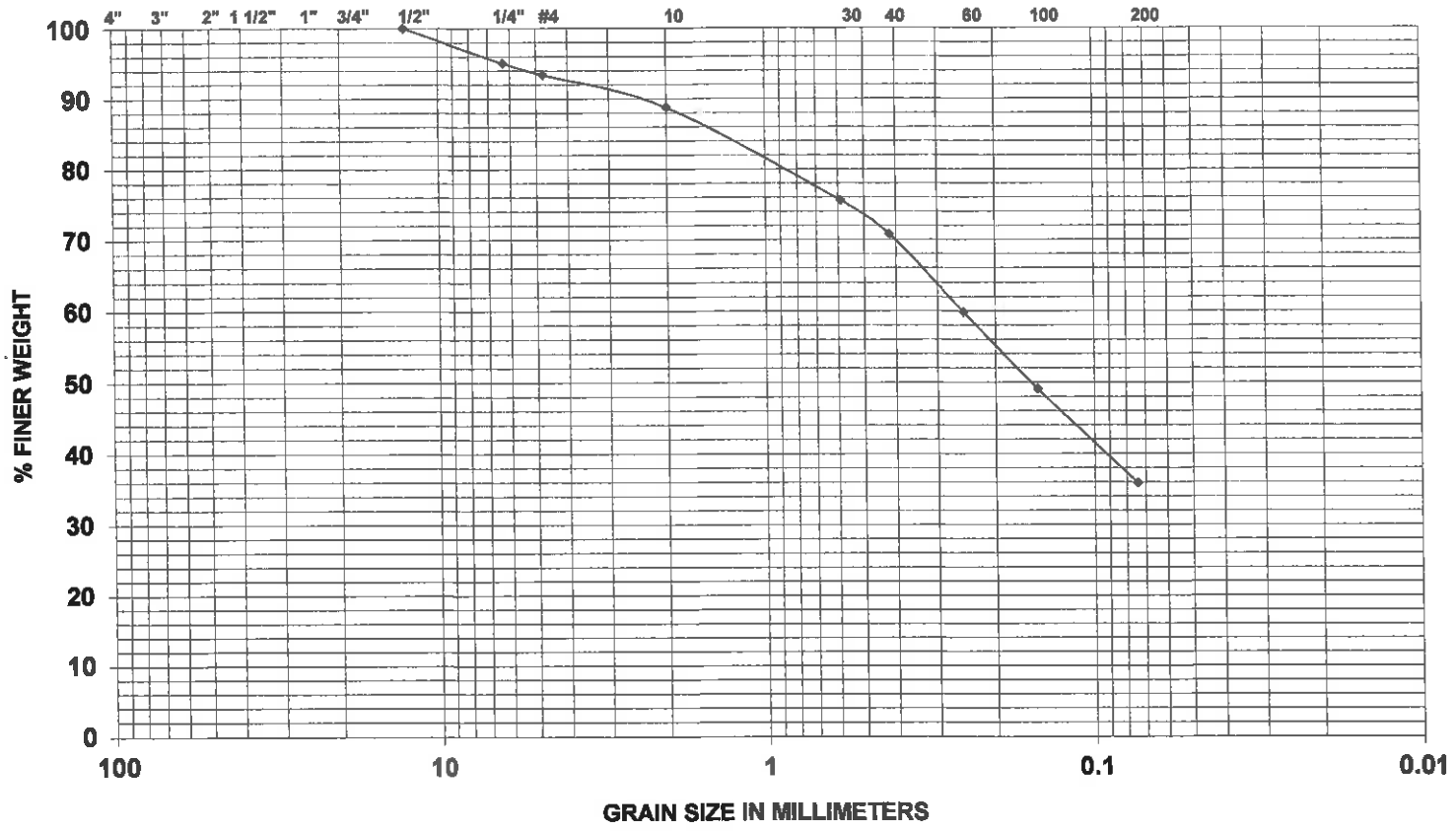
GRAVEL			SAND			SILT OR CLAY
COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	
3/4"			2mm		.074mm	

U.S STANDARD SIEVE SIZES



Symbol	◆	■	⚠
Boring	SB-15		
Sample	S-4		
Depth	7-9'		
% +3"			
% Gravel	11.22		
% Sand	52.90		
% Fines	35.88		
% Silt			
% Clay			
Sp.G			
LL			
PL			
PI			
W (%)	14.2		

Particle Size Sieve #	Percent Finer Than
3"	-
1 1/2"	-
1"	-
3/4"	-
1/2"	100.00
1/4"	95.07
4	93.40
10	88.78
30	75.58
40	70.80
60	59.82
100	49.09
200	35.88

PARTICLE SIZE DISTRIBUTION

CLIENT:

PROJECT: Proposed Logistics Center

DATE: April 6, 2018

JOB NO. 9999 FIGURE No

SYMBOL	DESCRIPTION AND REMARKS
◆	Light Brown coarse to fine SAND, and Silt, little medium to fine Gravel
■	
⚠	

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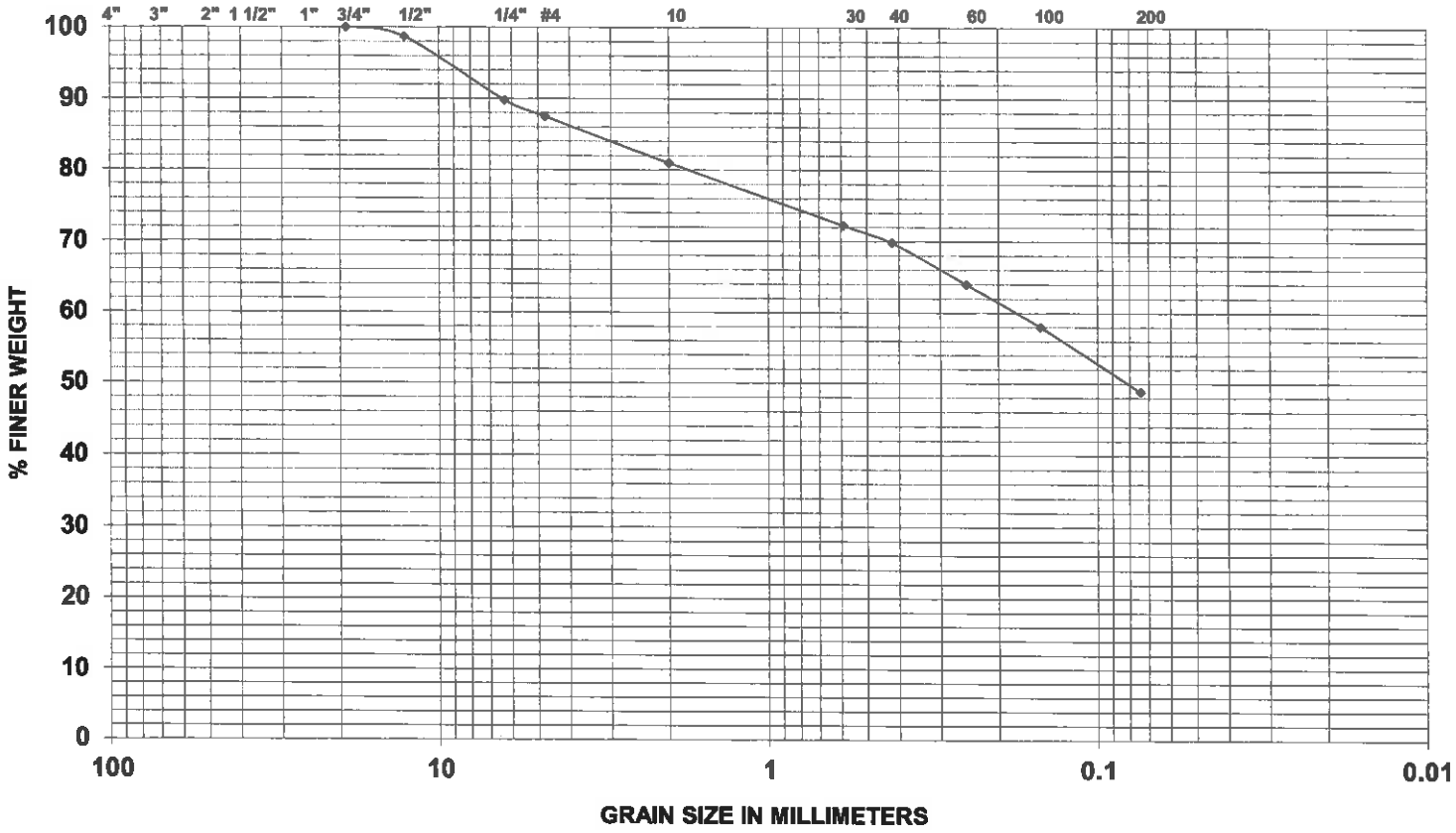
GRAVEL			SAND			SILT OR CLAY
COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	
	3/4"		2mm			.074mm

U.S STANDARD SIEVE SIZES



Symbol	◆	■	▲
Boring	SB-16		
Sample	S-2		
Depth	5-7'		
% +3"			
% Gravel	19.01		
% Sand	32.17		
% Fines	48.82		
% Silt			
% Clay			
Sp.G			
LL			
PL			
PI			
W (%)	9.1		

Particle Size Sieve #	Percent Finer Than
3"	-
1 1/2"	-
1"	-
3/4"	100.00
1/2"	98.67
1/4"	89.79
4	87.50
10	80.99
30	72.26
40	69.82
60	63.98
100	57.99
200	48.82

PARTICLE SIZE DISTRIBUTION

CLIENT:

PROJECT: Proposed Logistics Center

DATE: April 6, 2018

JOB NO. 9999 FIGURE No

SYMBOL	DESCRIPTION AND REMARKS
◆	Light Brown Silt, some coarse to fine Sand, little medium to fine Gravel
■	
▲	

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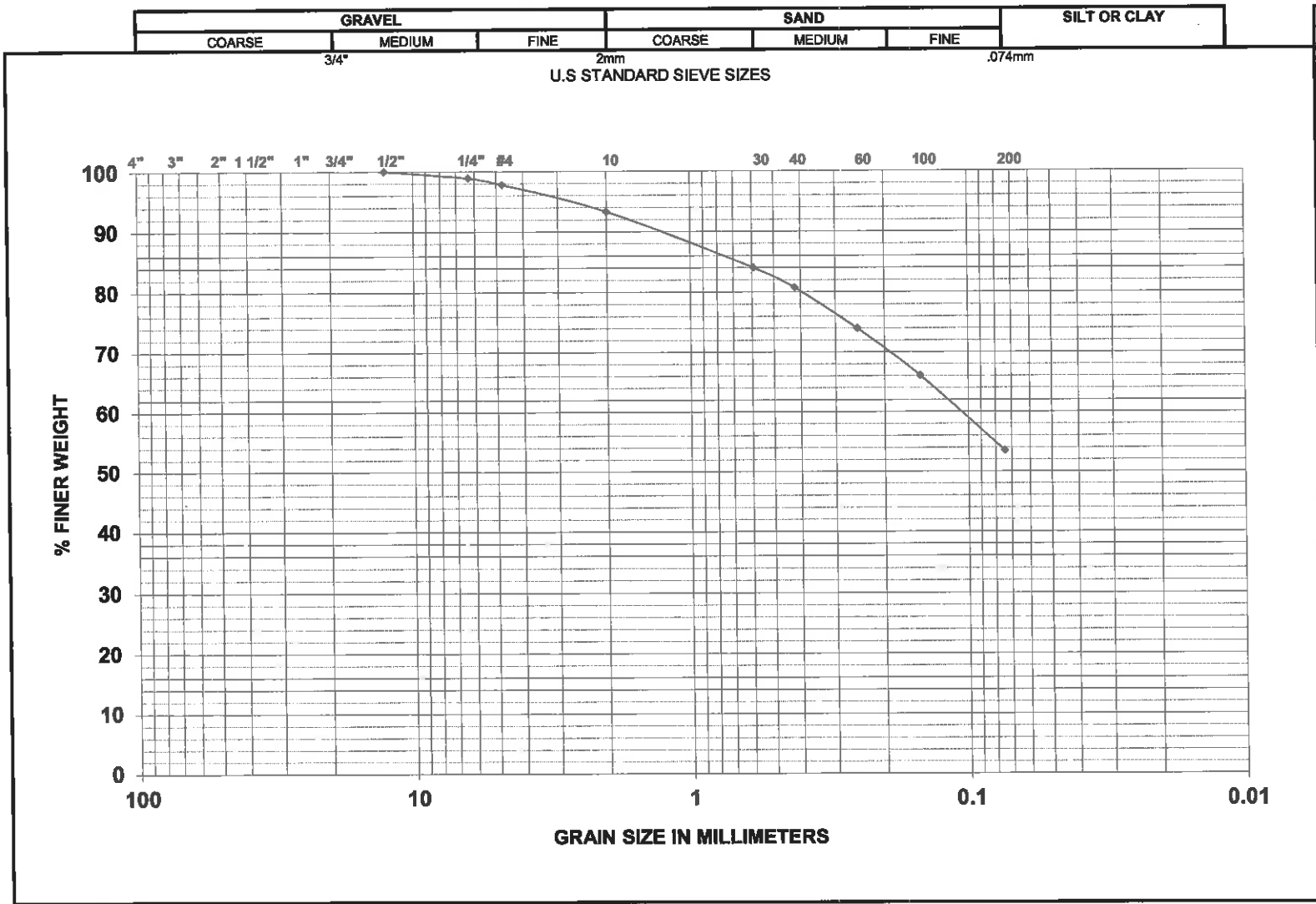

Symbol	◆	■	△
Boring	TP-8		
Sample	S-1		
Depth	0.3-2.5'		
% +3"			
% Gravel	6.69		
% Sand	39.84		
% Fines	53.47		
% Silt			
% Clay			
Sp.G			
LL			
PL			
PI			
W (%)	15%		

Particle Size Sieve #	Percent Finer Than
3"	
1 1/2"	
1"	
3/4"	
1/2"	100.00
1/4"	98.87
4	97.78
10	93.31
30	83.99
40	80.71
60	73.95
100	66.05
200	53.47

PARTICLE SIZE DISTRIBUTION

CLIENT: Putnam Seabury Partners, LP
PROJECT: PNILC
DATE: March 6, 2018
JOB NO. 9999 FIGURE No

SYMBOL	DESCRIPTION AND REMARKS
◆	Light Brown SILT, and coarse to fine Sand, trace Gravel
■	
△	

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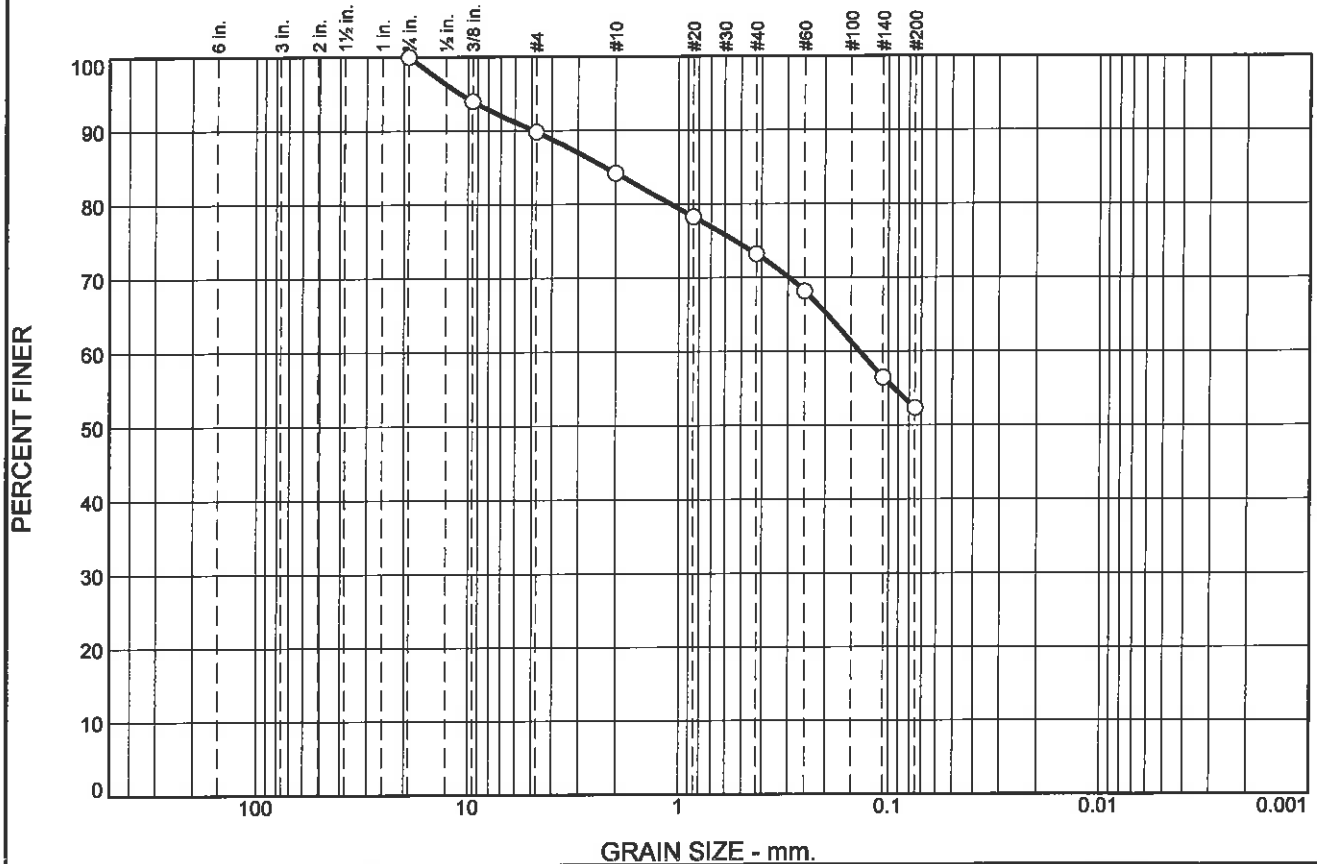
GRAIN SIZE DISTRIBUTION REPORT



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.2	5.6	11.0	20.9	52.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	94.0		
#4	89.8		
#10	84.2		
#20	78.2		
#40	73.2		
#60	68.2		
#140	56.5		
#200	52.3		

* (no specification provided)

Material Description

Light gray-brown sandy lean clay

Atterberg Limits

PL= 16 LL= 25 PI= 9

Coefficients

D_{90}= 4.9026 D_{85}= 2.2459 D_{60}= 0.1373
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-4(2)

Remarks

Sample washed on #200 sieve
Moisture content=12.9%

Source of Sample: TP-8 **Depth:** 2.5-12 ft.
Sample Number: S-2

Date: 3-16-2018

SKYLANDS TESTING, LLC

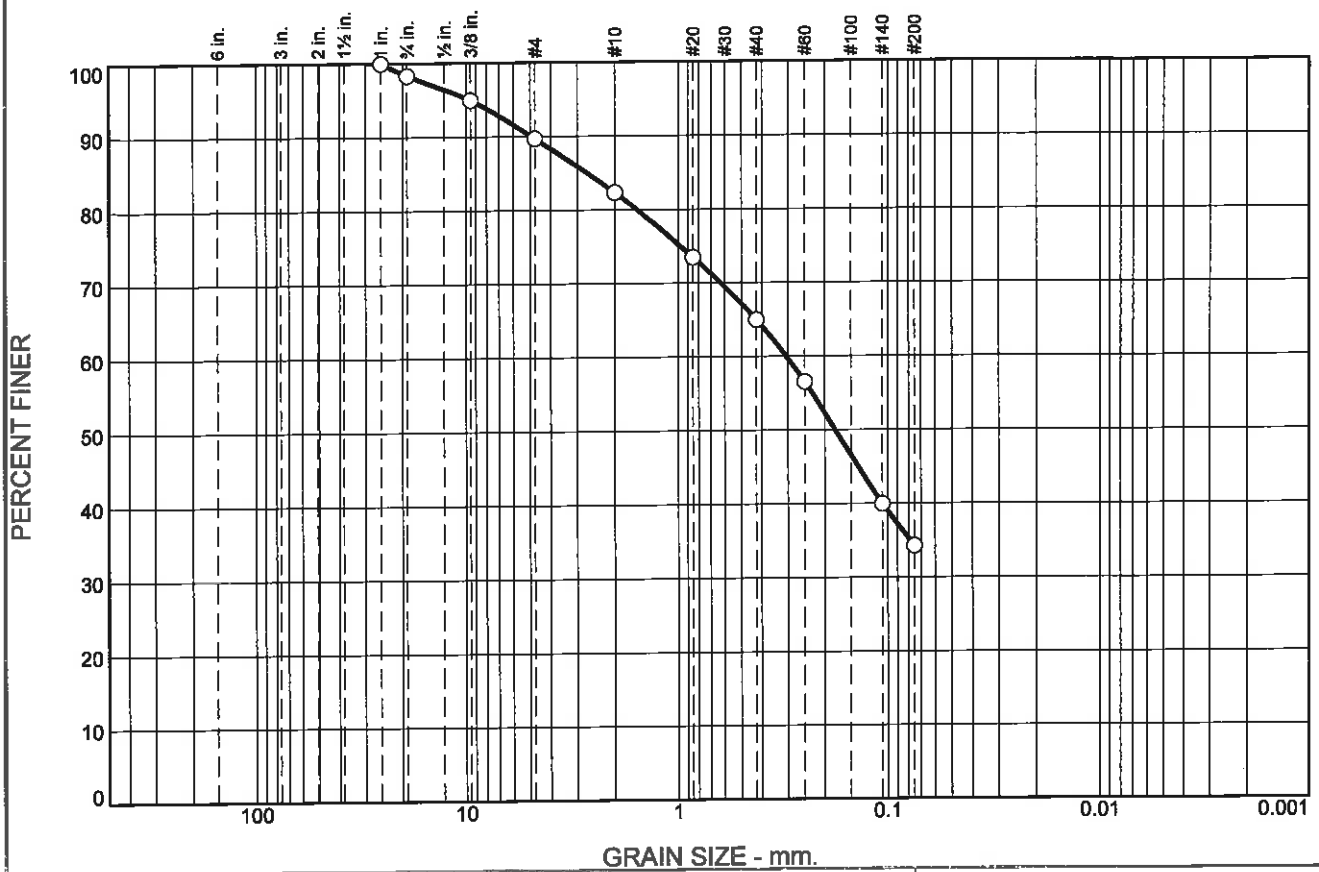
Sparta, NJ

Client: SESI Consulting Engineers
Project: Southeast, NY

Project No: 18-011 **Figure**

Tested By: EJS, AB **Checked By:** VRS

GRAIN SIZE DISTRIBUTION REPORT



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.7	8.6	7.4	17.3	30.8	34.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	98.3		
.375	94.9		
#4	89.7		
#10	82.3		
#20	73.5		
#40	65.0		
#60	56.5		
#140	40.0		
#200	34.2		

* (no specification provided)

Material Description

Brown silty sand; w/ trace(-) roots

Atterberg Limits

PL= NP LL= PI=

Coefficients

D_{90}= 4.9396 D_{85}= 2.6965 D_{60}= 0.3054
D_{50}= 0.1781 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Sample washed on #200 sieve
Moisture content=13.8%

Source of Sample: TP-15 **Depth:** 1-3 ft.
Sample Number: S-1

Date: 3-16-2018

SKYLANDS TESTING, LLC

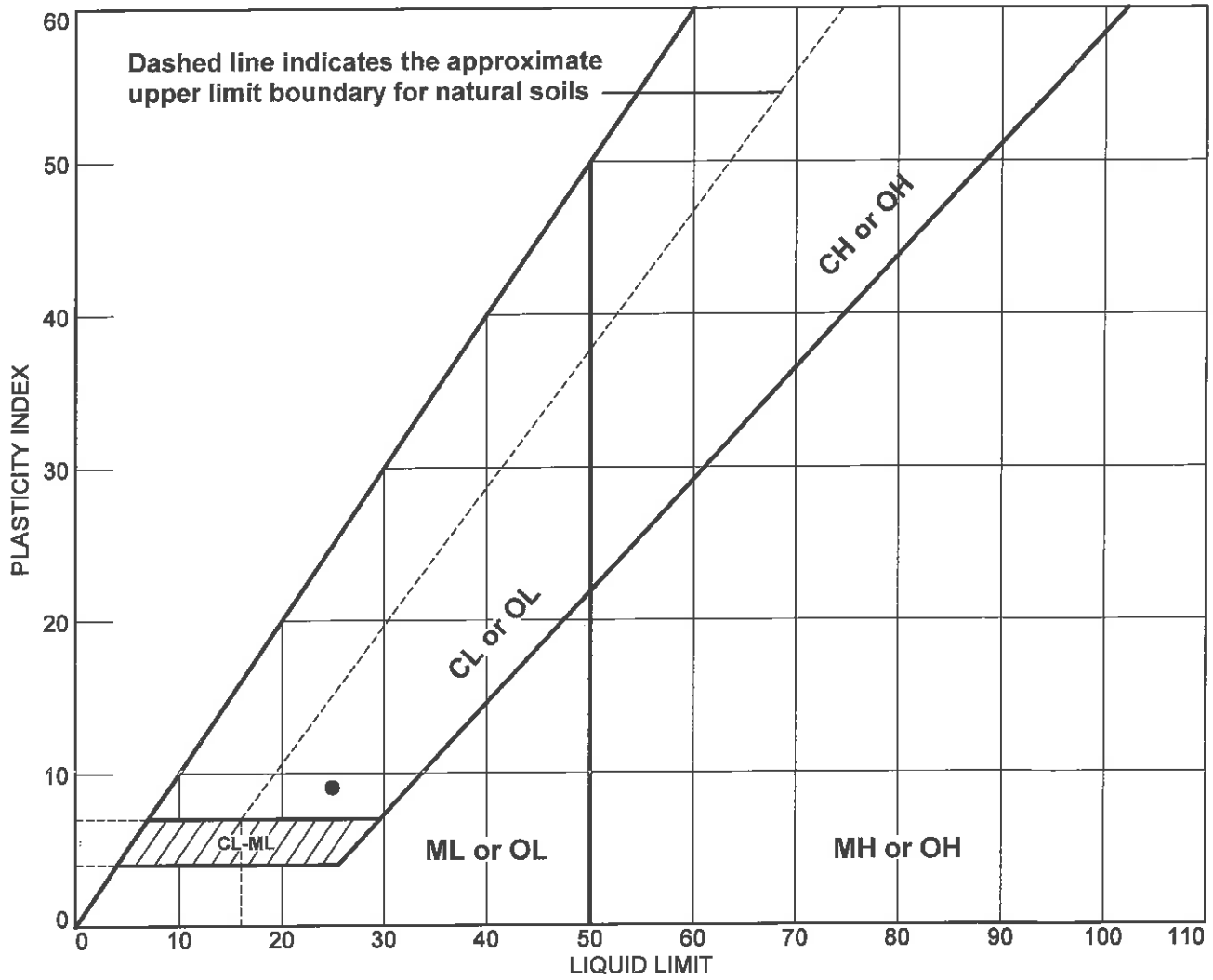
Sparta, NJ

Client: SESI Consulting Engineers
Project: Southeast, NY

Project No: 18-011 **Figure**

Tested By: EJS, AB **Checked By:** VRS

ATTERBERG LIMITS REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-8	S-2[1]	2.4-12 ft.	12.9	16	25	9	CL
■	TP-15	S-1[1]	1-3 ft.	13.8	NP			SM

Notes: 1 - sample washed on #40

SKYLANDS TESTING, LLC

Sparta, NJ

Client: SESI Consulting Engineers **Date:** 3-16-2018

Project: Southeast, NY

Project No.: 18-011 **Figure**

Tested By: EJS **Checked By:** VRS

DRAFT

APPENDIX

October 7, 1987
N-2434-87

John Meyer Consulting
120 Bedford Road
Armonk, NY 10504

Attention: Mr. Gary D. Miller, ASLA

RE: Preliminary Subsurface Investigation
Proposed Campus Project
Southeast, New York

Gentlemen:

In accordance with your request, we have completed our preliminary subsurface investigation for the proposed Campus Project to be situated within the Town of Southeast, New York.

Our investigation consisted of advancing eight (8) soil borings using hollow-stem augers and excavating fifty-two (52) test pits using a rubber-tired backhoe. The locations of soil borings and test pit excavations are illustrated in Figure 1. The soil borings were advanced to a maximum depth of 27± feet below existing grade, while the test pit excavations varied in depth from 7 to 11± feet below existing grade. Individual soil boring and test pit logs, which describe the materials encountered, are presented in Figures 2 through 9 and 10 through 61, respectively.

Laboratory classification tests consisting of two (2) grain-size analyses were performed on representative samples obtained during the

field investigation. The results of these tests are presented in graphical form on Figures 62 and 63.

DESCRIPTION OF SITE AND PROPOSED CONSTRUCTION

The proposed development is to be located on a site within the town of Southeast and is bounded on the north and east by Pugsley Road, on the south by New York Route 312 and private residences and on the west by private residences. The site is presently a combination of open agricultural fields and wooded areas. Rock rubble walls and hedge rows were noted throughout the site to subdivide the fields. A power transmission line easement was also noted on the western side of the site traversing north to south. Existing grades on this site varied significantly from approximately Elevation 690± to the rear of the existing farm structures down to approximately Elevation 480± along the western property line.

A site plan for this site was unavailable at the time of this investigation, therefore, the number, size and actual locations of the of structures, and associated cuts and fills are not known at this time. It is our understanding however, that the planned construction will ultimately consist of 1,000,000± square feet of office buildings, a hotel and conference center, and approximately 400 residential condominiums, along with the associated roadways and parking areas. It is probable that the office building and hotel sites and the main entrance roadway will require significant cuts and fills.

SUBSURFACE CONDITIONS

The soils encountered during the field portion of our investigation were predominantly uniform throughout the site. Each soil boring and test pit excavation revealed a layer of topsoil, typically to a depth of approximately 1± foot below existing grade. Underlying the topsoil, a dense to very dense silt and clayey silt with varying amounts of sand and gravel was encountered. This material was present through the completion depths of the soil borings and test pit excavations. Boulders and cobbles were also present throughout the site profile. Seven of the test pits encountered refusal and/or water seepage on cobbles and boulders.

Groundwater and/or water seepage was encountered in most of the soil borings and test pit excavations at a depth ranging form 2.0 to 20± feet below existing grade. Within ten of the test pit excavations, groundwater seepage was not encountered. Since the groundwater levels varied widely, the necessity of special dewatering procedures cannot be determined until proposed grades have been established.

EVALUATION AND PRELIMINARY RECOMMENDATIONS

General

From a soils and foundations standpoint, this site may be considered good to excellent with respect to providing support of the proposed structures. No extensive deposits of uncontrolled fill and no thick layers of organic material or other unsuitable materials were encountered during this investigation.

The natural glacial silt/clayey silt soils encountered beneath the topsoil are typically in a stiff/dense condition and will allow for conventional shallow foundations with reasonable allowable bearing capacities.

The primary negative aspects of the subsurface conditions are: the relatively shallow groundwater levels in some areas; the silty/clayey nature and therefore moisture sensitivity of most of the soils encountered; the presence of numerous cobbles and boulders; and, the dense to very dense condition of the site soils within the proposed deep road cuts adjacent to Route 312.

Site Preparation Procedures

Site preparation will consist of stripping topsoil and other organic material from within building and parking areas and then cutting and filling the site to grade.

The cut soils below the topsoil may be used to fill buildings, parking and roadway areas. However, because the majority of these materials possess a high silt/clay content, they cannot be worked or compacted when saturated and, once wet, will require a long period of time to dry. The ease with which soil fills can be constructed on this site will, to a high degree, depend on construction procedures and on the time of year in which construction takes place.

Shotrock and clean demolition rubble may also be used in fill areas. It should, however, be confined to areas in which later excavation for utilities, foundations, or other structures is not required. Compaction

of shot rock fills should be accomplished by placing the rock as thinly as possible and working it into the underlying material with a large piece of equipment such as a D-8. Shotrock fills should be constructed so that all large voids between the rock chunks are eliminated in the placement and working of the material. The numerous boulders that will likely be encountered in the cuts should be placed in the deeper fill areas and spaced sufficiently such that no large voids are created.

Soil fill should be placed in maximum 12-inch thick layers and each layer compacted to the required density using a large vibratory roller (minimum 5-ton static weight). Building area fills should be compacted to a minimum of 95 percent of the maximum Modified Proctor density (ASTM D 1557). The compaction criterion in parking and roadway areas may consist of 90 percent, except in the uppermost 2 feet where 95 percent is recommended for good pavement support.

In parking and roadway areas where a minimum of 3 feet of fill is required to reach finished subgrade elevation, the topsoil and organic material need not be excavated.

Due to the dense to very dense condition of the subsurface soils within the proposed road cut adjacent to Route 312, large bulldozers equipped with rippers may be required to loosen the dense soil matrix in order to facilitate excavation.

Preliminary Foundation Design Criteria

We anticipate that allowable bearing capacities on the order of 2 to 6 tsf will be available depending on the specific building location and

planned foundation elevations. In general, the compacted fills will be suitable for 2 to 3 tsf bearing and the natural soils for 3 to 6 tsf.

Exterior footings and those footings potentially exposed to frost action should be founded a minimum of 4.0 feet below adjacent exterior grade. Interior footings in heated areas may be founded at conventional depths below the floor slab.

FUTURE STUDIES

Additional subsurface exploration will be required for each major structure planned. On the basis of our preliminary study, we anticipate that test pits with a few borings will give us sufficient information to develop final recommendations for the proposed structures. In addition, once the proposed grading has been established, it would be prudent to install PVC standpipes to monitor the groundwater levels within the deeper cut areas.

If you have any questions, please feel free to contact us.

Very truly yours,

SESI CONSULTING ENGINEERS

Kenneth J. Quazza, P.E.

William J. St. Pierre, P.E.

KJQ:WSP:tmp

APPENDIX G-1

BIOLOGICAL ASSESSMENT REPORT
THE NORTHEAST INTERSTATE LOGISTICS CENTER

Pugsley Road and NYS Route 312
Town of Southeast, Putnam County, New York
November 2017 – Revised March 2018

PREPARED FOR:
Putnam Seabury Partners, L.P.
590 Madison Avenue, Suite 2100
New York, New York 10022

PREPARED BY:
EVANS ASSOCIATES ENVIRONMENTAL CONSULTING, INC.
205 AMITY ROAD, BETHANY, CT 06524

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INTRODUCTION

Purpose of Report

This report was created in support of an application for a development that is being prepared by JMC Site Development Consultants for the Applicant/Owner: Putnam Seabury Partners, LP. The site is proposed as the Northeast Interstate Logistics Center but is commonly known as Campus at Field Corners. The purpose of this report is to present current wetland delineation and habitat information, along with current biological information about the upland habitats. In addition, potential wetland and upland impacts from the proposed project will be discussed, along with suggestions for avoiding significant adverse impacts. Impacts specific to the Northern Long-Eared Bat and the Bog Turtle will also be covered, as both have been designated as Threatened species by the US Fish & Wildlife Service, under the Endangered Species Act.

Site Location, Description, and History

The site is located to the northwest of Interstate 84 and NYS 312, and comprises several parcels totaling approximately 327 acres of which 236 are proposed to be developed for the Northeast Interstate Logistics Center. The parcels encompass or are adjacent to Barrett Road and Pugsley Road (the portion of Pugsley Road that is north of Barrett Road is also referred to as Fields Corner Road). The surrounding areas contain a variety of land uses. In addition to interstate, state, and local roads, surroundings also include farms, residential homes or complexes, shopping centers/office buildings, a golf course, the Middle Branch Croton River, as well as undeveloped, mainly forested parcels.

The uplands on the site were originally maintained as agricultural pastures, after use as a dairy farm, but are now mostly overgrown with trees and invasive shrubs and vines (i.e. autumn olive and multiflora rose shrubs, and mile-a-minute and oriental bittersweet vines, among others). No buildings remain on the property, although roads and utility poles are still present. Portions of DEC Freshwater Wetlands LC-18 and LC-28 are located on the subject property. The on-site portions of DEC wetland LC-18 comprise two wetlands in the center of the property, west of Pugsley Road and Fields Corner Road; the two wetlands are connected by a culvert beneath Barrett Road. The on-site portion of DEC Freshwater Wetland LC-28 is located in the southeast corner of the site, east of Pugsley Road, and north of Route 312. The watercourses associated with these three wetlands are Class C.

The site was formally known as Campus at Field Corners, a mixed residential/commercial development, and wetlands were delineated in 2004 for that project. These previously-delineated wetland lines were re-staked by the surveyors during the summer of 2017, and both the Town Wetland Consultant (Steve Coleman) and DEC staff (Kelly McKean) have re-confirmed the wetland boundaries as accurate in 2018.

The development that is currently proposed for the site involves large storage warehouses that are proposed to be located in the uplands of the site.

ECOLOGICAL COMMUNITIES

The ecological communities on the site were classified in accordance with *Ecological Communities of New York State*, (New York Natural Heritage Program, second edition, 2014). Field investigations to characterize the habitats of the site were most-recently conducted by Evans Associates Environmental Consulting, Inc. (Evans Associates) during the summer and fall of 2017 and the winter of 2018. Upland and wetland communities are present on site. The New York Natural Heritage Program (NYNHP) assigns each natural ecological community a numerical rank based on the global and state rarity of the community. Cultural (human-impact influenced) communities are not ranked.

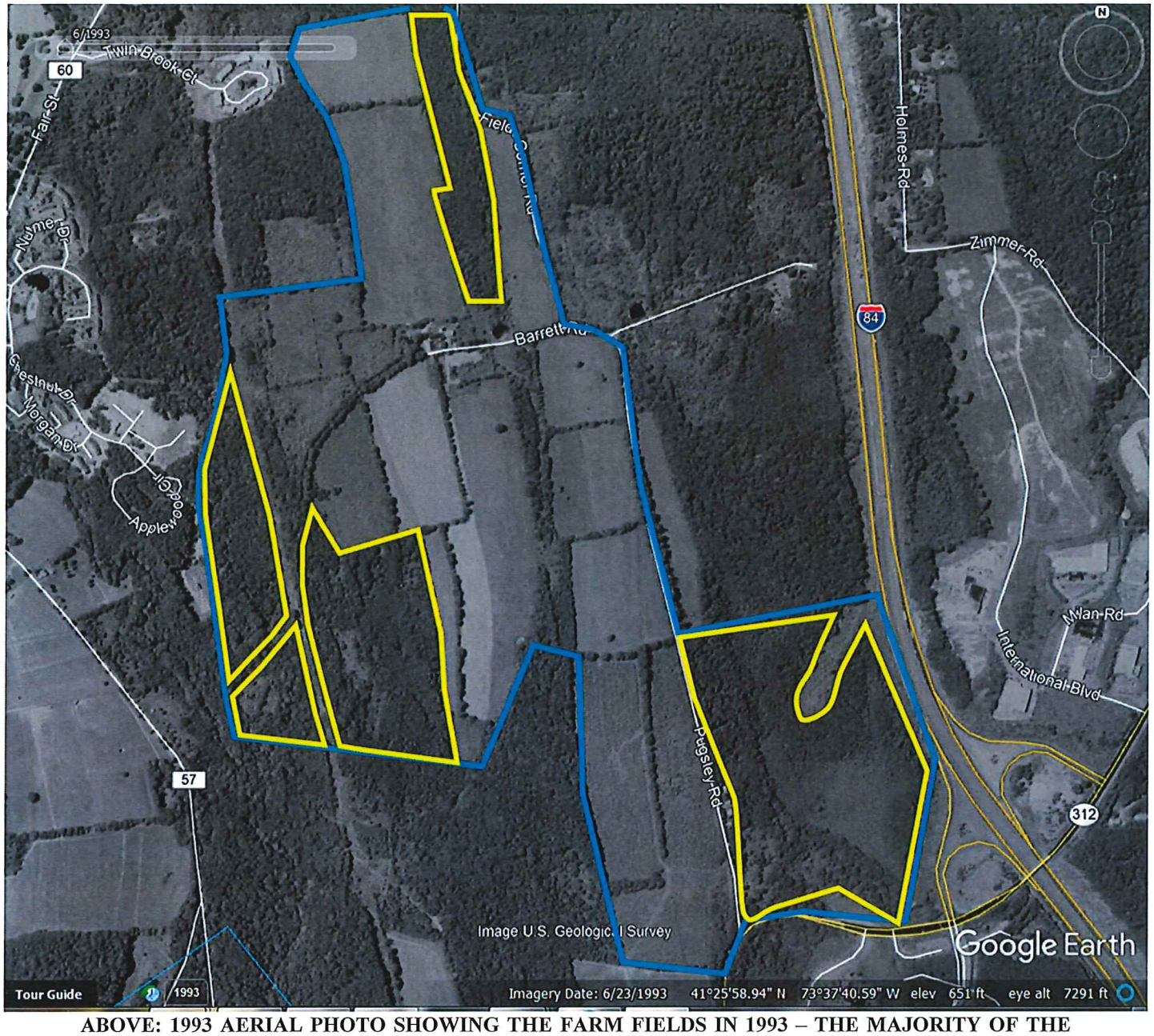
Unlike individual species that are given the status of legally protected endangered or threatened, the NYNHP ecological community ranking system carries no legal weight. The global (G) rank reflects the rarity of the community throughout the world and the state (S) rank reflects the rarity of the community within New York State. The NYNHP rankings range from 1 (G1 and S1) for very rare communities to 5 (G5 and S5) for communities that are common and demonstrably secure. The ecological communities on site are represented by categories within the Terrestrial (upland) and Palustrine (wetland) systems. The vegetative habitats on site are identified and discussed in detail below; the NY NHP rank of each natural community is also included in the discussion.

Upland Vegetative Habitat

The majority of the site has been impacted by human activity (cultural effects) in the past, including dairy farming and the agricultural field cultivation. The aerial photo below shows the farm fields in 1993. The blue line represents the approximate property boundary; the yellow outlines represent less-altered habitats, with wetlands comprising much of these areas. The majority of the remainder of the site was completely clear in 1993.

These altered habitats (fields) dominate the site uplands and would be designated Terrestrial Cultural if they had been maintained. Because these areas have been abandoned for many years, the cleared areas have progressed to overgrown, virtually inaccessible shrub/vine habitats with many invasive and otherwise undesirable vegetative species. These areas now fall under the categories Successional Old Field and Successional Shrubland, although dominated by invasive species. There are mature hardwood trees along the former field edges, but many of these are now overgrown with vines and are in decline.

The areas of remaining natural communities (those relatively unaltered by human activity) occurring outside of wetlands (Palustrine System) are very small. The small amount of relatively unaltered uplands is designated Forested Uplands within the Terrestrial System.



ABOVE: 1993 AERIAL PHOTO SHOWING THE FARM FIELDS IN 1993 – THE MAJORITY OF THE SITE UPLANDS ARE CLEARED. THE BLUE OUTLINE REPRESENTS THE APPROXIMATE PROPERTY BOUNDARY; THE YELLOW OUTLINES REPRESENT LESS-ALTERED HABITATS, WITH WETLANDS COMPRISING MUCH OF THESE AREAS.

Terrestrial System

The terrestrial system broadly defines upland habitats. These habitats have non-hydric soils and vegetative cover that is never predominantly hydrophytic, even if the soil surface is occasionally or seasonally flooded or saturated.

Terrestrial Cultural

This subsystem includes communities that are "…modified by human influence to such a degree that the physical conformation of the substrate, or the biological composition of the resident community is substantially different from the character of the substrate or community." (Edinger et. al., 2014)

As discussed, almost the entire site was cleared and/or used as some form of agricultural land up until at least the late 1990's. These uses may have included **cropland/row crops** (agricultural fields planted in row crops such as corn, potatoes, and soybeans), **cropland/field crops** (agricultural fields planted in field crops such as alfalfa, wheat, timothy, and oats, including hayfields that are rotated to pasture.), and/or **pastureland** (agricultural land permanently maintained, or recently abandoned, as a pasture area for livestock.

Open Uplands

This subsystem includes upland communities with less than 25% canopy cover of trees; the dominant species in these communities are shrubs, herbs, or cryptogammic plants (mosses, lichens, etc.). The three types are grasslands, meadows, and shrublands.

Because many years have passed since the active agricultural activities have stopped on site, the fields have begun to undergo natural succession. However, although Open Lands are listed under natural (non-cultural) communities, the site is now dominated by invasive species, and does not appear to be reverting back to a natural habitat.

The majority of the formerly-cleared areas are now dominated by the invasive species such as Russian olive *(Elaeagnus angustifolia)* and autumn olive *(Elaeagnus umbellata)* shrubs. These areas are designated as **successional shrublands** which are sites that have been cleared (for farming, logging, development, etc.) or otherwise disturbed; this community has at least 50% cover of shrubs. The Russian and autumn olive shrubs (some of which are tall shrub/small tree-sized) form dense stands which do not allow many other species of vegetation to thrive. Other vegetation includes multiflora rose *(Rosa multiflora)* and Japanese barberry *(Berberis thunbergii)* shrubs and Asiatic bittersweet *(Celastrus orbiculata)* vines. An occasional mature sugar maple *(Acer saccharum)*, red maple *(Acer rubrum)*, or oak *(Quercus sp.)* tree may also occur in some areas.

The former fields that are not yet dominated by shrubs are **successional old fields**, defined as meadows dominated by forbs and grasses that occur on sites that were cleared and plowed (for farming or development), and then abandoned. These fields are mowed at intervals of likely once per year or less. On this site, these areas were likely mowed occasionally for site access, and are mainly located off access points from Barrett Road.

The former field located to the south of Barrett Road and to the west of Pugsley Road contains an area that appears to have been mowed to preserve access to the site. This area would qualify as successional old field, however it has been completely over-taken by the invasive vine mile-a-minute *(Persicaria perfoliata)*. The vine growth in this area is so dense that it impedes wildlife movement and has completely "carpeted" the area and is growing up over any remaining vegetation, including the Russian and autumn olive trees.

Both successional shrublands and successional old field habitats are ranked G5 and S5, meaning these communities are demonstrably secure globally, though they may be quite rare in parts of their range, especially at the periphery, and demonstrably secure in New York State.

ABOVE: OVERGROWTH OF TREES, SHRUBS, VINES, AND HERBACEOUS PLANTS IN FORMER FIELDS. RIGHT: MILE-A-MINUTE VINE OVERGROWTH. PHOTOS TAKEN 8/24/2017.

Forested Uplands

This subsystem includes natural upland vegetative communities with more than 60% canopy cover of trees, and with less than 50% rock outcrop or shallow to bedrock soils. This category is not defined in more detail because the forested uplands are only found in the few areas of the site that had not been cleared in the recent past and which do not contain wetlands (which are discussed later in this report). The forested uplands are mainly limited to the wooded buffers adjacent to some of the wetland areas, and to rows along stonewalls and/or between fields. Because these areas are not defined to the subcategory, no ranking can be provided. However, based on the species of trees present, this vegetative community would be considered common and secure.

Vegetation in the forested uplands on site includes sugar maple *(Acer saccharum)*, red maple, shag-bark hickory *(Carya ovata)*, and oak *(Quercus sp.)* trees and saplings, multiflora rose *(Rosa multiflora)*, Tartarian honeysuckle *(Lonicera tatarica)*, and Japanese barberry *(Berberis thunbergii)* shrubs, poison ivy *(Toxicodendron radicans)*, Asiatic bittersweet *(Celastrus orbiculata)*, grape *(Vitis sp.)*, and Virginia creeper *(Parthenocissus quinquefolia)* vines, along with garlic mustard *(Alliaria petiolata)*, milkweed *(Asclepias sp.)*, and goldenrod *(Solidago sp.)*

SMALL AREA OF FORESTED UPLANDS LOCATED AT THE SOUTH END OF WETLAND 4. PHOTO TAKEN 8/24/2017.

Wetland Vegetative Habitat

The wetlands on the property contain a variety of vegetative habitats that are best represented by the palustrine system. Wetland 4 and Wetland 5 are mainly deciduous, wooded swamps that are seasonally or intermittently ponded, with the exception of the farm pond within Wetland 5 that likely remains ponded year-round. Wetland 4 contains a small area at its north end that is wetter than the remainder of the wetland and contains emergent wetland habitat; Wetland 4 transitions to a well-defined drainage channel, lacking streamside wetlands, that exits the site to the south. Wetland 6 comprises deciduous wooded swamp, shrub swamp, and emergent marsh habitat.

Palustrine System

The palustrine system describes non-tidal, perennial wetlands characterized by emergent vegetation. This system includes wetlands permanently saturated by seepage, permanently flooded wetlands, and wetlands that are seasonally or intermittently flooded, as long as the vegetation is predominantly hydrophytic and soils are hydric.

Forested Mineral Soil Wetlands

This subsystem includes seasonally flooded forests, and permanently flooded or saturated swamps. These forests and swamps typically have at least 50% canopy cover of trees. Wetland 4, Wetland 5 and portions of Wetland 6 have vegetative communities that fall into this category as a **red maple-hardwood swamp.** Red maple-hardwood swamps occur in poorly drained depressions and drainageways, and can be permanently saturated or seasonally flooded/wet with hummocks and hollows. The trunks of maples are typically single-trunked unlike those of floodplain forests with multiple trunks. Other tree species may also be present. The shrub layer is usually well-developed and may be quite dense, and the herbaceous layer may be quite diverse and is often dominated by ferns. This is a broadly defined community with several variants. This community is distributed throughout New York State. The red maple-hardwood swamp community is ranked G5 S4S5 by the NYNHP, meaning that it is demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery, and apparently to demonstrably secure in New York State.

Wetland 4 and Wetland 5 have mainly mineral soil substrates. Vegetation in these wetlands includes red maple *(Acer rubrum)*, American elm *(Ulmus americana)*, and green ash *(Fraxinus pennsylvanica)* trees and saplings, multiflora rose *(Rosa multiflora)*, silky dogwood *(Cornus amomum)*, Japanese barberry *(Berberis thunbergii)*, and spicebush *(Lindera benzoin)* shrubs, Asiatic bittersweet *(Celastrus orbiculata)*, Virginia creeper *(Parthenocissus quinquefolia)*, and poison ivy *(Toxicodendron radicans)* vines, along with skunk cabbage *(Symplocarpus foetidus)*, tussock sedge *(Carex stricta)*, jewelweed *(Impatiens capensis)*, clearweed *(Pilea pumila)*, goldenrod *(Solidago sp.)*, cinnamon fern *(Osmunda cinnamomea)*, Japanese stilt-grass *(Microstegium vimineum)*, sensitive fern *(Onoclea sensibilis)*, and garlic mustard *(Alliaria petiolata)*. Additional vegetation in the wetter portions of the wetlands (north end of Wetland 4, and farm pond in Wetland 5) includes common reed *(Phragmites australis)* and purple loosestrife *(Lythrum salicaria)*.

RED MAPLE-HARDWOOD SWAMP HABITAT IN WETLAND 4 (ABOVE, TAKEN 8/24/17), AND WETLAND 5 (BELOW, TAKEN 7/25/17).

Open Mineral Soil Wetlands

This subsystem includes wetlands with less than 50% canopy cover of trees; the dominant vegetation may include shrubs or herbs. Substrates range from mineral soils or bedrock to well-decomposed organic soils (muck). A small area at the north end of Wetland 4 contains this habitat (shallow emergent marsh). Wetland 6 contains shallow emergent marsh and shrub swamp habitat.

Shallow emergent marsh is a marsh meadow community that occurs on mineral soil or deep muck soils, and is permanently saturated and seasonally flooded. Water depths may range from 6 inches to 3+ feet during flood stages, but the water level usually drops by mid to late summer and the substrate is exposed during an average year. This is a very broadly defined wetland type; shallow emergent marshes are very common and quite variable. The shallow emergent marsh is ranked G5 and S5, meaning it is demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery, and demonstrably secure in New York State.

The small area of emergent habitat in Wetland 4 contains common reed and purple loosestrife adjacent to Barrett Road, and just to the south is an area of tussock sedge, arrow-leaf tearthumb *(Polygonum sagittatum)*, blue vervain *(Verbena hastata)*, and goldenrod *(Solidago sp.)*. Wetland 4 contains mainly mineral soils, with some muck accumulating in the wetter areas.

The majority of Wetland 6 contains emergent meadow habitat and organic (mucky) soils.

Emergent vegetation in Wetland 6 (taken 7/25/2017).

Vegetation in Wetland 6 includes jewelweed, halberd-leaf tearthumb *(Polygonum arifolium)*, arrow-leaf tearthumb, skunk cabbage, tussock sedge, manna grass *(Glyceria sp.)*, cinnamon fern, sensitive fern, false nettle *(Boehmeria cylindrica)*, and sedges *(Carex sp.)*.

Some of this emergent habitat has been encroached upon by shrubs and red maple saplings, and has become shrub swamp and red maple-hardwood swamp (discussed earlier in this report) habitat. A **shrub swamp** is an inland wetland dominated by tall shrubs that occurs as a transition zone between the emergent habitat and the upland community. The wetland substrate is mineral soil or muck. Shrub swamps are very common and quite variable; this is a very broadly defined type that includes several distinct communities and many intermediates. These swamps may be co-dominated by a mixture of species, or have a single dominant shrub species.

Shrubs and saplings in Wetland 6. Taken July 25, 2017.

On-Site Soils

Upland soils on the site are mapped[1] as Paxton and Woodbridge loams. Paxon loam is very well drained and Woodbridge loam is moderately well drained. These soils are found in the topo-drainage sequence with the somewhat poorly to poorly drained Ridgebury loam. All three soils are very deep to bedrock, and are formed in lodgment till (on site as a drumlin glacial feature). Paxton and Woodbridge loams are moderately deep to a dense layer, and Ridgebury is shallow to a densic contact. Other wetland soils include the mineral soils Leicester loam and Sun loam, and the organic soils Catden muck and Natchaug muck (formerly Carlisle muck and Palms muck), none of which have a densic contact.

WILDLIFE HABITAT AND ANTICIPATED SPECIES

Habitat Description

The site uplands are mainly successional young trees, along with invasive shrubs and vines that dominate the previously farmed fields. Despite the large land area, the upland habitats and cover types on site provide limited habitat for large mammals (other than white-tail deer) which require more open understory for travel and feeding. However, the dense shrub cover now found in the uplands provides excellent habitat for nesting song birds and small mammals.

The wooded cover types (the forested uplands and the red maple-hardwood swamp) provide nesting and food opportunities for a variety of species. Oak, beech, and hickory trees provide mast (food) which is used by many species including deer, wild turkey, squirrels, chipmunks, and mice. In addition, any dead-and-down wood and standing dead trees (snags) within the wooded cover types can enhance the habitat value for species such as woodpeckers, cavity nesters, amphibians (some of which live beneath rotting logs), and furbearing animals which use tree cavities. Some trees in the uplands may provide roosting habitat for bats, mainly along the edge of the open areas, where solar exposure is possible and insects are readily available for food.

The wetlands are sustained mainly by groundwater (seeps) and some stormwater runoff. Portions of these wetlands pond long enough to provide ideal habitat for wetland-dependent amphibians such as frogs and salamanders. Portions of the wetland that remain at least temporarily ponded or flowing could provide an intermittent source of drinking water for wildlife.

The area of the site proposed for development has a limited ability to support less disturbance-tolerant species of wildlife that require large blocks of undisturbed land (such as forest interior bird species) due to its history of disturbance (farming) and it continued degradation from invasive plant succession. This area also has limited use as a wildlife corridor, as it has Interstate I-84 to the east, and NYS Route 312 to the south. For these reasons, species that are expected to occur in the on-site uplands are those species that are somewhat to very tolerant of human disturbance and are capable of using a variety of habitats. No unique or rare habitats were identified, with the exception of Wetland 6 (DEC Freshwater Wetland LC-28) and most species that are anticipated to occur on the site are species common to Putnam County.

[1] Soils information taken from: Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed May 9, 2017.

Faunal Species Evaluation

The animals found in, or expected to be found in, habitats on or near the site are summarized in the table at the end of this section, followed by a discussion of potential protected species.

Mammals

Direct observations of animals or evidence of animals (e.g., tracks, nests, and scat) were made during the on-site field visits. No species-specific mammal surveys or trapping were conducted. *New England Wildlife: Habitat, Natural History and Distribution* (DeGraaf and Yamasaki, 2001) was reviewed in order to assess what species of mammals could potentially be found in the habitat that is present. White-tailed deer (*Odocoileus virginianus*) and Eastern coyote *(Canis latrans)* populations are well established in the vicinity and evidence of these species were present on site. Other mammals that are common to the upland forest habitat include raccoon (*Procyon lotor*), gray squirrel (*Sciurus carolinensis*), eastern chipmunk (*Tamius straiatus*), Virginia opossum (*Didelphis virginiana*), striped skunk (*Mephitis mephitis*), rabbits (*Sylvilagus* spp.), white-footed mouse (*Peromyscus leucopus*), voles (*Microtis spp.)* and moles (*Scalopus aquaticus* or *Condylura cristata*). Trees and shrubs (and their nuts and fruits) provide a food source, while perennial and intermittent streams can provide a drinking water source for a variety of mammal species. Some trees in the uplands may provide roosting habitat for bats, mainly along the edge of the open/wetland areas where solar exposure is possible, and an abundance of insects would be available for food. All mammals documented as occurring on, or that are anticipated to occur on, the site are species that are relatively tolerant of human disturbance, do not require large blocks of unfragmented land, and are common to Putnam County.

Birds

The Second Atlas of Breeding Birds in New York State (Cornell University, 2008) was reviewed for the data collected between 2000 and 2005 for Survey Block 6058B, where the site is located. The variety of habitat types on the site provide suitable nesting opportunities for a wide variety of birds, including song birds and raptors.

Reptiles and Amphibians

Amphibian and reptile field surveys were not conducted, although a careful evaluation of the wetland system east of Pugsley Road (NYS DEC Wetland LC-28, designated as Wetland 6 on the site) was made in July of 2017 to determine if the wetland contained suitable habitat for Bog Turtles. The interior portion of that wetland was found contain suitable habitat (hydrology and soils) for Bog Turtles, as seen in the photographs earlier in this report. Many other species of amphibians and reptiles require an open canopy, such as exists in this wetland complex, for basking and temperature regulation, and are assumed to be present on the site.

Amphibian and reptile species that are known to occur in the vicinity of the site were determined by reviewing *Amphibians and Reptiles of Connecticut and Adjacent Regions* (Klemens, 1993) along with data gathered for the *New York State Amphibian and Reptile Atlas Project* (NYS DEC, 1999).

Protected Species

The potential for Threatened, Endangered, or candidate species (in accordance with the Endangered Species Act) to occur on the site was assessed by contacting the United States Fish and Wildlife Service (US F&WS) for a list of federally-listed species for the site. In addition, information from the New York Natural Heritage Program (NYNHP) was assessed via the DEP NY Nature Explorer website (http://www.dec.ny.gov/natureexplorer/app/location/town/).

The US F&WS provides an Information for Planning and Conservation (IPaC) report of federally-listed endangered and threatened species and candidate species that may occur on or near a site. An online request was made for the subject property. The IPaC report, dated September 13, 2017, (a copy of which report is included in the attachments) contains three species: Indiana Bat (*Myotis sodalis*), Northern Long-eared Bat (*Myotis septentrionalis*), and Bog Turtle (*Glyptemys muhlenbergii*). However, the site was noted to be outside of the habitat range for the Indiana Bat.

A report of the NYNHP records for the Town of Southeast indicated several animal and plant species, and natural communities which are State protected or are of State conservation concern. None of the listed species were shown in the vicinity of the site. The locations of the species/communities are on the opposite (east) side of Interstate I-84, or in the southwest corner of the town. However, the Northern Long-eared Bat is a state-listed Threatened species, is listed in the NYNHP records for the County of Putnam, and DEC listings of Northern Long-eared Bat occurrences by Town does include the Town of Southeast.

The protected species listed above that could be present on the site, Northern Long-eared Bat and Bog Turtle, are discussed below. Their habitat requirements, along with regulations and recommendations to avoid potential impacts to these species, are also discussed.

Northern Long-eared Bat

The Northern Long-eared Bat *(Myotis septentrionalis*), also referred to as the northern myotis, is a Federal and State listed Threatened species. This species has a range that includes forested areas over much of the eastern and north-central United States and Canada, including all of New York State. The Northern Long-eared Bat is primarily associated with uplands and mature interior forest habitat, but will utilize a diversity of forest habitats for roosting, foraging, and raising young. In general, any tree, alive or dead, large enough to have a cavity or that has loose bark may be utilized for roosting or rearing young. The bats feed primarily on flying insects. Reproduction and hibernation occur during the late fall and winter in and near hibernacula consisting of caves or mines.

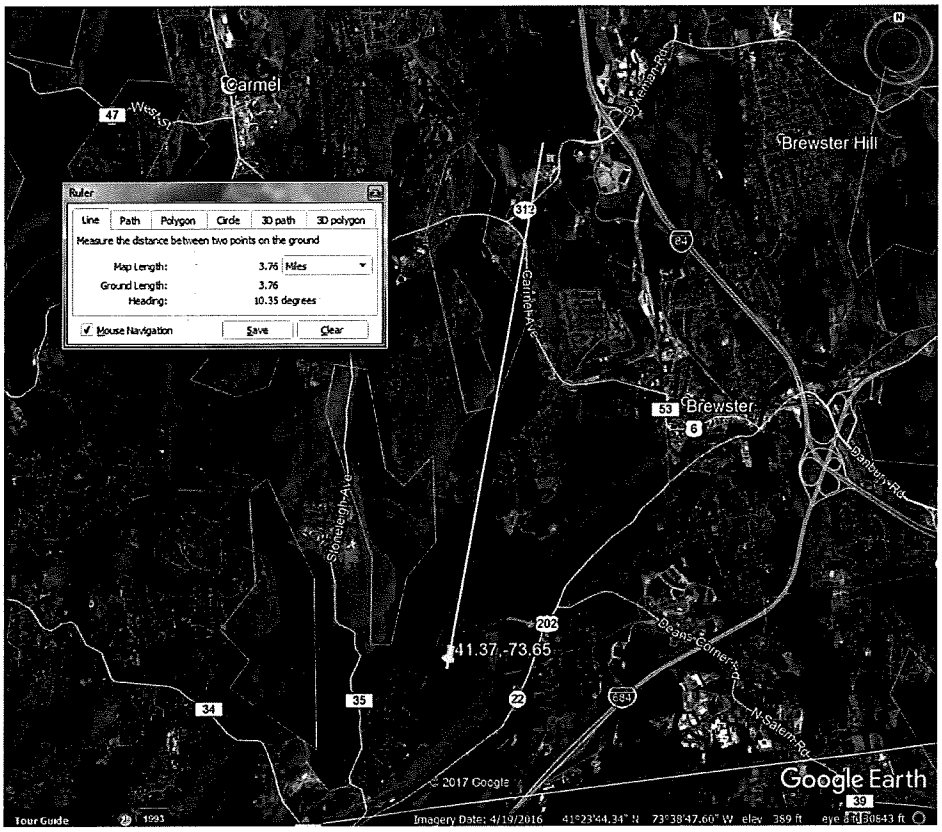
The Northern Long-eared Bat has a range that includes much of the eastern and north-central United States (which includes New York State). However, Northern Long-eared Bats are opportunistic in choosing summer feeding and/or roosting habitat, and they can use a variety of habitats, including those found on the site.

White-nose syndrome is by far the largest threat to this species, and the reason why this bat has been listed as Threatened at the federal level. According to the NYNHP,[2] the New York State Department of Environmental Conservation (DEC) indicates that the populations of this once-common species are estimated to have declined by 98% since 2006. White-nose

[2] NYNHP Conservation Guide - Northern Long-eared Bat (*Myotis septentrionalis*), last updated on Oct 30, 2015

syndrome is currently found in 33[3] states (and five Canadian provinces), and is continuing to spread. The US F&WS lists hibernacula disturbance, maternity roost disturbance, and direct injury or mortality to the bats as other threats secondary to white nose syndrome.

According to a map prepared by the DEC, Northern Long-eared Bat Occurrences by Town,[4] the Town of Southeast contains confirmed winter occurrences of Northern Long-eared Bats (which would indicate the presence of one or more hibernacula). The US F&WS lists approximate latitude/longitude measurements of known hibernacula.[5] The coordinates of the hibernaculum closest to the subject property was located and the distance between the two locations was found to be greater than 3.76 miles.



Distance between site and closest Northern Long-eared Bat hibernaculum (Aerial and length measurement from: Google Earth, accessed 9/20/2017)

Although there are no hibernacula, summer feeding and roosting habitat is likely to be present on or near the subject property. Therefore, the only potential threat to bats that could occur on site due to the development of the proposed project would be direct mortality of the bats if trees are removed while the bats are roosting.

The USF&WS issued a final rule for the Northern Long-eared Bat on January 13, 2016 (effective February 16, 2016). In accordance with this ruling, requirements and

[3] https://www.whitenosesyndrome.org/about/where-is-it-now, accessed October 18, 2017

[4] http://www.dec.ny.gov/animals/106090.html

[5] https://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html

recommendations were provided to avoid impacts to the Northern Lone-eared Bat.[6] In areas of the country where white-nose syndrome is present (which includes the subject property), if there are no hibernacula within a quarter mile of the site or known maternal roost trees on or within 150 feet of the site, then there would be no development restrictions at any time of year with regard to the northern long-eared bat. However, in addition to the US F&WS restrictions, the DEC has developed additional mandatory and voluntary restrictions[7] to avoid impacts during the summer months when bats may be present in roost trees. Because there is no certainty that there would not be occupied maternal roost trees, potential roost trees must not be cut down during the bat's pup rearing months (June 1 through July 31). In addition, because there is a hibernaculum within 5 miles of the site, and roosting may occur on site, an additional *optional* recommendation is to conduct any tree removal activities outside of the Northern Long-eared Bat active season (April 1-October 31), including the removal of all snag (dead standing) and cavity trees unless they are a hazard to human life and property (including the potential loss of electric service).

Bog Turtle

The Bog Turtle (*Glyptemys muhlenbergii*) is a federal-listed Threatened species and a state-listed Endangered species. The Bog Turtle is found in twelve states in the eastern United States, scattered in discrete populations from New York and Massachusetts south to southern Tennessee and Georgia. Bog Turtles inhabit a variety of wetland types throughout their range, but generally are found in small, open-canopy, herbaceous sedge meadows and fens that are bordered by more-thickly vegetated wooded areas. These open-canopy meadows and fens form the primary habitat for foraging, reproduction, and basking for this species, while nearby closed-canopy, densely-vegetated wetlands may be used for hibernation. Primary Bog Turtle habitat is typically associated with seepage or spring-fed emergent wetlands, and is often found near the headwaters of streams or small tributaries within a riparian wetland complex. This habitat is often transitional between drier upland areas and other types of wetland, such as wooded swamp or marsh. Bog Turtles will also utilize other types of wetlands as dispersal or travel corridors between their preferred habitat patches.

The primary threats to Bog Turtles in the northeast are the loss, degradation, and fragmentation of its habitat from wetland alteration, development, pollution, invasive species, and natural vegetational succession. The species is also threatened by collection for illegal wildlife trade. [8] As habitat deteriorates, Bog Turtles normally move to new areas where fire, beavers, agriculture, or other causes have created an open canopy, wet meadow habitat. Development near and within wetlands, and especially construction of roads, inhibits the ability of the turtles to move between wetlands and into new habitat patches to establish new populations. Contamination by pesticides, agricultural runoff, or industrial discharge may negatively impact the Bog Turtle directly or indirectly through impacts to its invertebrate food supply. To avoid impacts to Bog Turtles, habitat changes or encroachment

[6] Northern Long-eared Bat Project Review Fact Sheet - New York Field Office (last modified May 2016), found at: https://www.fws.gov/northeast/nyfo/es/NYSpecies.htm (accessed September 20, 2017).

[7] http://www.dec.ny.gov/animals/106090.html (Protective Measures Required for Northern Long-eared Bats When Projects Occur within Occupied Habitat)

[8] https://www.fws.gov/northeast/nyfo/es/bogturtle.htm

should be avoided, and may be regulated on the Federal, State and/or Local level. Impacts to water quality and quantity to the wetland habitat should also be avoided.

The hydrology, soils, and vegetation of the three wetlands were reviewed, and Wetland 6 (a portion of DEC Freshwater Wetland LC-28) was determined to have potential Bog Turtle habitat. A Phase I Bog Turtle Survey was conducted for Wetland 6, and is included in Appendix of this report. Although Bog Turtles were not encountered during the survey, the results of that survey indicate that there is suitable Bog Turtle habitat within Wetland 6. The habitat is located in the northern portion of the wetland and extends off site to the north. The habitat becomes less suitable in the southern portion of the wetland.

Animals Potentially Occurring at Northeast Interstate Logistics Center

MAMMALS (alphabetically by scientific name)		
Common Name	**Scientific Name**	**Notes**
Short-tailed shrew	*Blarina brevicauda*	
Eastern coyote	*Canis latrans*	1
Star-nosed mole	*Condylura cristata*	
Virginia opossum	*Didelphis virginiana*	1
Big brown bat	*Eptesicus fuscus*	
Southern flying squirrel	*Glaucomys volans*	
Bobcat	*Lynx rufus*	1
Woodchuck	*Marmota monax*	1
Fisher	*Martes pennanti*	
Striped skunk	*Mephitis mephitis*	1
Meadow vole	*Microtus pennsylvanicus*	
House mouse	*Mus musculus*	
Ermine	*Mustela erminea*	
Long tailed weasel	*Mustela frenata*	
Mink	*Mustela vison*	
Little brown myotis	*Myotis lucifugus*	
Northern myotis	*Myotis septentrionalis*	
White-tailed deer	*Odocoileus virginianus*	1
Muskrat	*Ondatra zibethicus*	
White-footed mouse	*Peromyscus leucopus*	
Raccoon	*Procyon lotor*	1
Norway rat	*Rattus norvegicus*	
Eastern mole	*Scalopus aquaticus*	
Gray squirrel	*Sciurus carolinensis*	1
Masked shrew	*Sorex cinereus*	
Water shrew	*Sorex palustris*	
Eastern cottontail	*Sylvilagus floridanus*	1
Eastern chipmunk	*Tamias striatus*	1
Black bear	*Ursus americanus*	
Gray fox	*Vrocyon cinereoargenteus*	
Red fox	*Vulpes vulpes*	1

REPTILES AND AMPHIBIANS		
Common Name	**Scientific Name**	**Notes**
Spotted salamander	*Ambystoma maculatum*	
Northern two-lined salamander	*Eurycea bislineata*	
Redback salamander	*Plethodon cinereus*	
Red-spotted newt	*Notophthalmus v. viridescens*	
Eastern American toad	*Bufo a. americanus*	1
Gray treefrog	*Hyla versicolor*	1
Northern spring peeper	*Pseudacris c. crucifer*	1
Bullfrog	*Rana catesbeiana*	1
Green frog	*Rana clamitans melonota*	1
Pickerel frog	*Rana palustris*	
Northern leopard frog	*Rana pipiens*	
Wood frog	*Rana sylvatica*	1
Common snapping turtle	*Chelydra s. serpentina*	1
Painted turtle	*Chrysemys picta*	
Spotted turtle	*Clemmys guttata*	
Bog turtle	*Glyptemys muhlenbergii*	
Eastern box turtle	*Terrapene c. carolina*	
Northern black racer	*Coluber c. constrictor*	
Black rat snake	*Elaphe o. obsoleta*	
Northern water snake	*Nerodia s. sipedon*	
Northern brown snake	*Storeria d. dekayi*	
Northern redbelly snake	*Storeria o. occipito-maculata*	
Eastern garter snake	*Thamnophis s. sirtalis*	1

BIRDS		
Common Name	**Scientific Name**	**Notes**
Mute Swan	*Cygnus olor*	
Canada Goose	*Branta canadensis*	1
Wood Duck	*Aix sponsa*	
Mallard	*Anas platyrhynchos*	
Mallard x Am. Black Duck Hybrid	*Anas platyrhynchos x A. rubripes*	
Great Blue Heron	*Ardea Herodias*	
Green Heron	*Butorides virescens*	
Turkey Vulture	*Cathartes aura*	1
Black Vulture	*Coragyps atratus*	
Cooper's Hawk	*Accipiter cooperii*	
Red-tailed Hawk	*Buteo jamaicensis*	1
American Kestrel	*Falco sparverius*	
Great Horned Owl	*Bubo virginianus*	
Eastern Screech-Owl	*Megascops asio*	
Killdeer	*Charadrius vociferus*	
Rock Pigeon	*Columba livia*	
Mourning Dove	*Zenaida macroura*	1
Ruby-throated Hummingbird	*Archilochus colubris*	
Ruffed Grouse	*Bonasa umbellus*	
Wild Turkey	*Meleagris gallopavo*	1
Red-bellied Woodpecker	*Melanerpes carolinus*	1
Yellow-bellied Sapsucker	*Sphyrapicus varius*	
Pileated Woodpecker	*Dryocopus pileatus*	1
Downy Woodpecker	*Picoides pubescens*	1
Hairy Woodpecker	*Picoides villosus*	1
Northern Flicker	*Colaptes auratus*	
Eastern Wood-Pewee	*Contopus virens*	
Willow Flycatcher	*Empidonax traillii*	
Eastern Phoebe	*Sayornis phoebe*	
Great Crested Flycatcher	*Myiarchus crinitus*	
Eastern Kingbird	*Tyrannus tyrannus*	
Blue-gray Gnatcatcher	*Polioptila caerulea*	
Ruby-crowned Kinglet	*Regulus calendula*	
Golden-crowned Kinglet	*Regulus satrapa*	
Yellow-throated Vireo	*Vireo flavifrons*	
Warbling Vireo	*Vireo gilvus*	
Red-eyed Vireo	*Vireo olivaceus*	
Blue Jay	*Cyanocitta cristata*	1
American Crow	*Corvus brachyrhynchos*	1
Yellow-billed Cuckoo	*Coccyzus americanus*	

BIRDS		
Common Name	**Scientific Name**	**Notes**
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*	
Barn Swallow	*Hirundo rustica*	
Tree Swallow	*Tachycineta bicolor*	
Black-capped Chickadee	*Poecile atricapillus*	1
Tufted Titmouse	*Baeolophus bicolor*	1
White-breasted Nuthatch	*Sitta carolinensis*	1
Brown Creeper	*Certhia americana*	
Carolina Wren	*Thryothorus ludovicianus*	1
House Wren	*Troglodytes aedon*	
Eastern Bluebird	*Sialia sialis*	
Veery	*Catharus fuscescens*	
Hermit Thrush	*Catharus guttatus*	
Wood Thrush	*Hylocichla mustelina*	
American Robin	*Turdus migratorius*	
Gray Catbird	*Dumetella carolinensis*	
Northern Mockingbird	*Mimus polyglottos*	1
Brown Thrasher	*Toxostoma rufum*	
European Starling	*Sturnus vulgaris*	
Cedar Waxwing	*Bombycilla cedrorum*	
Yellow Warbler	*Dendroica petechia*	
Chestnut-sided Warbler	*Dendroica pensylvanica*	
Black-throated Green Warbler	*Dendroica virens*	
Worm-eating Warbler	*Helmitheros vermivorum*	
Black-and-white Warbler	*Mniotilta varia*	
Northern Parula Warbler	*Parula americana*	
Hooded Warbler	*Wilsonia citrina*	
American Redstart	*Setophaga ruticilla*	
Ovenbird	*Seiurus aurocapilla*	
Louisiana Waterthrush	*Seiurus motacilla*	
Common Yellowthroat	*Geothlypis trichas*	
Scarlet Tanager	*Piranga olivacea*	
Eastern Towhee	*Pipilo erythrophthalmus*	
Chipping Sparrow	*Spizella passerina*	1
Field Sparrow	*Spizella pusilla*	
Song Sparrow	*Melospiza melodia*	
Northern Cardinal	*Cardinalis cardinalis*	1
Rose-breasted Grosbeak	*Pheucticus ludovicianus*	
Indigo Bunting	*Passerina cyanea*	
Red-winged Blackbird	*Agelaius phoeniceus*	1
Common Grackle	*Quiscalus quiscula*	
Brown-headed Cowbird	*Molothrus ater*	
Baltimore Oriole	*Icterus galbula*	

BIRDS		
Common Name	**Scientific Name**	**Notes**
Purple Finch	*Carpodacus purpureus*	
House Finch	*Carpodacus mexicanus*	1
American Goldfinch	*Carduelis tristis*	1
House Sparrow	*Passer domesticus*	
American Tree Sparrow	*Spizella arborea*	

Note: Species documented on site during the 2017 – 2018 field investigations are indicated by a "1". Other species are potential residents or migratory on the site.

REFERENCES

Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological Communities of New York State*. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

New York Natural Heritage Program. 2013. Online Conservation Guide for Bog Turtle *(Glyptemys muhlenbergii)*. Available from: www.acris.nynhp.org/guide.php?id=7507

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed June 6, 2017.

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U.S. Fish and Wildlife Service. Northern Long-Eared Bat Fact Sheet, updated April 2015. Online at: https://www.fws.gov/Midwest/Endangered/mammals/nleb/nlebFactSheet.html. Accessed October 18, 2017.

U.S. Fish and Wildlife Service: Information, Planning, and Conservation System (IPAC). Natural Resources of Concern. Available online at http://ecos.fws.gov/IPAC. Official list requested/received on September 13, 2017.

U.S. Fish and Wildlife Service Document: Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions, dated January 5, 2016; found online at: https://www.fws.gov/midwest/endangered/mammals/nleb/s7.html

ATTACHMENTS

USFWS IPaC Report
Bog Turtle Phase I Survey

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9349
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

In Reply Refer To:
Consultation Code: 05E1NY00-2017-SLI-3341
Event Code: 05E1NY00-2017-E-09675
Project Name: Pugsley Road

September 13, 2017

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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 (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. 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 ESA, 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 site 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. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: http://www.fws.gov/northeast/nyfo/es/section7.htm

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (

http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Services wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

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 ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

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 13045-9349
(607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2017-SLI-3341

Event Code: 05E1NY00-2017-E-09675

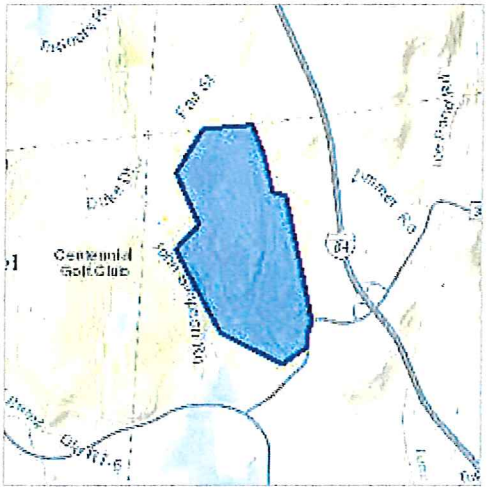
Project Name: Pugsley Road

Project Type: DEVELOPMENT

Project Description: Potential development

Project Location:

Approximate location of the project can be viewed in Google Maps:
https://www.google.com/maps/place/41.43033888479614N73.64255874920798W



Counties: Putnam, NY

Endangered Species Act Species

There is a total of 3 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. 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.

Mammals

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final designated** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Reptiles

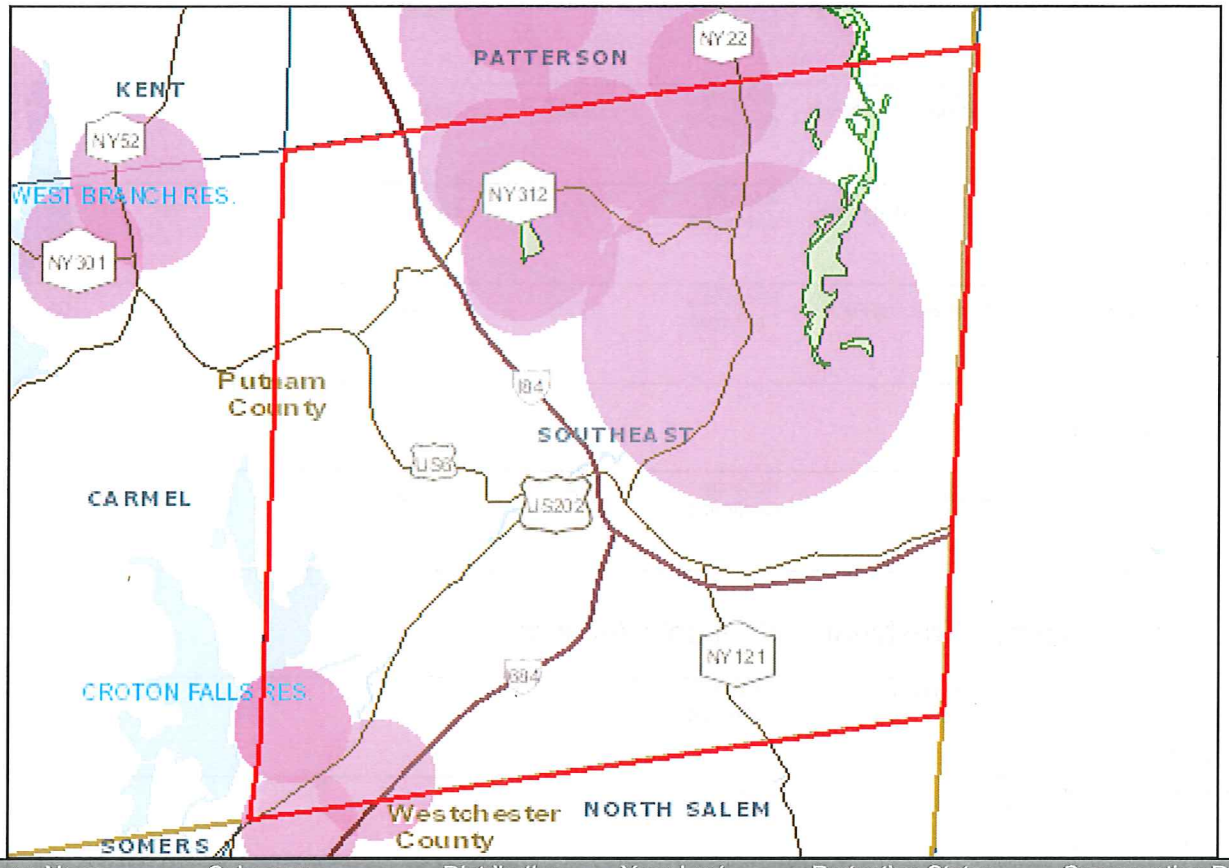
NAME	STATUS
Bog Turtle *Clemmys muhlenbergii* Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/182/office/52410.pdf Habitat assessment guidelines: https://ecos.fws.gov/ipac/guideline/assessment/population/182/office/52410.pdf	Threatened

Critical habitats

There are no critical habitats within your project area under this office's jurisdiction.

New York Nature Explorer
Town Results Report

Criteria: Town: Southeast



Common Name	Subgroup	Distribution Status	Year Last Documente	Protection Status State	Protection Status Federal	Conservation Rank State	Conservation Rank Global
Town: Southeast							
Animal: Mammals							
New England Cottontail *Sylvilagus transitionalis*	Rabbits and Hares	Recently Confirmed	2003	Special Concern		S1S2	G3
Animal: Amphibians							
Atlantic Coast Leopard Frog *Lithobates kauffeldi*	Frogs and Toads	Recently Confirmed	2010			S1S2	GNR
Plant: Flowering Plants							

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documente	Protection Status State	Protection Status Federal	Conservation Rank State	Conservation Rank Global
Featherfoil *Hottonia inflata*	Other Flowering Plants	Historically Confirmed		Threatened		S2	G4
Lyre-leaf Sage *Salvia lyrata*	Other Flowering Plants	Historically Confirmed		Endangered		SH	G5
Rough Avens *Geum virginianum*	Other Flowering Plants	Recently Confirmed	1993	Threatened		S2	G5
Shining Bedstraw *Galium concinnum*	Other Flowering Plants	Recently Confirmed	1999	Endangered		S1	G5
Woodland Agrimony *Agrimonia rostellata*	Other Flowering Plants	Historically Confirmed	1916	Threatened		S2	G5

Plant: Conifers

Atlantic White Cedar *Chamaecyparis thyoides*	Conifers	Recently Confirmed	2001	Threatened		S2	G4

Natural Community: Freshwater Nontidal Wetlands

Floodplain Forest *Floodplain forest*	Forested Mineral Soil Wetlands	Recently Confirmed	1997			S2S3	G3G4
Inland Atlantic White Cedar Swamp *Inland Atlantic white cedar swamp*	Forested Peatlands	Recently Confirmed	2001			S1	G2G3
Red Maple-Hardwood Swamp *Red maple-hardwood swamp*	Forested Mineral Soil Wetlands	Recently Confirmed	1997			S4S5	G5
Rich Graminoid Fen *Rich graminoid fen*	Open Peatlands	Recently Confirmed	2008			S1S2	G3

Note: Restricted plants and animals may also have also been documented in one or more of these Towns or Cities, but are not listed in these results. This application does not provide information at the level of Town or City on state-listed animals and on other sensitive animals and plants. A list of the restricted animals and plants documented in the corresponding county (or counties) can be obtained via the County link(s) on the original Town Search Results page. Any individual plant or animal on this county's restricted list may or may not occur in this particular Town or City.

This list only includes records of rare species and significant natural communities from the databases of the NY Natural Heritage Program. This list is not a definitive statement about the presence or absence of all plants and animals, including rare or state-listed species, or of all significant natural communities. For most areas, comprehensive field surveys have not been conducted, and this list should not be considered a substitute for on-site surveys.

USFWS / PFBC Bog Turtle Habitat Evaluation Field Form[1]

(revised 06/01/2006)

Project/Property Name: Northeast Interstate Logistics Center

Project type: Development of storage facilities (warehouses)

Applicant/Landowner Name: Putnam Seabury Partners, L.P.

County: Putnam Quad: Lake Carmel Township/Municipality: Southest

PNDI # _____ Potential conflict with USFWS species? ☑Y ☐N

ACTION AREA[2]

Action area size: ~236 acres **Does the Phase 1 survey include all wetlands in the action area?** ☑**Y** ☐**N**[3]

WETLAND ID: FW LC-28 **PHOTOS TAKEN:** ☑**Yes** ☐**No** **WETLAND SIZE:** ~36 **acres**

Wetland size estimation – If actual acreage is not known at time of investigation, check one:

☐< 0.1 acre ☐0.1-0.5 acre ☐>0.5 to <1 acre ☐1-2 acres ☐2-4 acres ☐5+ acres ☐10+ acres

WETLAND LOCATION: Lat 41.428284 Long -73.633568

(approximate center of wetland) GPS Datum (check one): ☐NAD 27 ☑NAD 83 ☐WGS 84

SURVEY CONDITIONS & LIMITATIONS

Date of survey: July 25, 2017 Time In: 10:30 Time Out: 2:00

Last precipitation: ☐< 24 hours ☑1-7 days ☐> 1 week ☐unknown Drought conditions? ☐Y ☑N ☐Unknown

How much of this wetland is located *off-site* (*i.e.*, outside the property boundaries or right-of-way)?

☐none of it – the entire wetland is within the property boundaries (skip next 2 questions)

☑some of it – ~10 acres or ~30 % of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the *off-site portion* was surveyed (on foot)?

☑none of it ☐all of it ☐part of it (_____% or _____ acres of the off-site portion)

How much of the *off-site portion* of this wetland is visible (*e.g.*, from the subject property or from a public road)?

☐all of it ☑part of it (at least 2 to 3 acres) ☐none of it

Are there any wetlands located off-site and close enough to be affected by this project? ☐Y ☑N ☐Unknown

If yes, *could* they be potential bog turtle habitat? ☐Y ☐N ☐Unknown

Describe surrounding landscape (wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Former agricultural pastures; now heavily overgrown with invasive trees, shrubs, and vines. Roads/highways on W, E, and S.

WETLAND CHARACTERISTICS

Wetland type(s) present and % cover: ☑PEM 15% ☑PSS 10% ☑PFO 75% ☑POW <1%

☐ Y ☐ N Are there any signs of disturbance to *hydrology* (ditching, filling, ponds, roads, etc.)? If yes, describe

_____

☐ Y ☐ N Are there any signs of disturbance to *vegetation* (mowing, pasturing, burning, etc.)? If yes, describe

_____

Project Name Northeast Interstate Logistics Center *Wetland* FW-LC-28 *(con't)*

Hydrology

☑Y ☐N Springs or seeps ☐visible or ☑likely ? Watercress present? ☐Yes ☐No
☐Y ☑N Spring houses in or adjacent to wetland?
☑Y ☐N Saturated soils present? If yes, year-round? ☑Likely ☐Unlikely ☐Unknown
☑Y ☐N Water visible on surface? Check all that apply: ☑small puddles/depressions (1" deep)
☑rivulets (1" deep) ☐larger pools/ponds (___" deep)
☐Y ☑N Evidence of flooding? If yes, describe indicators_____

Soils Mapping Unit (optional): Catden and Natchaug Muck
Field observations confirm mapped type? ☑YES ☐NO ☐Unknown

Soils – PEM Portion of Wetland			
Mucky[4]*?* ☑YES ☐NO	How much of it (PEM) is **mucky**? ☐<10% ☐10-29% ☐30-49% ☐50-70% ☑>70%	**Mucky** soils range in depth from: 6 to >12"	**Most** of the **mucky part(s)** of the wetland can be probed[5]: ☐3-5' ☐6-8' ☐9-11' ☑≥12"
Non-mucky[6]*?* ☐YES ☑NO	How much of it (PEM) is **non-mucky**? ☐<10% ☐10-29% ☐30-49% ☐50-70% ☐>70%		

Soils – PSS and PFO Portions of Wetland			
Mucky[4]*?* ☑YES ☐NO	How much of it is **mucky**? ☐<10% ☐10-29% ☑30-49% ☐50-70% ☐>70%	**Mucky** soils range in depth from: 1 to 6"	**Most** of the **mucky part(s)** of the wetland can be probed[5]: ☑3-5' ☐6-8' ☐9-11' ☐≥12"

Wetland Vegetation (characterize the wetland as a whole)
Check (X) if present (≥ 5% areal coverage), and also circle if dominant (≥ 20% coverage).

☑sedges ☑rushes ☑skunk cabbage ☑cattail ☐sweet flag ☑jewelweed ☐sphagnum moss
☑sensitive fern ☐rice cutgrass ☑tearthumb ☐reed canary grass ☑*Phragmites* ☐purple loosestrife
☐alder ☐dogwood ☑red maple ☐willow ☐poison sumac ☐multiflora rose ☐_____
Additional dominant species: cinnamon fern

Herptiles
Were any bog turtles observed? ☐YES[7] ☑NO If yes, how many? _____
Other herptiles ☐observed ☐previously observed: _____

Additional Comments/Observations: (use additional sheets if necessary)

_____
_____

INVESTIGATOR'S OPINION

☑YES ☐NO ☐UNSURE The hydrology criterion[8] for bog turtle habitat is met.
☑YES ☐NO ☐UNSURE The soils criterion[8] for bog turtle habitat is met.
☑YES ☐NO ☐UNSURE The vegetation criterion[8] for bog turtle habitat is met.
☑YES ☐NO ☐UNSURE This wetland is potential bog turtle habitat.

I certify that to the best of my knowledge, all of the information provided herein is accurate and complete.

Beth Evans — Investigator's Name (print)
Beth Evans — Investigator's Signature
3/30/2018 — Date

Contact info: Evans Associates, 205 Amity Road, Bethany CT 06524 beth@eaec-inc.com 203-393-0690 x112

ENDNOTES – Bog Turtle Habitat Evaluation Form

1 Non-agency field form, to be used by consultants with training and expertise in Phase 1 bog turtle surveys.

2 The action area includes all areas that will be affected directly or indirectly by the action and not merely the immediate area involved in the action. For example, if the proposed action is a wetland fill to accommodate access to a proposed development, then the development is included in the action area.

3 The Phase 1 survey should include all wetlands in the action area. Contact the USFWS if you have questions about the extent of the action area for a particular project.

4 Soils are considered "mucky" if one can probe them to a depth of ≥ 3".

5 Probing is done with an approximately 1" diameter, blunt-ended pole (*e.g.*, a wooden broom handle).

6 Soils are considered "non-mucky" if one can probe them to a depth of < 3".

7 Report observations of bog turtles to the USFWS and PFBC within 48 hours.

8 See "BOG TURTLE HABITAT CRITERIA" (below)

BOG TURTLE HABITAT CRITERIA

Compare your Phase 1 survey observations to the habitat criteria below.

Suitable hydrology. Bog turtle wetlands are typically spring-fed with shallow surface water or saturated soils present year-round, although in summer the wet area(s) may be restricted to near spring head(s). Typically these wetlands are interspersed with dry and wet pockets. There is often subsurface flow. In addition, shallow rivulets (less than 4 inches deep) or pseudo-rivulets are often present. In some cases, the source of a wetland's hydrology is difficult to determine because springs and seeps are not visible. However, the *influence* of springs and seeps will be apparent (*e.g.*, presence of saturated soils year-round).

Suitable soils. Usually a bottom substrate of permanently saturated organic or mineral soils. These are often soft, mucky-like soils (this does not refer to a technical soil type); you will usually sink to your ankles (3-5 inches) or deeper, although in degraded wetlands or summers of dry years this may be limited to areas near spring heads or drainage ditches. In some portions of the species' range, the soft substrate consists of scattered pockets of peat instead of muck. In the areas of the wetland where saturated soils are present, you will be able to probe them to a depth of at least 3 inches, but pockets of 5 to 12 inches are likely to be present. During drought conditions, the extent and depth of mucky soils may be dramatically reduced over non-drought conditions, with soft, saturated soils being limited to areas near springs or seeps.

Suitable vegetation. Dominant vegetation of low grasses and sedges (in emergent wetlands), often with a scrub-shrub wetland component. Common emergent vegetation includes, but is not limited to: tussock sedge (*Carex stricta*), soft rush (*Juncus effusus*), rice cut grass (*Leersia oryzoides*), sensitive fern (*Onoclea sensibilis*), tearthumbs (*Polygonum* spp.), jewelweeds (*Impatiens* spp.), arrowheads (*Saggitaria* spp.), skunk cabbage (*Symplocarpus foetidus*), panic grasses (*Panicum* spp.), other sedges (*Carex* spp.), spike rushes (*Eleocharis* spp.), grass-of-Parnassus (*Parnassia glauca*), shrubby cinquefoil (*Dasiphora fruticosa*), sweet-flag (*Acorus calamus*), and in disturbed sites, reed canary grass (*Phalaris arundinacea*) or purple loosestrife (*Lythrum salicaria*). Common scrub-shrub species include alder (*Alnus spp.*), red maple (*Acer rubrum*), willow (*Salix spp.*), tamarack (*Larix laricina*), and in disturbed sites, multiflora rose (*Rosa multiflora*). Some forested wetland habitats are suitable given hydrology, soils and/or historic land use. These forested wetlands include red maple, tamarack, and cedar swamps.

APPENDIX H-1

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT: LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE / ACCOUNT NO.
********** 45.-1-2.-1 **********				
45.-1-2.-1 Highlands Center, LLC 420 Clock Tower Commons Brewster, NY 10509	115 Independent Way 421 Restaurant Brewster Centra 373001 0460000010270020000 00705000000000000213 46-1-27.2 FRNT 705.00 DPTH ACRES 2.12 EAST-0730822 NRTH-0944289 DEED BOOK 1819 PG-372 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 223,000 1380,100 1380,100	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE DD003 Terravest Drainage FD015 Brewster Fire	1380,100 1380,100 1380,100 1.00 UN 1380,100 TO
********** 45.-1-2.-2 **********				
45.-1-2.-2 Highlands Center, LLC 420 Clock Tower Commons Brewster, NY 10509	105-111 Independent Way 452 Nbh shop ctr Brewster Centra 373001 0460000010270020000 00705000000000000213 46-1-27.2 FRNT 705.00 DPTH ACRES 0.01 EAST-0730822 NRTH-0944289 DEED BOOK 1819 PG-372 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 223,000 1369,900 1369,900	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE DD003 Terravest Drainage FD015 Brewster Fire	1369,900 1369,900 1369,900 1.00 UN 1369,900 TO
********** 45.-1-3 **********				
45.-1-3 Ninth Jam Devel LLC Attn: Vanguard Investors 224 Fifth Ave Fl 5th New York, NY 10001	185 Rt 312 464 Office bldg. Brewster Centra 373001 0460000010410010000 00209000000000000700500 46-1-41.1 FRNT 209.00 DPTH ACRES 7.00 BANK 60326 EAST-0730260 NRTH-0944300 DEED BOOK 1506 PG-6 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 533,600 3417,000 3417,000	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	3417,000 3417,000 3417,000 3417,000 TO
********** 45.-1-4 **********				
45.-1-4 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	51 Pugsley Rd 310 Res Vac Brewster Centra 373001 0180000060030000000 00245000000000004254 18-6-3 FRNT 245.00 DPTH ACRES 42.54 EAST-0728980 NRTH-0945540 DEED BOOK 962 PG-00107 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 35,190 35,200	COUNTY TAXABLE VALUE 35,190 TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	35,190 35,190 35,190 35,190 TO

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
	Barrett Rd	NON-HOMESTEAD PARCEL			45.-1-5.2
45.-1-5.2	300 Vacant Land		COUNTY TAXABLE VALUE	508,300	
Putnam Seabury Partners	Brewster Centra 373001	508,300	TOWN TAXABLE VALUE	508,300	
C/O Schulweis Realty, Inc.	0180000060010000000	508,300	SCHOOL TAXABLE VALUE	508,300	
PO Box 607	042000000000000012904		FD015 Brewster Fire	508,300 TO	
Purchase, NY 10577	18-6-1				
	ACRES 21.74				
	EAST-0727697 NRTH-0948039				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	508,300			
	Pugsley Rd	NON-HOMESTEAD PARCEL			45.-1-5.3
45.-1-5.3	300 Vacant Land		COUNTY TAXABLE VALUE	741,115	
Putnam Seabury Partners	Brewster Centra 373001	741,115	TOWN TAXABLE VALUE	741,115	
C/O Schulweis Realty, Inc.	0180000060010000000	741,115	SCHOOL TAXABLE VALUE	741,115	
PO Box 607	042000000000000012904		FD015 Brewster Fire	741,115 TO	
Purchase, NY 10577	18-6-1				
	ACRES 29.50				
	EAST-0728602 NRTH-0947553				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	741,100			
1	Barrett Rd	NON-HOMESTEAD PARCEL			45.-1-6.1
45.-1-6.1	321 Abandoned ag		COUNTY TAXABLE VALUE	267,100	
Taj Mahal Development Corp.	Brewster Centra 373001	267,100	TOWN TAXABLE VALUE	267,100	
Alan M. Getz	0180000060040000000	267,100	SCHOOL TAXABLE VALUE	267,100	
C/O Vanguard Investors Ltd.	00750000000000007013		FD015 Brewster Fire	267,100 TO	
224 Fifth Ave Fl 5th	18-6-4				
New York, NY 10001	FRNT 750.00 DPTH				
	ACRES 35.28				
	EAST-0728130 NRTH-0945311				
	DEED BOOK 1806 PG-82				
	FULL MARKET VALUE	267,100			
3	Barrett Rd	NON-HOMESTEAD PARCEL			45.-1-6.2
45.-1-6.2	321 Abandoned ag		COUNTY TAXABLE VALUE	272,100	
Taj Mahal Development Corp.	Brewster Centra 373001	272,100	TOWN TAXABLE VALUE	272,100	
Alan M. Getz	0450000010060020000	272,100	SCHOOL TAXABLE VALUE	272,100	
C/O Vanguard Investors Ltd.	18-6-4		FD015 Brewster Fire	272,100 TO	
224 Fifth Ave Fl 5th	ACRES 37.82				
New York, NY 10001	EAST-0727043 NRTH-0945504				
	DEED BOOK 1806 PG-82				
	FULL MARKET VALUE	272,100			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-1-7.1 **********					
45.-1-7.1 Tenth Jam Upstate LLC C/O Vanguard Investors, Ltd 224 Fifth Ave New York, NY 10001	148 Simpson Rd 322 Rural vac>10 Brewster Centra 373001 0470000010010000000 00400000000000003406 47-1-1 FRNT 658.00 DPTH ACRES 10.30 EAST-0726155 NRTH-0945092 DEED BOOK 2033 PG-357 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 232,500 232,500 232,500	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	232,500 232,500 232,500 232,500 TO	
********** 45.-1-7.2 **********					
45.-1-7.2 Tenth Jam Upstate LLC C/O Vanguard Investors, Ltd 224 Fifth Ave New York, NY 10001	144 Simpson Rd 322 Rural vac>10 Brewster Centra 373001 0470000010010000000 00400000000000003406 47-1-1 ACRES 19.46 EAST-0726302 NRTH-0943806 DEED BOOK 2033 PG-357 FULL MARKET VALUE	NON-HOMESTEAD PARCEL 232,500 232,500 232,500	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	232,500 232,500 232,500 232,500 TO	
********** 45.-1-8.1 **********					
45.-1-8.1 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	151 Pugsley Rd 300 Vacant Land Brewster Centra 373001 0180000020030000000 03360000000000009801 18-2-3 ACRES 10.44 EAST-0727611 NRTH-0949584 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 38,675 38,675 38,700	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	38,675 38,675 38,675 38,675 TO	
********** 45.-1-8.2 **********					
45.-1-8.2 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	Pugsley Rd 300 Vacant Land Brewster Centra 373001 0180000020030000000 03360000000000009801 18-2-3 ACRES 8.95 EAST-0727955 NRTH-0949245 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 33,150 33,150 33,200	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	33,150 33,150 33,150 33,150 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
	Pugsley Rd	HOMESTEAD PARCEL			45.-1-8.3
45.-1-8.3	300 Vacant Land		COUNTY TAXABLE VALUE	22,185	
Putnam Seabury Partners	Brewster Centra 373001	22,185	TOWN TAXABLE VALUE	22,185	
C/O Schulweis Realty, Inc.	01800000020030000000	22,185	SCHOOL TAXABLE VALUE	22,185	
PO Box 607	033600000000000009801		FD015 Brewster Fire	22,185 TO	
Purchase, NY 10577	18-2-3				
	ACRES 3.40				
	EAST-0727824 NRTH-0949863				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,200			
171	Pugsley Rd	HOMESTEAD PARCEL			45.-1-9
45.-1-9	311 Res vac land		COUNTY TAXABLE VALUE	41,300	
Gottwald Fred	Brewster Centra 373001	41,300	TOWN TAXABLE VALUE	41,300	
Gottwald Charles	01800000020020000000	41,300	SCHOOL TAXABLE VALUE	41,300	
384 Fair St	00075000000000000100		FD015 Brewster Fire	41,300 TO	
Carmel, NY 10512	18-2-2				
	FRNT 75.00 DPTH				
	ACRES 1.00				
	EAST-0727528 NRTH-0950875				
	FULL MARKET VALUE	41,300			
10-50	Pugsley Rd	NON-HOMESTEAD PARCEL			45.-1-12
45.-1-12	300 Vacant Land		COUNTY TAXABLE VALUE	355,725	
Putnam Seabury Partners	Brewster Centra 373001	355,725	TOWN TAXABLE VALUE	355,725	
C/O Schulweis Realty, Inc.	01800000030140000000	355,725	SCHOOL TAXABLE VALUE	355,725	
PO Box 607	009800000000000005252		FD015 Brewster Fire	355,725 TO	
Purchase, NY 10577	18-3-14				
	FRNT 980.00 DPTH				
	ACRES 52.52				
	EAST-0730010 NRTH-0945760				
	DEED BOOK 962 PG-00107				
	FULL MARKET VALUE	355,700			
190	Rt 312	NON-HOMESTEAD PARCEL			45.-1-13
45.-1-13	300 Vacant Land		COUNTY TAXABLE VALUE	23,290	
Putnam Seabury Partners	Brewster Centra 373001	23,290	TOWN TAXABLE VALUE	23,290	
C/O Schulweis Realty, Inc.	01800000030130000000	23,290	SCHOOL TAXABLE VALUE	23,290	
PO Box 607	001000000000000000778		FD015 Brewster Fire	23,290 TO	
Purchase, NY 10577	18-3-13				
	FRNT 100.00 DPTH				
	ACRES 7.78				
	EAST-0730653 NRTH-0945558				
	DEED BOOK 962 PG-00107				
	FULL MARKET VALUE	23,300			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TAXABLE VALUE	TOWN / TAXABLE VALUE	SCHOOL / TAXABLE VALUE / ACCOUNT NO.
45.-2-87	7 Garrity Blvd	HOMESTEAD PARCEL				
	210 1 Family Res		BAS STAR 41854	0	0	49,340
Alvarez Kenneth	Brewster Centra 373001	135,300	COUNTY TAXABLE VALUE	525,900		
7 Garrity Blvd	02000000010060020000	525,900	TOWN TAXABLE VALUE	525,900		
Brewster, NY 10509	00606000000000006910		SCHOOL TAXABLE VALUE	476,560		
	20-1-6.2		DD001 Oakridge Drainage		1.00 UN	
	FRNT 336.80 DPTH		FD015 Brewster Fire	525,900 TO		
	ACRES 1.34		RG004 Southeast Garbage		1.00 UN	
	EAST-0734868 NRTH-0948440					
	DEED BOOK 1531 PG-69					
	FULL MARKET VALUE	525,900				
45.-3-1	10 Howes Rd	HOMESTEAD PARCEL				
	300 Vacant Land		COUNTY TAXABLE VALUE	18,700		
45.-3-1	Brewster Centra 373001	18,700	TOWN TAXABLE VALUE		18,700	
Putnam Seabury Partners	01800000020030000000	18,700	SCHOOL TAXABLE VALUE	18,700		
C/O Schulweis Realty, Inc.	03360000000000009801		FD015 Brewster Fire	18,700 TO		
PO Box 607	18-2-3					
Purchase, NY 10577	ACRES 0.56					
	EAST-0727364 NRTH-0949110					
	DEED BOOK 884 PG-00157					
	FULL MARKET VALUE	18,700				
45.-3-2	14 Howes Rd	HOMESTEAD PARCEL				
	300 Vacant Land		COUNTY TAXABLE VALUE	29,580		
45.-3-2	Brewster Centra 373001	29,580	TOWN TAXABLE VALUE		29,580	
Putnam Seabury Partners	01800000020030000000	29,580	SCHOOL TAXABLE VALUE	29,580		
C/O Schulweis Realty, Inc.	03360000000000009801		FD015 Brewster Fire	29,580 TO		
PO Box 607	18-2-3					
Purchase, NY 10577	ACRES 0.89					
	EAST-0727441 NRTH-0949221					
	DEED BOOK 884 PG-00157					
	FULL MARKET VALUE	29,600				
45.-3-3	18 Howes Rd	HOMESTEAD PARCEL				
	300 Vacant Land		COUNTY TAXABLE VALUE	22,270		
45.-3-3	Brewster Centra 373001	22,270	TOWN TAXABLE VALUE		22,270	
Putnam Seabury Partners	01800000020030000000	22,270	SCHOOL TAXABLE VALUE	22,270		
C/O Schulweis Realty, Inc.	03360000000000009801		FD015 Brewster Fire	22,270 TO		
PO Box 607	18-2-3					
Purchase, NY 10577	ACRES 0.67					
	EAST-0727407 NRTH-0949355					
	DEED BOOK 884 PG-00157					
	FULL MARKET VALUE	22,300				

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-4	2 Bouton Ct	HOMESTEAD PARCEL	COUNTY TAXABLE VALUE	12,665	
Putnam Seabury Partners	300 Vacant Land Brewster Centra 373001	12,665	TOWN TAXABLE VALUE	12,665	
C/O Schulweis Realty, Inc.	01800000020030000000	12,665	SCHOOL TAXABLE VALUE	12,665	
PO Box 607	033600000000000009801		FD015 Brewster Fire	12,665 TO	
Purchase, NY 10577	18-2-3 ACRES 0.38 EAST-0727196 NRTH-0949642 DEED BOOK 884 PG-00157 FULL MARKET VALUE	12,700			
45.-3-5	8 Bouton Ct	HOMESTEAD PARCEL	COUNTY TAXABLE VALUE	14,790	
Putnam Seabury Partners	300 Vacant Land Brewster Centra 373001	14,790	TOWN TAXABLE VALUE	14,790	
C/O Schulweis Realty, Inc.	01800000020030000000	14,790	SCHOOL TAXABLE VALUE	14,790	
PO Box 607	033600000000000009801		FD015 Brewster Fire	14,790 TO	
Purchase, NY 10577	18-2-3 ACRES 0.44 EAST-0727276 NRTH-0949523 DEED BOOK 884 PG-00157 FULL MARKET VALUE	14,800			
45.-3-6	9 Bouton Ct	HOMESTEAD PARCEL	COUNTY TAXABLE VALUE	24,565	
Putnam Seabury Partners	300 Vacant Land Brewster Centra 373001	24,565	TOWN TAXABLE VALUE	24,565	
C/O Schulweis Realty, Inc.	01800000020030000000	24,565	SCHOOL TAXABLE VALUE	24,565	
PO Box 607	033600000000000009801		FD015 Brewster Fire	24,565 TO	
Purchase, NY 10577	18-2-3 ACRES 0.74 EAST-0727404 NRTH-0949529 DEED BOOK 884 PG-00157 FULL MARKET VALUE	24,600			
45.-3-7	5 Bouton Ct	HOMESTEAD PARCEL	COUNTY TAXABLE VALUE	32,980	
Putnam Seabury Partners	300 Vacant Land Brewster Centra 373001	32,980	TOWN TAXABLE VALUE	32,980	
C/O Schulweis Realty, Inc.	01800000020030000000	32,980	SCHOOL TAXABLE VALUE	32,980	
PO Box 607	033600000000000009801		FD015 Brewster Fire	32,980 TO	
Purchase, NY 10577	18-2-3 ACRES 0.99 EAST-0727376 NRTH-0949761 DEED BOOK 884 PG-00157 FULL MARKET VALUE	33,000			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-8	3 Bouton Ct	HOMESTEAD PARCEL			
45.-3-8	300 Vacant Land		COUNTY TAXABLE VALUE	13,430	
Putnam Seabury Partners	Brewster Centra 373001	13,430	TOWN TAXABLE VALUE	13,430	
C/O Schulweis Realty, Inc.	01800000020030000000	13,430	SCHOOL TAXABLE VALUE	13,430	
PO Box 607	033600000000000009801		FD015 Brewster Fire	13,430 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.40				
	EAST-0727235 NRTH-0949819				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	13,400			
45.-3-9	28 Howes Rd	HOMESTEAD PARCEL			
45.-3-9	300 Vacant Land		COUNTY TAXABLE VALUE	23,375	
Putnam Seabury Partners	Brewster Centra 373001	23,375	TOWN TAXABLE VALUE	23,375	
C/O Schulweis Realty, Inc.	01800000020030000000	23,375	SCHOOL TAXABLE VALUE	23,375	
PO Box 607	033600000000000009801		FD015 Brewster Fire	23,375 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.70				
	EAST-0727298 NRTH-0949940				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	23,400			
45.-3-10	32 Howes Rd	HOMESTEAD PARCEL			
45.-3-10	300 Vacant Land		COUNTY TAXABLE VALUE	22,185	
Putnam Seabury Partners	Brewster Centra 373001	22,185	TOWN TAXABLE VALUE	22,185	
C/O Schulweis Realty, Inc.	01800000020030000000	22,185	SCHOOL TAXABLE VALUE	22,185	
PO Box 607	033600000000000009801		FD015 Brewster Fire	22,185 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.67				
	EAST-0727244 NRTH-0950045				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,200			
45.-3-11	4 Hall Ct	HOMESTEAD PARCEL			
45.-3-11	300 Vacant Land		COUNTY TAXABLE VALUE	14,875	
Putnam Seabury Partners	Brewster Centra 373001	14,875	TOWN TAXABLE VALUE	14,875	
C/O Schulweis Realty, Inc.	01800000020030000000	14,875	SCHOOL TAXABLE VALUE	14,875	
PO Box 607	033600000000000009801		FD015 Brewster Fire	14,875 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.45				
	EAST-0727040 NRTH-0950224				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	14,900			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-12	34 Howes Rd		HOMESTEAD PARCEL				
45.-3-12	300 Vacant Land			12,155	12,155	12,155	
Putnam Seabury Partners	Brewster Centra 373001	12,155					
C/O Schulweis Realty, Inc.	01800000020030000000						
PO Box 607	033600000000000009801		FD015 Brewster Fire	12,155 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.37						
	EAST-0727127 NRTH-0950134						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	12,200					
45.-3-13	8 Hall Ct		HOMESTEAD PARCEL				
45.-3-13	300 Vacant Land			23,885	23,885	23,885	
Putnam Seabury Partners	Brewster Centra 373001	23,885					
C/O Schulweis Realty, Inc.	01800000020030000000						
PO Box 607	033600000000000009801		FD015 Brewster Fire	23,885 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.72						
	EAST-0727247 NRTH-0950193						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	23,900					
45.-3-14	7 Hall Ct		HOMESTEAD PARCEL				
45.-3-14	300 Vacant Land			26,010	26,010	26,010	
Putnam Seabury Partners	Brewster Centra 373001	26,010					
C/O Schulweis Realty, Inc.	01800000020030000000						
PO Box 607	033600000000000009801		FD015 Brewster Fire	26,010 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.78						
	EAST-0727198 NRTH-0950387						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	26,000					
45.-3-15	3 Hall Ct		HOMESTEAD PARCEL				
45.-3-15	300 Vacant Land			18,700	18,700	18,700	
Putnam Seabury Partners	Brewster Centra 373001	18,700					
C/O Schulweis Realty, Inc.	01800000020030000000						
PO Box 607	033600000000000009801		FD015 Brewster Fire	18,700 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.56						
	EAST-0727019 NRTH-0950424						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	18,700					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-16	48 Howes Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	30,260			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	30,260	TOWN TAXABLE VALUE		30,260		
PO Box 607	018000000020030000000	30,260	SCHOOL TAXABLE VALUE			30,260	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	30,260 TO			
	18-2-3						
	ACRES 0.91						
	EAST-0727165 NRTH-0950558						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	30,300					
45.-3-17	52 Howes Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	31,025			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	31,025	TOWN TAXABLE VALUE		31,025		
PO Box 607	018000000020030000000	31,025	SCHOOL TAXABLE VALUE			31,025	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	31,025 TO			
	18-2-3						
	ACRES 0.93						
	EAST-0727110 NRTH-0950733						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	31,000					
45.-3-18	51 Howes Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	17,680			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	17,680	TOWN TAXABLE VALUE		17,680		
PO Box 607	018000000020030000000	17,680	SCHOOL TAXABLE VALUE			17,680	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	17,680 TO			
	18-2-3						
	ACRES 0.53						
	EAST-0726960 NRTH-0950728						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	17,700					
45.-3-19	47 Howes Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	10,710			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	10,710	TOWN TAXABLE VALUE		10,710		
PO Box 607	018000000020030000000	10,710	SCHOOL TAXABLE VALUE			10,710	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	10,710 TO			
	18-2-3						
	ACRES 0.32						
	EAST-0726904 NRTH-0950595						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	10,700					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-20	45 Howes Rd	HOMESTEAD PARCEL			
45.-3-20	300 Vacant Land		COUNTY TAXABLE VALUE	10,370	
Putnam Seabury Partners	Brewster Centra 373001	10,370	TOWN TAXABLE VALUE	10,370	
C/O Schulweis Realty, Inc.	01800000020030000000	10,370	SCHOOL TAXABLE VALUE	10,370	
PO Box 607	033600000000000009801		FD015 Brewster Fire	10,370 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.31				
	EAST-0726857 NRTH-0950490				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	10,400			
45.-3-21	43 Howes Rd	HOMESTEAD PARCEL			
45.-3-21	300 Vacant Land		COUNTY TAXABLE VALUE	11,730	
Putnam Seabury Partners	Brewster Centra 373001	11,730	TOWN TAXABLE VALUE	11,730	
C/O Schulweis Realty, Inc.	01800000020030000000	11,730	SCHOOL TAXABLE VALUE	11,730	
PO Box 607	033600000000000009801		FD015 Brewster Fire	11,730 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.35				
	EAST-0726818 NRTH-0950381				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,700			
45.-3-22	41 Howes Rd	HOMESTEAD PARCEL			
45.-3-22	300 Vacant Land		COUNTY TAXABLE VALUE	15,980	
Putnam Seabury Partners	Brewster Centra 373001	15,980	TOWN TAXABLE VALUE	15,980	
C/O Schulweis Realty, Inc.	01800000020030000000	15,980	SCHOOL TAXABLE VALUE	15,980	
PO Box 607	033600000000000009801		FD015 Brewster Fire	15,980 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.48				
	EAST-0726796 NRTH-0950275				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,000			
45.-3-23	39 Howes Rd	HOMESTEAD PARCEL			
45.-3-23	300 Vacant Land		COUNTY TAXABLE VALUE	24,565	
Putnam Seabury Partners	Brewster Centra 373001	24,565	TOWN TAXABLE VALUE	24,565	
C/O Schulweis Realty, Inc.	01800000020030000000	24,565	SCHOOL TAXABLE VALUE	24,565	
PO Box 607	033600000000000009801		FD015 Brewster Fire	24,565 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.74				
	EAST-0726795 NRTH-0950156				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	24,600			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-24	4 Hartwell Ct		HOMESTEAD PARCEL		
45.-3-24	300 Vacant Land		COUNTY TAXABLE VALUE	17,425	
Putnam Seabury Partners	Brewster Centra 373001	17,425	TOWN TAXABLE VALUE	17,425	
C/O Schulweis Realty, Inc.	01800000020030000000	17,425	SCHOOL TAXABLE VALUE	17,425	
PO Box 607	033600000000000009801		FD015 Brewster Fire	17,425 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.52				
	EAST-0726903 NRTH-0950083				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	17,400			
45.-3-25	6 Hartwell Ct		HOMESTEAD PARCEL		
45.-3-25	300 Vacant Land		COUNTY TAXABLE VALUE	20,315	
Putnam Seabury Partners	Brewster Centra 373001	20,315	TOWN TAXABLE VALUE	20,315	
C/O Schulweis Realty, Inc.	01800000020030000000	20,315	SCHOOL TAXABLE VALUE	20,315	
PO Box 607	033600000000000009801		FD015 Brewster Fire	20,315 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.61				
	EAST-0726809 NRTH-0949977				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,300			
45.-3-26	8 Hartwell Ct		HOMESTEAD PARCEL		
45.-3-26	300 Vacant Land		COUNTY TAXABLE VALUE	17,255	
Putnam Seabury Partners	Brewster Centra 373001	17,255	TOWN TAXABLE VALUE	17,255	
C/O Schulweis Realty, Inc.	01800000020030000000	17,255	SCHOOL TAXABLE VALUE	17,255	
PO Box 607	033600000000000009801		FD015 Brewster Fire	17,255 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.52				
	EAST-0726843 NRTH-0949861				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	17,300			
45.-3-27	10 Hartwell Ct		HOMESTEAD PARCEL		
45.-3-27	300 Vacant Land		COUNTY TAXABLE VALUE	19,720	
Putnam Seabury Partners	Brewster Centra 373001	19,720	TOWN TAXABLE VALUE	19,720	
C/O Schulweis Realty, Inc.	01800000020030000000	19,720	SCHOOL TAXABLE VALUE	19,720	
PO Box 607	033600000000000009801		FD015 Brewster Fire	19,720 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.59				
	EAST-0726881 NRTH-0949728				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,700			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-28	25 Howes Rd	HOMESTEAD PARCEL			
45.-3-28	300 Vacant Land		COUNTY TAXABLE VALUE	16,490	
Putnam Seabury Partners	Brewster Centra 373001	16,490	TOWN TAXABLE VALUE	16,490	
C/O Schulweis Realty, Inc.	01800000020030000000	16,490	SCHOOL TAXABLE VALUE	16,490	
PO Box 607	033600000000000009801		FD015 Brewster Fire	16,490 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.49				
	EAST-0727011 NRTH-0949684				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,500			
45.-3-29	11 Hartwell Ct	HOMESTEAD PARCEL			
45.-3-29	300 Vacant Land		COUNTY TAXABLE VALUE	12,835	
Putnam Seabury Partners	Brewster Centra 373001	12,835	TOWN TAXABLE VALUE	12,835	
C/O Schulweis Realty, Inc.	01800000020030000000	12,835	SCHOOL TAXABLE VALUE	12,835	
PO Box 607	033600000000000009801		FD015 Brewster Fire	12,835 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.39				
	EAST-0727051 NRTH-0949812				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,800			
45.-3-30	7 Hartwell Ct	HOMESTEAD PARCEL			
45.-3-30	300 Vacant Land		COUNTY TAXABLE VALUE	12,920	
Putnam Seabury Partners	Brewster Centra 373001	12,920	TOWN TAXABLE VALUE	12,920	
C/O Schulweis Realty, Inc.	01800000020030000000	12,920	SCHOOL TAXABLE VALUE	12,920	
PO Box 607	033600000000000009801		FD015 Brewster Fire	12,920 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.39				
	EAST-0727036 NRTH-0949947				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,900			
45.-3-32	21 Howes Rd	HOMESTEAD PARCEL			
45.-3-32	300 Vacant Land		COUNTY TAXABLE VALUE	22,185	
Putnam Seabury Partners	Brewster Centra 373001	22,185	TOWN TAXABLE VALUE	22,185	
C/O Schulweis Realty, Inc.	01800000020030000000	22,185	SCHOOL TAXABLE VALUE	22,185	
PO Box 607	033600000000000009801		FD015 Brewster Fire	22,185 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.66				
	EAST-0727056 NRTH-0949414				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,200			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-33	6 Reynolds Ct	HOMESTEAD PARCEL			
40	300 Vacant Land		COUNTY TAXABLE VALUE	15,045	
Putnam Seabury Partners	Brewster Centra 373001	15,045	TOWN TAXABLE VALUE	15,045	
C/O Schulweis Realty, Inc.	01800000020030000000	15,045	SCHOOL TAXABLE VALUE	15,045	
PO Box 607	033600000000000009801		FD015 Brewster Fire	15,045 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.45				
	EAST-0727156 NRTH-0949361				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	15,000			
45.-3-34	10 Reynolds Ct	HOMESTEAD PARCEL			
41	300 Vacant Land		COUNTY TAXABLE VALUE	20,570	
Putnam Seabury Partners	Brewster Centra 373001	20,570	TOWN TAXABLE VALUE	20,570	
C/O Schulweis Realty, Inc.	01800000020030000000	20,570	SCHOOL TAXABLE VALUE	20,570	
PO Box 607	033600000000000009801		FD015 Brewster Fire	20,570 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.62				
	EAST-0726969 NRTH-0949306				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,600			
45.-3-35	11 Reynolds Ct	HOMESTEAD PARCEL			
42	300 Vacant Land		COUNTY TAXABLE VALUE	17,255	
Putnam Seabury Partners	Brewster Centra 373001	17,255	TOWN TAXABLE VALUE	17,255	
C/O Schulweis Realty, Inc.	01800000020030000000	17,255	SCHOOL TAXABLE VALUE	17,255	
PO Box 607	033600000000000009801		FD015 Brewster Fire	17,255 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.52				
	EAST-0727026 NRTH-0949195				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	17,300			
45.-3-36	7 Reynolds Ct	HOMESTEAD PARCEL			
43	300 Vacant Land		COUNTY TAXABLE VALUE	14,960	
Putnam Seabury Partners	Brewster Centra 373001	14,960	TOWN TAXABLE VALUE	14,960	
C/O Schulweis Realty, Inc.	01800000020030000000	14,960	SCHOOL TAXABLE VALUE	14,960	
PO Box 607	033600000000000009801		FD015 Brewster Fire	14,960 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.45				
	EAST-0727189 NRTH-0949193				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	15,000			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
	45.-3-37				
	9 Howes Rd	HOMESTEAD PARCEL			
45.-3-37	300 Vacant Land		COUNTY TAXABLE VALUE	20,825	
Putnam Seabury Partners	Brewster Centra 373001	20,825	TOWN TAXABLE VALUE	20,825	
C/O Schulweis Realty, Inc.	0180000020030000000	20,825	SCHOOL TAXABLE VALUE	20,825	
PO Box 607	03360000000000009801		FD015 Brewster Fire	20,825 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.62				
	EAST-0727060 NRTH-0949090				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,800			
	45.-3-38				
	7 Howes Rd	HOMESTEAD PARCEL			
45.-3-38	300 Vacant Land		COUNTY TAXABLE VALUE	22,270	
Putnam Seabury Partners	Brewster Centra 373001	22,270	TOWN TAXABLE VALUE	22,270	
C/O Schulweis Realty, Inc.	0180000020030000000	22,270	SCHOOL TAXABLE VALUE	22,270	
PO Box 607	03360000000000009801		FD015 Brewster Fire	22,270 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.67				
	EAST-0727065 NRTH-0948990				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,300			
	45.-3-39				
	8 Parrish Ct	HOMESTEAD PARCEL			
45.-3-39	300 Vacant Land		COUNTY TAXABLE VALUE	14,960	
Putnam Seabury Partners	Brewster Centra 373001	14,960	TOWN TAXABLE VALUE	14,960	
C/O Schulweis Realty, Inc.	0180000020030000000	14,960	SCHOOL TAXABLE VALUE	14,960	
PO Box 607	03360000000000009801		FD015 Brewster Fire	14,960 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.45				
	EAST-0727171 NRTH-0948900				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	15,000			
	45.-3-40				
	10 Parrish Ct	HOMESTEAD PARCEL			
45.-3-40	300 Vacant Land		COUNTY TAXABLE VALUE	18,445	
Putnam Seabury Partners	Brewster Centra 373001	18,445	TOWN TAXABLE VALUE	18,445	
C/O Schulweis Realty, Inc.	0180000020030000000	18,445	SCHOOL TAXABLE VALUE	18,445	
PO Box 607	03360000000000009801		FD015 Brewster Fire	18,445 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.55				
	EAST-0727025 NRTH-0948846				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	18,400			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-41	9 Parrish Ct	HOMESTEAD PARCEL					
45.-3-41	300 Vacant Land		COUNTY TAXABLE VALUE	27,285			
Putnam Seabury Partners	Brewster Centra 373001	27,285	TOWN TAXABLE VALUE		27,285		
C/O Schulweis Realty, Inc.	01800000020030000000	27,285	SCHOOL TAXABLE VALUE	27,285			
PO Box 607	03360000000000009801		FD015 Brewster Fire	27,285 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.82						
	EAST-0727131 NRTH-0948636						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	27,300					
45.-3-42	3 Parrish Ct	HOMESTEAD PARCEL					
45.-3-42	300 Vacant Land		COUNTY TAXABLE VALUE	21,335			
Putnam Seabury Partners	Brewster Centra 373001	21,335	TOWN TAXABLE VALUE		21,335		
C/O Schulweis Realty, Inc.	01800000020030000000	21,335	SCHOOL TAXABLE VALUE	21,335			
PO Box 607	03360000000000009801		FD015 Brewster Fire	21,335 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.64						
	EAST-0727248 NRTH-0948686						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	21,300					
45.-3-43	4 Seeley Ct	HOMESTEAD PARCEL					
45.-3-43	300 Vacant Land		COUNTY TAXABLE VALUE	17,935			
Putnam Seabury Partners	Brewster Centra 373001	17,935	TOWN TAXABLE VALUE		17,935		
C/O Schulweis Realty, Inc.	01800000020030000000	17,935	SCHOOL TAXABLE VALUE	17,935			
PO Box 607	03360000000000009801		FD015 Brewster Fire	17,935 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.54						
	EAST-0726829 NRTH-0948389						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	17,900					
45.-3-44	8 Seeley Ct	HOMESTEAD PARCEL					
45.-3-44	300 Vacant Land		COUNTY TAXABLE VALUE	20,230			
Putnam Seabury Partners	Brewster Centra 373001	20,230	TOWN TAXABLE VALUE		20,230		
C/O Schulweis Realty, Inc.	01800000020030000000	20,230	SCHOOL TAXABLE VALUE	20,230			
PO Box 607	03360000000000009801		FD015 Brewster Fire	20,230 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.61						
	EAST-0726927 NRTH-0948464						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	20,200					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-45	12 Seeley Ct		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			19,550	19,550	19,550	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	19,550					
PO Box 607	01800000020030000000		FD015 Brewster Fire	19,550 TO			
Purchase, NY 10577	03360000000000009801						
	18-2-3						
	ACRES 0.59						
	EAST-0727020 NRTH-0948556						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	19,600					
45.-3-46	9 Seeley Ct		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			19,975	19,975	19,975	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	19,975					
PO Box 607	01800000020030000000		FD015 Brewster Fire	19,975 TO			
Purchase, NY 10577	03360000000000009801						
	18-2-3						
	ACRES 0.60						
	EAST-0726772 NRTH-0948630						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	20,000					
45.-3-47	24 Sears Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			12,665	12,665	12,665	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	12,665					
PO Box 607	01800000020030000000		FD015 Brewster Fire	12,665 TO			
Purchase, NY 10577	03360000000000009801						
	18-2-3						
	ACRES 0.38						
	EAST-0726819 NRTH-0948765						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	12,700					
45.-3-48	26 Sears Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			17,085	17,085	17,085	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	17,085					
PO Box 607	01800000020030000000		FD015 Brewster Fire	17,085 TO			
Purchase, NY 10577	03360000000000009801						
	18-2-3						
	ACRES 0.51						
	EAST-0726876 NRTH-0948874						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	17,100					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-49	30 Sears Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	18,870	
Putnam Seabury Partners	Brewster Centra 373001	18,870	TOWN TAXABLE VALUE	18,870	
C/O Schulweis Realty, Inc.	01800000020030000000	18,870	SCHOOL TAXABLE VALUE	18,870	
PO Box 607	033600000000000009801		FD015 Brewster Fire	18,870 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.57				
	EAST-0726806 NRTH-0948982				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	18,900			
45.-3-50	29 Sears Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	15,130	
Putnam Seabury Partners	Brewster Centra 373001	15,130	TOWN TAXABLE VALUE	15,130	
C/O Schulweis Realty, Inc.	01800000020030000000	15,130	SCHOOL TAXABLE VALUE	15,130	
PO Box 607	033600000000000009801		FD015 Brewster Fire	15,130 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.46				
	EAST-0726645 NRTH-0948949				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	15,100			
45.-3-51	21 Sears Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	13,090	
Putnam Seabury Partners	Brewster Centra 373001	13,090	TOWN TAXABLE VALUE	13,090	
C/O Schulweis Realty, Inc.	01800000020030000000	13,090	SCHOOL TAXABLE VALUE	13,090	
PO Box 607	033600000000000009801		FD015 Brewster Fire	13,090 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.39				
	EAST-0726624 NRTH-0948822				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	13,100			
45.-3-52	4 Higgins Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	18,445	
Putnam Seabury Partners	Brewster Centra 373001	18,445	TOWN TAXABLE VALUE	18,445	
C/O Schulweis Realty, Inc.	01800000020030000000	18,445	SCHOOL TAXABLE VALUE	18,445	
PO Box 607	033600000000000009801		FD015 Brewster Fire	18,445 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.55				
	EAST-0726497 NRTH-0948874				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	18,400			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-53	8 Higgins Ct	HOMESTEAD PARCEL					
45.-3-53	300 Vacant Land			22,695			
Putnam Seabury Partners	Brewster Centra 373001	22,695		22,695	22,695	22,695	
C/O Schulweis Realty, Inc.	01800000020030000000	22,695					
PO Box 607	033600000000000009801		FD015 Brewster Fire	22,695 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.68						
	EAST-0726391 NRTH-0948874						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	22,700					
45.-3-54	10 Higgins Ct	HOMESTEAD PARCEL					
45.-3-54	300 Vacant Land			22,695			
Putnam Seabury Partners	Brewster Centra 373001	22,695		22,695	22,695	22,695	
C/O Schulweis Realty, Inc.	01800000020030000000	22,695					
PO Box 607	033600000000000009801		FD015 Brewster Fire	22,695 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.53						
	EAST-0726370 NRTH-0948687						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	22,700					
45.-3-55	5 Higgins Ct	HOMESTEAD PARCEL					
45.-3-55	300 Vacant Land			15,300			
Putnam Seabury Partners	Brewster Centra 373001	15,300		15,300	15,300	15,300	
C/O Schulweis Realty, Inc.	01800000020030000000	15,300					
PO Box 607	033600000000000009801		FD015 Brewster Fire	15,300 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.46						
	EAST-0726484 NRTH-0948598						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	15,300					
45.-3-56	3 Higgins Ct	HOMESTEAD PARCEL					
45.-3-56	300 Vacant Land			11,730			
Putnam Seabury Partners	Brewster Centra 373001	11,730		11,730	11,730	11,730	
C/O Schulweis Realty, Inc.	01800000020030000000	11,730					
PO Box 607	033600000000000009801		FD015 Brewster Fire	11,730 TO			
Purchase, NY 10577	18-2-3						
	ACRES 0.35						
	EAST-0726598 NRTH-0948625						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	11,700					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-57	2 Barber Ct	HOMESTEAD PARCEL			
45.-3-57	300 Vacant Land		COUNTY TAXABLE VALUE	14,110	
Putnam Seabury Partners	Brewster Centra 373001	14,110	TOWN TAXABLE VALUE	14,110	
C/O Schulweis Realty, Inc.	01800000020030000000	14,110	SCHOOL TAXABLE VALUE	14,110	
PO Box 607	033600000000000009801		FD015 Brewster Fire	14,110 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.42				
	EAST-0726575 NRTH-0948493				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	14,100			
45.-3-58	8 Barber Ct	HOMESTEAD PARCEL			
45.-3-58	300 Vacant Land		COUNTY TAXABLE VALUE	18,190	
Putnam Seabury Partners	Brewster Centra 373001	18,190	TOWN TAXABLE VALUE	18,190	
C/O Schulweis Realty, Inc.	01800000020030000000	18,190	SCHOOL TAXABLE VALUE	18,190	
PO Box 607	033600000000000009801		FD015 Brewster Fire	18,190 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.55				
	EAST-0726440 NRTH-0948462				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	18,200			
45.-3-59	9 Barber Ct	HOMESTEAD PARCEL			
45.-3-59	300 Vacant Land		COUNTY TAXABLE VALUE	25,755	
Putnam Seabury Partners	Brewster Centra 373001	25,755	TOWN TAXABLE VALUE	25,755	
C/O Schulweis Realty, Inc.	01800000020030000000	25,755	SCHOOL TAXABLE VALUE	25,755	
PO Box 607	033600000000000009801		FD015 Brewster Fire	25,755 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.77				
	EAST-0726549 NRTH-0948140				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	25,800			
45.-3-60	7 Barber Ct	HOMESTEAD PARCEL			
45.-3-60	300 Vacant Land		COUNTY TAXABLE VALUE	24,395	
Putnam Seabury Partners	Brewster Centra 373001	24,395	TOWN TAXABLE VALUE	24,395	
C/O Schulweis Realty, Inc.	01800000020030000000	24,395	SCHOOL TAXABLE VALUE	24,395	
PO Box 607	033600000000000009801		FD015 Brewster Fire	24,395 TO	
Purchase, NY 10577	18-2-3				
	ACRES 0.73				
	EAST-0726648 NRTH-0948192				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	24,400			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-61	3 Barber Ct	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	19,890	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	19,890	TOWN TAXABLE VALUE	19,890	
PO Box 607	018000000200300000000	19,890	SCHOOL TAXABLE VALUE	19,890	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	19,890 TO	
	18-2-3				
	ACRES 0.60				
	EAST-0726710 NRTH-0948278				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,900			
45.-3-62	6 Wooster Rd	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	26,860	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	26,860	TOWN TAXABLE VALUE	26,860	
PO Box 607	018000000600100000000	26,860	SCHOOL TAXABLE VALUE	26,860	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	26,860 TO	
	18-6-1				
	ACRES 0.81				
	EAST-0726853 NRTH-0948045				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	26,900			
45.-3-63	10 Wooster Rd	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	20,655	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	20,655	TOWN TAXABLE VALUE	20,655	
PO Box 607	018000000600100000000	20,655	SCHOOL TAXABLE VALUE	20,655	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	20,655 TO	
	18-6-1				
	ACRES 0.62				
	EAST-0726879 NRTH-0947916				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,700			
45.-3-64	14 Wooster Rd	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	22,610	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	22,610	TOWN TAXABLE VALUE	22,610	
PO Box 607	018000000600100000000	22,610	SCHOOL TAXABLE VALUE	22,610	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	22,610 TO	
	18-6-1				
	ACRES 0.68				
	EAST-0726931 NRTH-0947809				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,600			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-65	18 Wooster Rd	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	20,485	
Putnam Seabury Partners	Brewster Centra 373001	20,485	TOWN TAXABLE VALUE	20,485	
C/O Schulweis Realty, Inc.	01800000060010000000	20,485	SCHOOL TAXABLE VALUE	20,485	
PO Box 607	042000000000000012904		FD015 Brewster Fire	20,485 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.62				
	EAST-0726997 NRTH-0947707				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,500			
45.-3-66	22 Wooster Rd	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	22,100	
Putnam Seabury Partners	Brewster Centra 373001	22,100	TOWN TAXABLE VALUE	22,100	
C/O Schulweis Realty, Inc.	01800000060010000000	22,100	SCHOOL TAXABLE VALUE	22,100	
PO Box 607	042000000000000012904		FD015 Brewster Fire	22,100 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.66				
	EAST-0727064 NRTH-0947594				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,100			
45.-3-67	24 Wooster Rd	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	25,585	
Putnam Seabury Partners	Brewster Centra 373001	25,585	TOWN TAXABLE VALUE	25,585	
C/O Schulweis Realty, Inc.	01800000060010000000	25,585	SCHOOL TAXABLE VALUE	25,585	
PO Box 607	042000000000000012904		FD015 Brewster Fire	25,585 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.77				
	EAST-0727149 NRTH-0947487				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	25,600			
45.-3-68	28 Wooster Rd	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	30,855	
Putnam Seabury Partners	Brewster Centra 373001	30,855	TOWN TAXABLE VALUE	30,855	
C/O Schulweis Realty, Inc.	01800000060010000000	30,855	SCHOOL TAXABLE VALUE	30,855	
PO Box 607	042000000000000012904		FD015 Brewster Fire	30,855 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.93				
	EAST-0727237 NRTH-0947371				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	30,900			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-69	12 Briggs Ct	HOMESTEAD PARCEL					
45.-3-69	300 Vacant Land		COUNTY TAXABLE VALUE	15,555			
Putnam Seabury Partners	Brewster Centra 373001	15,555	TOWN TAXABLE VALUE		15,555		
C/O Schulweis Realty, Inc.	01800000060010000000	15,555	SCHOOL TAXABLE VALUE	15,555			
PO Box 607	042000000000000012904		FD015 Brewster Fire	15,555 TO			
Purchase, NY 10577	18-6-1						
	ACRES 0.47						
	EAST-0727603 NRTH-0947115						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	15,600					
45.-3-70	14 Briggs Ct	HOMESTEAD PARCEL					
45.-3-70	300 Vacant Land		COUNTY TAXABLE VALUE	11,220			
Putnam Seabury Partners	Brewster Centra 373001	11,220	TOWN TAXABLE VALUE		11,220		
C/O Schulweis Realty, Inc.	01800000060010000000	11,220	SCHOOL TAXABLE VALUE	11,220			
PO Box 607	042000000000000012904		FD015 Brewster Fire	11,220 TO			
Purchase, NY 10577	18-6-1						
	ACRES 0.34						
	EAST-0727557 NRTH-0947236						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	11,200					
45.-3-71	16 Briggs Ct	HOMESTEAD PARCEL					
45.-3-71	300 Vacant Land		COUNTY TAXABLE VALUE	12,750			
Putnam Seabury Partners	Brewster Centra 373001	12,750	TOWN TAXABLE VALUE		12,750		
C/O Schulweis Realty, Inc.	01800000060010000000	12,750	SCHOOL TAXABLE VALUE	12,750			
PO Box 607	042000000000000012904		FD015 Brewster Fire	12,750 TO			
Purchase, NY 10577	18-6-1						
	ACRES 0.38						
	EAST-0727471 NRTH-0947316						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	12,800					
45.-3-72	15 Briggs Ct	HOMESTEAD PARCEL					
45.-3-72	300 Vacant Land		COUNTY TAXABLE VALUE	12,580			
Putnam Seabury Partners	Brewster Centra 373001	12,580	TOWN TAXABLE VALUE		12,580		
C/O Schulweis Realty, Inc.	01800000060010000000	12,580	SCHOOL TAXABLE VALUE	12,580			
PO Box 607	042000000000000012904		FD015 Brewster Fire	12,580 TO			
Purchase, NY 10577	18-6-1						
	ACRES 0.38						
	EAST-0727360 NRTH-0947275						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	12,600					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-73 **********					
45.-3-73 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	13 Briggs Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.69 EAST-0727300 NRTH-0947165 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 23,035 23,000	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	23,035 23,035 23,035 23,035 TO	
********** 45.-3-74 **********					
45.-3-74 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	11 Briggs Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.67 EAST-0727341 NRTH-0947047 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 22,185 22,200	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	22,185 22,185 22,185 22,185 TO	
********** 45.-3-75 **********					
45.-3-75 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	7 Briggs Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.66 EAST-0727405 NRTH-0946965 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 21,845 21,800	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	21,845 21,845 21,845 21,845 TO	
********** 45.-3-76 **********					
45.-3-76 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	3 Briggs Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.39 EAST-0727515 NRTH-0946935 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 13,090 13,100	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	13,090 13,090 13,090 13,090 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-77	1 Briggs Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	10,200	
Putnam Seabury Partners	Brewster Centra 373001	10,200	TOWN TAXABLE VALUE	10,200	
C/O Schulweis Realty, Inc.	01800000060010000000	10,200	SCHOOL TAXABLE VALUE	10,200	
PO Box 607	042000000000000012904		FD015 Brewster Fire	10,200 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.31				
	EAST-0727624 NRTH-0946923				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	10,200			
45.-3-78	10 Rockwell Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	12,920	
Putnam Seabury Partners	Brewster Centra 373001	12,920	TOWN TAXABLE VALUE	12,920	
C/O Schulweis Realty, Inc.	01800000060010000000	12,920	SCHOOL TAXABLE VALUE	12,920	
PO Box 607	042000000000000012904		FD015 Brewster Fire	12,920 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.39				
	EAST-0727624 NRTH-0946670				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,900			
45.-3-79	12 Rockwell Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	12,835	
Putnam Seabury Partners	Brewster Centra 373001	12,835	TOWN TAXABLE VALUE	12,835	
C/O Schulweis Realty, Inc.	01800000060010000000	12,835	SCHOOL TAXABLE VALUE	12,835	
PO Box 607	042000000000000012904		FD015 Brewster Fire	12,835 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.39				
	EAST-0727592 NRTH-0946814				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,800			
45.-3-80	11 Rockwell Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	22,695	
Putnam Seabury Partners	Brewster Centra 373001	22,695	TOWN TAXABLE VALUE	22,695	
C/O Schulweis Realty, Inc.	01800000060010000000	22,695	SCHOOL TAXABLE VALUE	22,695	
PO Box 607	042000000000000012904		FD015 Brewster Fire	22,695 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.68				
	EAST-0727398 NRTH-0946810				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	22,700			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-81	9 Rockwell Ct	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	20,400	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	20,400	TOWN TAXABLE VALUE	20,400	
PO Box 607	018000000600100000000	20,400	SCHOOL TAXABLE VALUE	20,400	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	20,400 TO	
	18-6-1				
	ACRES 0.61				
	EAST-0727394 NRTH-0946687				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,400			
45.-3-82	5 Rockwell Ct	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	16,490	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	16,490	TOWN TAXABLE VALUE	16,490	
PO Box 607	018000000600100000000	16,490	SCHOOL TAXABLE VALUE	16,490	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	16,490 TO	
	18-6-1				
	ACRES 0.49				
	EAST-0727453 NRTH-0946587				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,500			
45.-3-83	3 Rockwell Ct	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	16,490	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	16,490	TOWN TAXABLE VALUE	16,490	
PO Box 607	018000000600100000000	16,490	SCHOOL TAXABLE VALUE	16,490	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	16,490 TO	
	18-6-1				
	ACRES 0.49				
	EAST-0727492 NRTH-0946492				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,500			
45.-3-84	52 Wooster Rd	HOMESTEAD PARCEL			
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	21,760	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	21,760	TOWN TAXABLE VALUE	21,760	
PO Box 607	018000000600100000000	21,760	SCHOOL TAXABLE VALUE	21,760	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	21,760 TO	
	18-6-1				
	ACRES 0.65				
	EAST-0727563 NRTH-0946409				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	21,800			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-85	56 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	18,615	
Putnam Seabury Partners	Brewster Centra 373001	18,615	TOWN TAXABLE VALUE	18,615	
C/O Schulweis Realty, Inc.	01800000060010000000	18,615	SCHOOL TAXABLE VALUE	18,615	
PO Box 607	042000000000000012904		FD015 Brewster Fire	18,615 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.56				
	EAST-0727627 NRTH-0946314				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	18,600			
45.-3-86	30 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	11,305	
Putnam Seabury Partners	Brewster Centra 373001	11,305	TOWN TAXABLE VALUE	11,305	
C/O Schulweis Realty, Inc.	01800000060010000000	11,305	SCHOOL TAXABLE VALUE	11,305	
PO Box 607	042000000000000012904		FD015 Brewster Fire	11,305 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.34				
	EAST-0727380 NRTH-0947384				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,300			
45.-3-87	53 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	19,465	
Putnam Seabury Partners	Brewster Centra 373001	19,465	TOWN TAXABLE VALUE	19,465	
C/O Schulweis Realty, Inc.	01800000060010000000	19,465	SCHOOL TAXABLE VALUE	19,465	
PO Box 607	042000000000000012904		FD015 Brewster Fire	19,465 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.58				
	EAST-0727810 NRTH-0946338				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,500			
45.-3-88	6 Moorehouse Ct		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	26,690	
Putnam Seabury Partners	Brewster Centra 373001	26,690	TOWN TAXABLE VALUE	26,690	
C/O Schulweis Realty, Inc.	01800000060010000000	26,690	SCHOOL TAXABLE VALUE	26,690	
PO Box 607	042000000000000012904		FD015 Brewster Fire	26,690 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.80				
	EAST-0727952 NRTH-0946427				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	26,700			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-89	11 Seeley Ct	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	12,580	
Putnam Seabury Partners	Brewster Centra 373001	12,580	TOWN TAXABLE VALUE	12,580	
C/O Schulweis Realty, Inc.	0180000060010000000	12,580	SCHOOL TAXABLE VALUE	12,580	
PO Box 607	04200000000000012904		FD015 Brewster Fire	12,580 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.38				
	EAST-0726936 NRTH-0948688				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,600			
45.-3-90	7 Moorehouse Ct	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	23,205	
Putnam Seabury Partners	Brewster Centra 373001	23,205	TOWN TAXABLE VALUE	23,205	
C/O Schulweis Realty, Inc.	0180000060010000000	23,205	SCHOOL TAXABLE VALUE	23,205	
PO Box 607	04200000000000012904		FD015 Brewster Fire	23,205 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.70				
	EAST-0727999 NRTH-0946602				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	23,200			
45.-3-91	5 Moorehouse Ct	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	10,285	
Putnam Seabury Partners	Brewster Centra 373001	10,285	TOWN TAXABLE VALUE	10,285	
C/O Schulweis Realty, Inc.	0180000060010000000	10,285	SCHOOL TAXABLE VALUE	10,285	
PO Box 607	04200000000000012904		FD015 Brewster Fire	10,285 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.31				
	EAST-0727873 NRTH-0946649				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	10,300			
45.-3-92	3 Moorehouse Ct	HOMESTEAD PARCEL			
	300 Vacant Land		COUNTY TAXABLE VALUE	10,965	
Putnam Seabury Partners	Brewster Centra 373001	10,965	TOWN TAXABLE VALUE	10,965	
C/O Schulweis Realty, Inc.	0180000060010000000	10,965	SCHOOL TAXABLE VALUE	10,965	
PO Box 607	04200000000000012904		FD015 Brewster Fire	10,965 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.33				
	EAST-0727773 NRTH-0946645				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,000			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-93	4 Moorehouse Ct		HOMESTEAD PARCEL		
45.-3-93	300 Vacant Land		COUNTY TAXABLE VALUE	10,030	
Putnam Seabury Partners	Brewster Centra 373001		10,030 TOWN TAXABLE VALUE	10,030	
C/O Schulweis Realty, Inc.	01800000600100000000	10,030	SCHOOL TAXABLE VALUE	10,030	
PO Box 607	042000000000000012904		FD015 Brewster Fire	10,030 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.30				
	EAST-0727787 NRTH-0946465				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	10,000			
45.-3-94	2 Birdsall Ct		HOMESTEAD PARCEL		
45.-3-94	300 Vacant Land		COUNTY TAXABLE VALUE	11,730	
Putnam Seabury Partners	Brewster Centra 373001		11,730 TOWN TAXABLE VALUE	11,730	
C/O Schulweis Realty, Inc.	01800000600100000000	11,730	SCHOOL TAXABLE VALUE	11,730	
PO Box 607	042000000000000012904		FD015 Brewster Fire	11,730 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.35				
	EAST-0727773 NRTH-0946794				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,700			
45.-3-95	6 Birdsall Ct		HOMESTEAD PARCEL		
45.-3-95	300 Vacant Land		COUNTY TAXABLE VALUE	11,220	
Putnam Seabury Partners	Brewster Centra 373001		11,220 TOWN TAXABLE VALUE	11,220	
C/O Schulweis Realty, Inc.	01800000600100000000	11,220	SCHOOL TAXABLE VALUE	11,220	
PO Box 607	042000000000000012904		FD015 Brewster Fire	11,220 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.34				
	EAST-0727879 NRTH-0946782				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,200			
45.-3-96	8 Birdsall Ct		HOMESTEAD PARCEL		
45.-3-96	300 Vacant Land		COUNTY TAXABLE VALUE	19,125	
Putnam Seabury Partners	Brewster Centra 373001		19,125 TOWN TAXABLE VALUE	19,125	
C/O Schulweis Realty, Inc.	01800000600100000000	19,125	SCHOOL TAXABLE VALUE	19,125	
PO Box 607	042000000000000012904		FD015 Brewster Fire	19,125 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.57				
	EAST-0728017 NRTH-0946764				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,100			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
	45.-3-97				
45.-3-97 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	10 Birdsall Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.61 EAST-0728076 NRTH-0946884 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 20,485 20,485 20,500	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	20,485 20,485 20,485 20,485 TO	
	45.-3-98				
45.-3-98 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	9 Birdsall Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.46 EAST-0728027 NRTH-0946984 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 15,470 15,470 15,500	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	15,470 15,470 15,470 15,470 TO	
	45.-3-99				
45.-3-99 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	5 Birdsall Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.36 EAST-0727908 NRTH-0946988 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 11,985 11,985 12,000	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	11,985 11,985 11,985 11,985 TO	
	45.-3-100				
45.-3-100 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	3 Birdsall Ct 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.41 EAST-0727792 NRTH-0946993 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 13,685 13,685 13,700	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	13,685 13,685 13,685 13,685 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-101	6 Baker Ct	HOMESTEAD PARCEL					
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	16,235			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	16,235	TOWN TAXABLE VALUE		16,235		
PO Box 607	018000000600100000000	16,235	SCHOOL TAXABLE VALUE			16,235	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	16,235 TO			
	18-6-1						
	ACRES 0.49						
	EAST-0727778 NRTH-0947157						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	16,200					
45.-3-102	8 Baker Ct	HOMESTEAD PARCEL					
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	17,935			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	17,935	TOWN TAXABLE VALUE		17,935		
PO Box 607	018000000600100000000	17,935	SCHOOL TAXABLE VALUE			17,935	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	17,935 TO			
	18-6-1						
	ACRES 0.54						
	EAST-0727913 NRTH-0947129						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	17,900					
45.-3-103	10 Baker Ct	HOMESTEAD PARCEL					
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	33,660			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	33,660	TOWN TAXABLE VALUE		33,660		
PO Box 607	018000000600100000000	33,660	SCHOOL TAXABLE VALUE			33,660	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	33,660 TO			
	18-6-1						
	ACRES 1.01						
	EAST-0728079 NRTH-0947185						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	33,700					
45.-3-104	11 Baker Ct	HOMESTEAD PARCEL					
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	36,040			
C/O Schulweis Realty, Inc.	Brewster Centra 373001	36,040	TOWN TAXABLE VALUE		36,040		
PO Box 607	018000000600100000000	36,040	SCHOOL TAXABLE VALUE			36,040	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	36,040 TO			
	18-6-1						
	ACRES 1.08						
	EAST-0728052 NRTH-0947383						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	36,000					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-105 **********					
45.-3-105 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	9 Baker Ct 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.79 EAST-0727916 NRTH-0947434 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 26,180 26,180 26,200	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	26,180 26,180 26,180 26,180 TO	
********** 45.-3-106 **********					
45.-3-106 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	5 Baker Ct 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.54 EAST-0727795 NRTH-0947389 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 17,850 17,850 17,900	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	17,850 17,850 17,850 17,850 TO	
********** 45.-3-107 **********					
45.-3-107 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	3 Baker Ct 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.48 EAST-0727677 NRTH-0947366 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 15,980 15,980 16,000	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	15,980 15,980 15,980 15,980 TO	
********** 45.-3-108 **********					
45.-3-108 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	29 Wooster Rd 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.73 EAST-0727428 NRTH-0947537 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 24,395 24,395 24,400	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	24,395 24,395 24,395 24,395 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-109	23 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	13,600	
Putnam Seabury Partners	Brewster Centra 373001	13,600	TOWN TAXABLE VALUE	13,600	
C/O Schulweis Realty, Inc.	01800000060010000000	13,600	SCHOOL TAXABLE VALUE	13,600	
PO Box 607	042000000000000012904		FD015 Brewster Fire	13,600 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.41				
	EAST-0727254 NRTH-0947698				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	13,600			
45.-3-110	19 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	11,135	
Putnam Seabury Partners	Brewster Centra 373001	11,135	TOWN TAXABLE VALUE	11,135	
C/O Schulweis Realty, Inc.	01800000060010000000	11,135	SCHOOL TAXABLE VALUE	11,135	
PO Box 607	042000000000000012904		FD015 Brewster Fire	11,135 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.34				
	EAST-0727193 NRTH-0947802				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	11,100			
45.-3-111	13 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	12,495	
Putnam Seabury Partners	Brewster Centra 373001	12,495	TOWN TAXABLE VALUE	12,495	
C/O Schulweis Realty, Inc.	01800000060010000000	12,495	SCHOOL TAXABLE VALUE	12,495	
PO Box 607	042000000000000012904		FD015 Brewster Fire	12,495 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.37				
	EAST-0727144 NRTH-0947902				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	12,500			
45.-3-112	9 Wooster Rd		HOMESTEAD PARCEL		
	300 Vacant Land		COUNTY TAXABLE VALUE	15,385	
Putnam Seabury Partners	Brewster Centra 373001	15,385	TOWN TAXABLE VALUE	15,385	
C/O Schulweis Realty, Inc.	01800000060010000000	15,385	SCHOOL TAXABLE VALUE	15,385	
PO Box 607	042000000000000012904		FD015 Brewster Fire	15,385 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.46				
	EAST-0727103 NRTH-0948012				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	15,400			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-113	7 Wooster Rd		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	14,450	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	14,450	TOWN TAXABLE VALUE	14,450	
PO Box 607	0180000060010000000	14,450	SCHOOL TAXABLE VALUE	14,450	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	14,450 TO	
	18-6-1				
	ACRES 0.43				
	EAST-0727080 NRTH-0948126				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	14,500			
45.-3-114	3 Wooster Rd		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	20,315	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	20,315	TOWN TAXABLE VALUE	20,315	
PO Box 607	0180000060010000000	20,315	SCHOOL TAXABLE VALUE	20,315	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	20,315 TO	
	18-6-1				
	ACRES 0.61				
	EAST-0727021 NRTH-0948230				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,300			
45.-3-115	16 Tone Rd		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	44,965	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	44,965	TOWN TAXABLE VALUE	44,965	
PO Box 607	0180000060010000000	44,965	SCHOOL TAXABLE VALUE	44,965	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	44,965 TO	
	18-6-1				
	ACRES 1.35				
	EAST-0726665 NRTH-0947251				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	45,000			
45.-3-116	24 Tone Rd		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	25,075	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	25,075	TOWN TAXABLE VALUE	25,075	
PO Box 607	0180000060010000000	25,075	SCHOOL TAXABLE VALUE	25,075	
Purchase, NY 10577	042000000000000012904		FD015 Brewster Fire	25,075 TO	
	18-6-1				
	ACRES 0.75				
	EAST-0726755 NRTH-0946989				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	25,100			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-117 **********					
45.-3-117 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	36 Tone Rd 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.48 EAST-0726775 NRTH-0946494 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 16,065 16,100	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	16,065 16,065 16,065 16,065 TO	
********** 45.-3-118 **********					
45.-3-118 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	38 Tone Rd 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.53 EAST-0726791 NRTH-0946401 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 17,680 17,700	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	17,680 17,680 17,680 17,680 TO	
********** 45.-3-119 **********					
45.-3-119 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	42 Tone Rd 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.43 EAST-0726796 NRTH-0946299 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 14,280 14,300	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	14,280 14,280 14,280 14,280 TO	
********** 45.-3-120 **********					
45.-3-120 Putnam Seabury Partners C/O Schulwies Realty, Inc. PO Box 607 Purchase, NY 10577	44 Tone Rd 300 Vacant Land Brewster Centra 373001 0180000060010000000 04200000000000012904 18-6-1 ACRES 0.42 EAST-0726799 NRTH-0946185 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 14,025 14,000	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	14,025 14,025 14,025 14,025 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-121	45 Tone Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			15,300	15,300	15,300	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	15,300					
PO Box 607	018000000600100000000		FD015 Brewster Fire	15,300 TO			
Purchase, NY 10577	042000000000000012904						
	18-6-1						
	ACRES 0.46						
	EAST-0726867 NRTH-0946093						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	15,300					
45.-3-122	43 Tone Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			22,950	22,950	22,950	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	22,950					
PO Box 607	018000000600100000000		FD015 Brewster Fire	22,950 TO			
Purchase, NY 10577	042000000000000012904						
	18-6-1						
	ACRES 0.69						
	EAST-0726985 NRTH-0946065						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	23,000					
45.-3-123	41 Tone Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			25,755	25,755	25,755	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	25,755					
PO Box 607	018000000600100000000		FD015 Brewster Fire	25,755 TO			
Purchase, NY 10577	042000000000000012904						
	18-6-1						
	ACRES 0.77						
	EAST-0727048 NRTH-0946200						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	25,800					
45.-3-124	39 Tone Rd		HOMESTEAD PARCEL				
Putnam Seabury Partners	300 Vacant Land			17,680	17,680	17,680	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	17,680					
PO Box 607	018000000600100000000		FD015 Brewster Fire	17,680 TO			
Purchase, NY 10577	042000000000000012904						
	18-6-1						
	ACRES 0.53						
	EAST-0727039 NRTH-0946328						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	17,700					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY TAXABLE VALUE	TOWN TAXABLE VALUE	SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-125	37 Tone Rd	HOMESTEAD PARCEL					
45.-3-125	300 Vacant Land		COUNTY TAXABLE VALUE	20,400			
Putnam Seabury Partners	Brewster Centra 373001	20,400	TOWN TAXABLE VALUE		20,400		
C/O Schulweis Realty, Inc.	01800000060010000000	20,400	SCHOOL TAXABLE VALUE			20,400	
PO Box 607	04200000000000012904		FD015 Brewster Fire			20,400 TO	
Purchase, NY 10577	18-6-1						
	ACRES 0.61						
	EAST-0727051 NRTH-0946440						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	20,400					
45.-3-126	35 Tone Rd	HOMESTEAD PARCEL					
45.-3-126	300 Vacant Land		COUNTY TAXABLE VALUE	19,125			
Putnam Seabury Partners	Brewster Centra 373001	19,125	TOWN TAXABLE VALUE		19,125		
C/O Schulweis Realty, Inc.	01800000060010000000	19,125	SCHOOL TAXABLE VALUE			19,125	
PO Box 607	04200000000000012904		FD015 Brewster Fire			19,125 TO	
Purchase, NY 10577	18-6-1						
	ACRES 0.57						
	EAST-0727026 NRTH-0946549						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	19,100					
45.-3-127	33 Tone Rd	HOMESTEAD PARCEL					
45.-3-127	300 Vacant Land		COUNTY TAXABLE VALUE	16,745			
Putnam Seabury Partners	Brewster Centra 373001	16,745	TOWN TAXABLE VALUE		16,745		
C/O Schulweis Realty, Inc.	01800000060010000000	16,745	SCHOOL TAXABLE VALUE			16,745	
PO Box 607	04200000000000012904		FD015 Brewster Fire			16,745 TO	
Purchase, NY 10577	18-6-1						
	ACRES 0.50						
	EAST-0726980 NRTH-0946656						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	16,700					
45.-3-128	31 Tone Rd	HOMESTEAD PARCEL					
45.-3-128	300 Vacant Land		COUNTY TAXABLE VALUE	19,635			
Putnam Seabury Partners	Brewster Centra 373001	19,635	TOWN TAXABLE VALUE		19,635		
C/O Schulweis Realty, Inc.	01800000060010000000	19,635	SCHOOL TAXABLE VALUE			19,635	
PO Box 607	04200000000000012904		FD015 Brewster Fire			19,635 TO	
Purchase, NY 10577	18-6-1						
	ACRES 0.59						
	EAST-0726932 NRTH-0946769						
	DEED BOOK 884 PG-00157						
	FULL MARKET VALUE	19,600					

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-129	23 Tone Rd	HOMESTEAD PARCEL			
45.-3-129	300 Vacant Land		COUNTY TAXABLE VALUE	20,485	
Putnam Seabury Partners	Brewster Centra 373001	20,485	TOWN TAXABLE VALUE	20,485	
C/O Schulweis Realty, Inc.	01800000060010000000	20,485	SCHOOL TAXABLE VALUE	20,485	
PO Box 607	042000000000000012904		FD015 Brewster Fire	20,485 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.61				
	EAST-0726944 NRTH-0946913				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	20,500			
45.-3-130	21 Tone Rd	HOMESTEAD PARCEL			
45.-3-130	300 Vacant Land		COUNTY TAXABLE VALUE	19,125	
Putnam Seabury Partners	Brewster Centra 373001	19,125	TOWN TAXABLE VALUE	19,125	
C/O Schulweis Realty, Inc.	01800000060010000000	19,125	SCHOOL TAXABLE VALUE	19,125	
PO Box 607	042000000000000012904		FD015 Brewster Fire	19,125 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.57				
	EAST-0726969 NRTH-0947044				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,100			
45.-3-131	19 Tone Rd	HOMESTEAD PARCEL			
45.-3-131	300 Vacant Land		COUNTY TAXABLE VALUE	19,380	
Putnam Seabury Partners	Brewster Centra 373001	19,380	TOWN TAXABLE VALUE	19,380	
C/O Schulweis Realty, Inc.	01800000060010000000	19,380	SCHOOL TAXABLE VALUE	19,380	
PO Box 607	042000000000000012904		FD015 Brewster Fire	19,380 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.58				
	EAST-0726940 NRTH-0947161				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	19,400			
45.-3-132	15 Tone Rd	HOMESTEAD PARCEL			
45.-3-132	300 Vacant Land		COUNTY TAXABLE VALUE	16,065	
Putnam Seabury Partners	Brewster Centra 373001	16,065	TOWN TAXABLE VALUE	16,065	
C/O Schulweis Realty, Inc.	01800000060010000000	16,065	SCHOOL TAXABLE VALUE	16,065	
PO Box 607	042000000000000012904		FD015 Brewster Fire	16,065 TO	
Purchase, NY 10577	18-6-1				
	ACRES 0.48				
	EAST-0726884 NRTH-0947259				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,100			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-133 **********					
45.-3-133 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	11 Tone Rd 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.49 EAST-0726846 NRTH-0947357 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 16,405 16,400	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	16,405 16,405 16,405 16,405 TO	
********** 45.-3-134 **********					
45.-3-134 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	9 Tone Rd 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.63 EAST-0726842 NRTH-0947477 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 20,910 20,900	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	20,910 20,910 20,910 20,910 TO	
********** 45.-3-135 **********					
45.-3-135 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	5 Tone Rd 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 0.61 EAST-0726790 NRTH-0947596 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 20,230 20,200	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	20,230 20,230 20,230 20,230 TO	
********** 45.-3-136 **********					
45.-3-136 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	3 Tone Rd 300 Vacant Land Brewster Centra 373001 018000000600100000000 042000000000000012904 18-6-1 ACRES 1.24 EAST-0726700 NRTH-0947760 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 41,395 41,400	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	41,395 41,395 41,395 41,395 TO	
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TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
45.-3-137	8 Howes Rd		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	16,065	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	16,065	TOWN TAXABLE VALUE	16,065	
PO Box 607	01800000020030000000	16,065	SCHOOL TAXABLE VALUE	16,065	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	16,065 TO	
	18-2-3				
	ACRES 0.48				
	EAST-0727336 NRTH-0948974				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	16,100			
45.-3-138	7 Bradshaw Ct		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	14,790	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	14,790	TOWN TAXABLE VALUE	14,790	
PO Box 607	01800000020030000000	14,790	SCHOOL TAXABLE VALUE	14,790	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	14,790 TO	
	18-2-3				
	ACRES 0.44				
	EAST-0727461 NRTH-0949012				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	14,800			
45.-3-139	9 Bradshaw Ct		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	26,945	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	26,945	TOWN TAXABLE VALUE	26,945	
PO Box 607	01800000020030000000	26,945	SCHOOL TAXABLE VALUE	26,945	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	26,945 TO	
	18-2-3				
	ACRES 0.81				
	EAST-0727622 NRTH-0949056				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	26,900			
45.-3-140	10 Bradshaw Ct		HOMESTEAD PARCEL		
Putnam Seabury Partners	300 Vacant Land		COUNTY TAXABLE VALUE	32,725	
C/O Schulweis Realty, Inc.	Brewster Centra 373001	32,725	TOWN TAXABLE VALUE	32,725	
PO Box 607	01800000020030000000	32,725	SCHOOL TAXABLE VALUE	32,725	
Purchase, NY 10577	033600000000000009801		FD015 Brewster Fire	32,725 TO	
	18-2-3				
	ACRES 0.98				
	EAST-0727693 NRTH-0948912				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	32,700			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-141 **********					
45.-3-141 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	8 Bradshaw Ct 300 Vacant Land Brewster Centra 373001 018000000020030000000 033600000000000009801 18-2-3 ACRES 0.96 EAST-0727634 NRTH-0948772 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 31,875 31,900	COUNTY TAXABLE VALUE 31,875 TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	31,875 31,875 31,875 31,875 TO	
********** 45.-3-142 **********					
45.-3-142 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	6 Bradshaw Ct 300 Vacant Land Brewster Centra 373001 018000000020030000000 033600000000000009801 18-2-3 ACRES 0.60 EAST-0727512 NRTH-0948757 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 19,890 19,900	COUNTY TAXABLE VALUE 19,890 TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	19,890 19,890 19,890 19,890 TO	
********** 45.-3-143 **********					
45.-3-143 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	2 Bradshaw Ct 300 Vacant Land Brewster Centra 373001 018000000020030000000 033600000000000009801 18-2-3 ACRES 0.61 EAST-0727407 NRTH-0948727 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 20,145 20,100	COUNTY TAXABLE VALUE 20,145 TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	20,145 20,145 20,145 20,145 TO	
********** 45.-3-144 **********					
45.-3-144 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	Barrett Rd 300 Vacant Land Brewster Centra 373001 018000000060010000000 042000000000000012904 18-6-1 ACRES 19.80 EAST-0727335 NRTH-0946466 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 7,905 7,900	COUNTY TAXABLE VALUE 7,905 TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	7,905 7,905 7,905 7,905 TO	

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
	Barrett Rd	HOMESTEAD PARCEL			
45.-3-145	300 Vacant Land		COUNTY TAXABLE VALUE	7,905	
Putnam Seabury Partners	Brewster Centra 373001		7,905 TOWN TAXABLE VALUE	7,905	
C/O Schulweis Realty, Inc.	01800000060010000000	7,905	SCHOOL TAXABLE VALUE	7,905	
PO Box 607	042000000000000012904		FD015 Brewster Fire	7,905 TO	
Purchase, NY 10577	18-6-1				
	ACRES 9.10				
	EAST-0726499 NRTH-0946353				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	7,900			
	Pugsley Rd	HOMESTEAD PARCEL			
45.-3-146	300 Vacant Land		COUNTY TAXABLE VALUE	7,905	
Putnam Seabury Partners	Brewster Centra 373001		7,905 TOWN TAXABLE VALUE	7,905	
C/O Schulweis Realty, Inc.	01800000020030000000	7,905	SCHOOL TAXABLE VALUE	7,905	
PO Box 607	033600000000000009801		FD015 Brewster Fire	7,905 TO	
Purchase, NY 10577	18-2-3				
	ACRES 23.32				
	EAST-0726248 NRTH-0947723				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	7,900			
	Pugsley Rd	HOMESTEAD PARCEL			
45.-3-147	300 Vacant Land		COUNTY TAXABLE VALUE	7,905	
Putnam Seabury Partners	Brewster Centra 373001		7,905 TOWN TAXABLE VALUE	7,905	
C/O Schulweis Realty, Inc.	01800000020030000000	7,905	SCHOOL TAXABLE VALUE	7,905	
PO Box 607	033600000000000009801		FD015 Brewster Fire	7,905 TO	
Purchase, NY 10577	18-2-3				
	ACRES 4.74				
	EAST-0726611 NRTH-0950552				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	7,900			
	Pugsley Rd	HOMESTEAD PARCEL			
45.-3-148	300 Vacant Land		COUNTY TAXABLE VALUE	7,905	
Putnam Seabury Partners	Brewster Centra 373001		7,905 TOWN TAXABLE VALUE	7,905	
C/O Schulweis Realty, Inc.	01800000020030000000	7,905	SCHOOL TAXABLE VALUE	7,905	
PO Box 607	033600000000000009801		FD015 Brewster Fire	7,905 TO	
Purchase, NY 10577	18-2-3				
	ACRES 9.76				
	EAST-0727611 NRTH-0949584				
	DEED BOOK 884 PG-00157				
	FULL MARKET VALUE	7,900			

TAX MAP PARCEL NUMBER / CURRENT OWNERS NAME / CURRENT OWNERS ADDRESS	PROPERTY LOCATION & CLASS / SCHOOL DISTRICT / PARCEL SIZE/GRID COORD	ASSESSMENT / LAND / TOTAL	EXEMPTION CODE / TAX DESCRIPTION / SPECIAL DISTRICTS	COUNTY / TOWN / SCHOOL TAXABLE VALUE	ACCOUNT NO.
********** 45.-3-31 **********					
45.-3-31 Putnam Seabury Partners C/O Schulweis Realty, Inc. PO Box 607 Purchase, NY 10577	23 Howes Rd 300 Vacant Land Brewster Centra 373001 01800000020030000000 03360000000000009801 18-2-3 ACRES 0.79 EAST-0727611 NRTH-0949584 DEED BOOK 884 PG-00157 FULL MARKET VALUE	HOMESTEAD PARCEL 140,420 140,420 140,400	COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire	140,420 140,420 140,420 140,420 TO	
********** 45.12-1-1 **********					
45.12-1-1 Meola Anthony Meola Susan 4 Spring Knolls Rd Brewster, NY 10509	4 Spring Knolls Rd 210 1 Family Res Brewster Centra 373001 04600000030010000000 00210000180000000000 46-3-1 FRNT 210.00 DPTH 180.00 ACRES 0.47 EAST-0735531 NRTH-0948182 DEED BOOK 782 PG-00887 FULL MARKET VALUE	HOMESTEAD PARCEL 62,000 309,100 309,100	VETWAR CTS 41120 BAS STAR 41854 COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire RG004 Southeast Garbage	0 46,365 46,365 46,365 0 0 0 49,340 262,735 262,735 213,395 309,100 TO 1.00 UN	
********** 45.12-1-2 **********					
45.12-1-2 Feifel Randy 12 Spring Knolls Rd Brewster, NY 10509	12 Spring Knolls Rd 210 1 Family Res Brewster Centra 373001 04600000030020000000 00100000200000000000 46-3-2 FRNT 100.00 DPTH 200.00 ACRES 0.47 EAST-0735620 NRTH-0948115 DEED BOOK 1609 PG-246 FULL MARKET VALUE	HOMESTEAD PARCEL 62,000 275,300 275,300	BAS STAR 41854 COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire RG004 Southeast Garbage	0 0 0 49,340 275,300 275,300 225,960 275,300 TO 1.00 UN	
********** 45.12-1-3 **********					
45.12-1-3 Carcich Living Trust Marco A Holly-Carcich Linda 16 Spring Knolls Rd Brewster, NY 10509	16 Spring Knolls Rd 210 1 Family Res Brewster Centra 373001 04600000030030000000 00081000200000000000 46-3-3 FRNT 81.00 DPTH 200.00 ACRES 0.45 EAST-0735709 NRTH-0948075 DEED BOOK 1888 PG-22 FULL MARKET VALUE	HOMESTEAD PARCEL 58,900 268,400 268,400	BAS STAR 41854 COUNTY TAXABLE VALUE TOWN TAXABLE VALUE SCHOOL TAXABLE VALUE FD015 Brewster Fire RG004 Southeast Garbage	0 0 0 49,340 268,400 268,400 219,060 268,400 TO 1.00 UN	

APPENDIX H-2

PHILLIPS PREISS GRYGIEL LEHENY HUGHES LLC
Planning & Real Estate Consultants

MEMORANDUM

To: Robert B. Peake, AICP

From: Keenan Hughes, AICP, CRE
Steven Martini, AICP

Date: May 24, 2018

Re: **Economic Impact Analysis**
Northeast Logistics Center, Town of Southeast, New York

The purpose of this memorandum is to assess the economic impacts of the proposed Northeast Logistics Center in the Town of Southeast, Putnam County, New York. The proposed 1,124,575-square foot facility is intended for modern e-commerce-oriented distribution which will include shipment, handling, consolidation, repackaging, labeling, assemblage, aggregation, trans-loading, refrigeration, management and storage. The project will be built on an approximately 328-acre property along both sides of Pugsley Road and Fields Corner Road.

In the DEIS Completeness Initial Comments, AKRF requested an economic impact analysis to assess potential economic benefits and impacts of the proposed project. The following describes the impacts to the local economy in terms of job creation and direct and indirect economic activity.

Methodology

Impact Analysis for Planning (IMPLAN) modeling was utilized in order to accurately assess the project's construction and operations phase impacts to the local economy. IMPLAN uses proprietary multipliers to evaluate the economic output, labor income and employment generated by a specific industry activity.

The following types of economic impacts will be generated in the local economy:

- *Direct Impacts*: Direct benefits are derived from short-term business activity, such as construction.
- *Indirect Impacts*: Indirect benefits relate to businesses that are directly impacted by the project, such as the purchase of supplies, materials, and other services provided to the project.
- *Induced Impacts*: Induced benefits include the spending and consumption of employees of businesses that are directly or indirectly affected by the project.

In performing this analysis, the project was broken down into two phases: construction phase and operations phase. The construction phase is the period of time from groundbreaking until the completion of the construction project. The operations phase refers to the impacts of the ongoing operations of the facility following its construction.

Local impacts were analyzed based on the zip code level data. For the construction phase, the local geography consisted of zip code 10509, which comprises the Town of

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Southeast. For the operations phase, the local impacts were based on zip codes 10509 and 10512, the latter of which encompasses the neighboring Town of Carmel.[1]

SUMMARY OF ECONOMIC IMPACTS

The following summarizes the local economic impacts of the Northeast Logistics Center based on two scenarios:

- Construction Phase
- Operations Phase

Construction Phase

According to the project sponsor, the estimated construction cost for the proposed development is approximately $80 million.

As shown in Table 1, it is estimated that approximately 600 jobs will be added to the local workforce during the construction phase. Of these construction jobs, approximately $36,124,258 in income will be paid to these workers. Indirectly, it is estimated that approximately $11,035,312 will be injected into the local economy from other firms conducting business related to the project. Induced output from spin-off effects (i.e. disposable income spending by project workers and workers associated with the project) will result in approximately $19,520,280 of economic activity.

In addition to the 600 construction jobs, approximately 150 indirect jobs will be created. These jobs will be at businesses providing goods and services to the project. Approximately 68 induced jobs will also be created, from businesses benefitting from the secondary spending by the project's construction workers.

Table 1: Summary of Economic Impacts - Construction Phase

	Direct Effect	Indirect Effect	Induced Effect	Totals
OUTPUT	$80,000,000	$11,035,313	$19,520,280	$110,555,593
LABOR WAGES	$36,124,258	$3,578,493	$5,808,914	$45,511,667
JOBS	600	68	150	818

Operations Phase

According to the project sponsor, the Northeast Logistics Center is expected to create approximately 665 permanent jobs when fully operational. The following describes the operations phase annual impacts which are summarized below in Table 2.

At full operation, it is anticipated that approximately $59,866,686 in direct economic output will be generated on an annual basis. Wages to be paid to the project's 665 employees will be $22,895,629 each year. Annual indirect output associated with firms conducting business with the project will result in $16,792,908. Regarding induced impacts, it is estimated that approximately $14,922,382 will be injected into the local economy annually from secondary spending by employees and businesses

[1] Zip code level analysis for 10509 alone was not available for the operations phase. For this reason, zip codes 10509 and 10512 were aggregated to form the local study area for the operations phase.

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associated with the project. In addition, 144 jobs are estimated to be generated indirectly and 110 locally induced jobs are also projected.

Table 2: Summary of Economic Impacts - Operations Phase

	Direct Effect	Indirect Effect	Induced Effect	Totals
OUTPUT	$59,866,686	$16,792,908	$14,922,382	$91,581,976
LABOR WAGES	$22,895,629	$4,786,389	$4,688,884	$32,370,903
JOBS	665	144	110	919

According to the 2012-2016 American Community Survey 5-Year Estimates, transportation, warehousing, and utilities accounted for 325 jobs (3.2%) in the Town. The project would be a significant generator of quality jobs in the warehouse and storage sector. According to New York State Department of Labor, the median wages for transportation storage, and distribution managers was $111,970 and transportation and materials moving occupations was $35,360, both in 2017[2]. Based on these economic projections, it can be determined that the development and implementation of the proposed project will have a positive impact on the economy of the Town of Southeast.

Conclusion

When aggregating direct, indirect and induced outputs from the construction phase, the project is expected to contribute $110,555,593 of economic output to the local Southeast economy. During the operations phase, the project is estimated to annually generate $91,581,976 in economic output to the Town's economy.

During the construction period, labor income is expected to reach $45,511,667 at the local level. During the operations period, labor income is projected total $32,370,903 towards the local economy on an annual basis.

Direct, indirect and induced jobs to be created during the construction phase are anticipated to reach 818 jobs at the local level. Approximately 919 jobs will be generated by the operation of the facility.

[2] New York State, Department of Labor, Occupational Wages. Hudson Valley Region. 2017.

APPENDIX J-1

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-1
LOCATION	SEE FIGURE 1	APPROX. ELEV.	626.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 2±'; Heavy seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 60 min/in @ Elv. 624.1 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with frequent cobbles and occasional Boulder (USCS: CL)	Medium Stiff to Stiff
8	Test Pit Completed at 8± Feet	
9		
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NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-2**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	628.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 2±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
2		
3	Percolation Rate: 120 min/in @ Elv. 626 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4		
5		
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9	Test Pit Completed at 8.5± Feet	
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NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-3**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	632±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Percolation Rate = 40 min/in @ Elv. 630	Medium Stiff
3	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	
4	(USCS: CL)	
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulders (USCS: CL)	Medium Stiff
6		
7		
8		
9		
10	Test Pit Completed at 9.5± Feet	
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NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-4**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	631.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6'10"±			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Percolation Rate = 30 min/in @ Elv. 629.1 Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medim Stiff to Stiff
9	Test Pit Completed at 9.1± Feet	
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NOTE:

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Fig.

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 5
LOCATION	SEE FIGURE 1	APPROX. ELEV.	618'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 3'4"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
2		
3	Percolation Rate = 40 min/in @ Elv. 616 Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
4		
5		
6		
7		
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10	End of Test Pit at 9.5± Feet	
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NOTE:

Fig.

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PROJECT NO.	9999	**PROJECT**	**Southeast, NY**	**TEST PIT NO.**	**STP- 6**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	613'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'10"±			**DATE EXCAVATED**	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL) Percolation Rate = 15 min/in @ Elv. 610.9	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
11	End of Test Pit at 10.5± Feet	
14		

NOTE:

Fig.

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PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-7**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	616.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6.5±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel	Medium Stiff
	(USCS: CL)	
2	Percolation Rate = 40 min/in @ Elv. 614.1	
3		
	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
4	with occassional cobbles	
	(USCS: CL)	
5		
6		to
7		
8		Stiff
9	Test Pit Completed at 8.5± Feet	
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NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-8**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	619.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light Brown/Yellow medium to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL) Percolation Rate = 120 min/in @ Elv. 617.1	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	
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NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-9**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	644.0±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 4±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS: CL) Percolation Rate = 40 min/in @ Elv. 641.9	
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
4	with occassional cobbles (USCS: CL)	
5		
6		
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10	Test Pit Completed at 9± Feet	
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NOTE:

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Fig.

PROJECT NO.	9999	**PROJECT**	**Southeast, NY**	**TEST PIT NO.**	**STP- 10**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	645'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Light seepage at 4'9"±; Heavy at 5'2"±			**DATE EXCAVATED**	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel	Medium Stiff
	(USCS : SC/CL)	
2	Percolation Rate = 20 min/in @ Elv. 642.8	
3		
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel,	Medium Stiff
	with occassional cobbles	
5	(USCS : SC/CL)	
6		to
7		
8		Stiff
9		
10	End of Test Pit at 9.0± Feet	
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NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	**Southeast, NY**	**TEST PIT NO.**	**STP- 11**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	645'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'6"±			**DATE EXCAVATED**	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	10" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL) Percolation Rate = 15 min/in @ Elv. 643.0	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
5	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL)	
9	End of Test Pit at 9.0± Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-12**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	645.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 4±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 60 min/in @ Elv. 643.0 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles (USCS: CL)	Medium Stiff
3		
4		
5		
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9	Test Pit Completed at 8.5± Feet	
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NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-13**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	639.0±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 4±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel	Medium Stiff
	(USCS: CL)	
2	Percolation Rate = 30 min/in @ Elv. 637.1	
3		
	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine	Medium Stiff
4	Gravel with occassional cobbles and boulder	
	(USCS: CL)	
5		
6		
7		
8		
9		
	Test Pit Completed at 9± Feet	
10		
11		
12		
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14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-14**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	639.0±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 10 min/in @ Elv. 636.9	Medium Stiff
3	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
5		
6		to
7		
8		
9		Stiff
10	Test Pit Completed at 9.25±'	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	**Prop. Logistics Center**	**TEST PIT NO.**	**STP-15**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	639.0±'	**INSPECTED BY**	JQ
WATER OBSERVATION	Light seepage at 4.5±'; Heavy seepage at 7±'			**DATE EXCAVATED**	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	9" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS: CL)	
	Percolation Rate = 2.3 min/in @ Elv. 636.7	
3		
	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine	Medium Stiff
4	Gravel with occassional cobbles	
	(USCS: CL)	
5		
6		to
7		
8		
		Stiff
9		
	Test Pit Completed at 9± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-16
LOCATION	SEE FIGURE 1	APPROX. ELEV.	638.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 15 min/in @ Elv. 635.8	Medium Stiff
3	Light Brown mottled Clayey Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	
4	(USCS: CL)	
5		
6		
7		
8		
9		
10	Test Pit Completed at 9± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig.

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 17**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	638'+	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown SILT, some medium to fine Sand, trace Gravel Percolation Rate = 30 min/in @ Elv. 636.1	Medium Stiff
5	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10	End of Test Pit at 10.1 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 18**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	640'+	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, and medium to fine Sand, trace Gravel	Medium Stiff
2		
3	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel Percolation Rate = 17.1 min/in @ Elv. 637.8	Medium Stiff
4		
5	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulder	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 19**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	649'+	**INSPECTED BY**	JQ
WATER OBSERVATION	8'+			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine Sand, some Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Dense
2		
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders Percolation Rate = 17.1 min/in @ Elv. 647.0	Medium Stiff
4		
5	Light-brown coarse to fine Sand, and mottled Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.5 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 20**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	648'+	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'5"			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown/yellow medium to fine Sand, and Silt, trace Gravel Percolation Rate = 30 min/in @ Elv. 645.9	Medium Dense
3	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Dense
5	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10	End of Test Pit at 10.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 21**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	638'+	**INSPECTED BY**	JQ
WATER OBSERVATION	Not Encountered			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	12" Topsoil	
1	Light-brown/yellow coarse to fine Sand, and Silt, trace Gravel	Medium Dense
2	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Stiff
3	Percolation Rate = 10 min/in @ Elv. 636.0	
4	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine	Medium Stiff
5	Gravel, with occassional cobbles	
6		to
7		
8		Stiff
9		
10	End of Test Pit at 9.5 Feet	
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 22**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	646'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 9'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel with occassional cobbles Percolation Rate = 30 min/in @ Elv. 644.0	Medium Stiff
5	Light-brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10		
11	End of Test Pit at 10.5 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 23**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	644'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
2		
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles Percolation Rate = 15 min/in @ Elv. 642.1	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.3 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 24**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	649'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'4"±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, some medium to fine Sand, trace Gravel	Medium Stiff
2	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel, Percolation Rate = 10 min/in @ Elv. 647.0	Medium Stiff
3		
4	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
5		
6		
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 25**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	657'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 5'6"±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, little coarse to fine Gravel	Medium Dense
2	Percolation Rate = 40 min/in @ Elv. 655.0 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
8	End of Test Pit at 8.0 Feet	
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 26**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	655'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6.5'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
2		
3	Percolation Rate = 13.3 min/in @ Elv. 652.9 Brown coarse to fine SAND, some Silt, trace Gravel	Medium Dense
4		
5		
6		
7	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
8		
9	End of Test Pit at 8.0 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 27**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	652'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 24 min/in @ Elv. 649.8	Medium Stiff
5	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 28**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	648'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 8'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2		
3	Percolation Rate = 7.2 min/in @ Elv. 645.8 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4		
5		
6	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
7		
8		
9	End of Test Pit at 8.5 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 29**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	657'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 10 min/in @ Elv. 654.9	Medium Dense
3	Brown/gray mottled SILT, some coarse to fine Sand, trace Gravel	Medium Stiff
9	End of Test Pit at 8.5 Feet	

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 30**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	655'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Light seepage at 5'5"±; Heavy at 6'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Percolation Rate = 30 min/in @ Elv. 652.9 Light-brown SILT, some coarse to fine Sand, trace Gravel, with occasional cobbles	Medium Stiff
3		
4	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
5		
6		
7		
8		
9		
10	End of Test Pit at 9.0 Feet	
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 31**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	652'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 7'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 10.9 min/in @ Elv. 649.8	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig.

SESI CONSULTING

PROJECT NO.	9999	**PROJECT**	Prop. Logistics Center	**TEST PIT NO.**	**STP- 32**
LOCATION	SEE FIGURE 1	**APPROX. ELEV.**	647'±	**INSPECTED BY**	JQ
WATER OBSERVATION	Seepage at 6.5'±			**DATE EXCAVATED**	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Percolation Rate = 12 min/in @ Elv. 644.9	
3	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
6		
7		
8	End of Test Pit at 8.0 Feet	
9		
10		
11		
12		
13		
14		

NOTE:

Fig.

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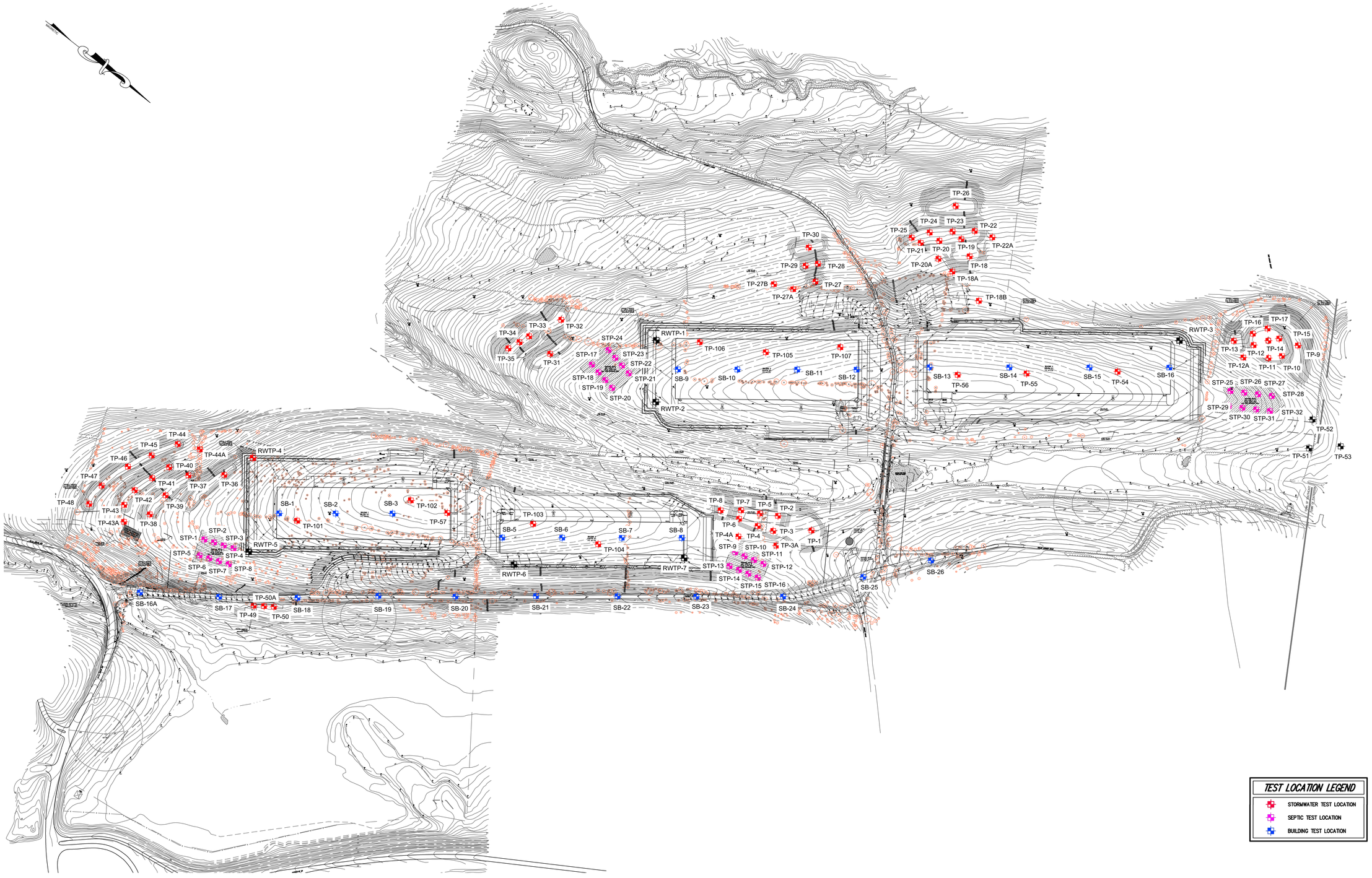

TEST LOCATION LEGEND

- STORMWATER TEST LOCATION
- SEPTIC TEST LOCATION
- BUILDING TEST LOCATION

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REFERENCE
SITE INFORMATION AND SOIL TESTS TAKEN FROM "SOIL TEST LOCATION PLAN" PREPARED BY JMC SITE DEVOLOPMENT CONSULTANTS, LLC. DATED 02/06/2018, REV. 2/28/2018.

NOTE:
THIS PLAN IS FOR LOCATING SOIL TESTS ONLY.
OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

rev	date	description	by

dwg by: yy
chk by: BB
scale: N.T.S.
date: 5/18/18

SESI
CONSULTING ENGINEERS D.P.C.
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE., PINE BROOK, N.J. 07058 PH: 973-808-9050

PROPOSED NORTHEAST INTERSTATE
LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

drawing title:
BORING AND TEST PIT LOCATION PLAN

job no. 9999
drawing no.
FIG-1

N:\ACAD\9999\9999 BORING AND TEST PIT LOCATION PLAN 2018-05-18.dwg, FIG-1, 5/21/2018 11:54:29 AM, 1:1

N:\ACAD\9999\9999 BORING AND TEST PIT LOCATION PLAN 2018-05-18.DWG 05/21/18 11:54:36AM jterry LAYOUT:FIG-1

APPENDIX K-1

PHASE IA ARCHAEOLOGICAL ASSESSMENT

NORTHEAST INTERSTATE LOGISTICS CENTER

SOUTHEAST PUTNAM COUNTY NEW YORK

PHASE IA ARCHAEOLOGICAL ASSESSMENT
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

Prepared For:

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William Sandy, M.A., RPA

February 2018

MANAGEMENT SUMMARY

SHPO Project Review Number (if available): **(former 05SR55415 and 05SR55416)**

Involved State and Federal Agencies: **ACOE, NYSDEC**

Phase of Survey: **Phase IA Archaeological Assessment**

Location Information
Location: **North and South side of Barrett Road, west of Pugsley Road**
Minor Civil Division: **Southeast - 07906**
County: **Putnam - 079**

Survey Area
Length: **varies**
Width: **varies**
Number of Acres Surveyed: **46.8**

U.S.G.S. 7.5 Minute Quadrangle Map: **Lake Carmel, New York.**

Archaeological Survey Overview
Number & Interval of Shovel Tests: **N/A**
Number & Size of Units:
Width of Plowed Strips:
Surface Survey Transect Interval:

Results of Archaeological Survey
Number & name of precontact sites identified: **N/A**
Number & name of historic sites identified:
Number & name of sites recommended for Phase II/Avoidance:

Report Authors(s): **Faline Schneiderman, M.A., RPA, Julie Abell Horn, MA, RPA. and William Sandy, M.A., RPA, Historical Perspectives, Inc.**

Date of Report: **February 2018**

EXECUTIVE SUMMARY

The proposed Northeast Interstate Logistics Center (NILC) development, located in the northwest section of Southeast, Putnam County, New York, has frontages on both Barrett Road and Pugsley Road. The 167-acre overall Project Site is bounded on the north by the Patterson Town line, on the east by Pugsley Road, on the south by NYS Route 312 and the Putnam County Tilly Foster Farm, and on the west by wetlands within the Twin Brook residential development. The proposed development would entail the construction of a four warehouses and associated infrastructure.

The proposed development has initiated an environmental review through the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) and the Town of Southeast. A Phase I Archaeological Survey is requested prior to construction in order to establish the potential archaeological sensitivity of the portion of the Project Site that would experience subsurface impacts, defined as the Area of Potential Effect (APE). If indicated, Phase IB field testing – designed to ascertain the presence or absence of archaeological resources - would be recommended.

A large portion of the Project Site was previously subjected to Phase IA documentary research and Phase IB archaeological field testing in 2005, for a project known as Campus at Field Corner (HPI 2005; OPRHP #05SR55415 and #05SR55416). The combined Phase I report detailing the results of the documentary study and field survey, including the completion of 1189 shovel tests, was submitted to and accepted by OPRHP (R. Pierpont, OPRHP 5/20/2005). Prior plans to develop the site (2004) established the APE in a different configuration than the one proposed for the current development. The two APEs overlap, in part, so those locations previously subjected to Phase IB testing as per OPRHP standards (New York Archaeological Council 2004; OPRHP 2005) are precluded from this study. Therefore, the 2017 APE includes only locations where subsurface impacts from development and infrastructure work are proposed, minus the locations that were previously subjected to Phase IB testing.

Documentary research found that the APE lies in a region of known precontact use, although the extensive survey of the adjacent Campus at Fields Corner APE in 2005 by HPI identified no precontact resources on land with similar characteristics, despite the completion of 1189 shovel tests. Therefore, while the APE is considered to be potentially sensitive for precontact resources, sensitivity is considered to be only moderate and in only those locations that have no prior disturbance, have less than a 12% slope, and have no standing water. The walkover survey of the property identified relatively level locations in proximity to fresh water that could have once hosted Native American encampments, although no such resources have been previously documented for the project site.

Documentary research also found that the site has only a low potential for historical period cultural resources since structures were not mapped in the APE until the 1960s. However, the earliest map showing nearby development (1854) depicted a residential complex to the immediate north of Barrett Road, and a dwelling immediately south of Barrett Road at its intersection with Fields Corner Road, all adjacent to but north and out of the APE. Therefore, there is historic archaeological potential in locations near the former locations of these mapped historic structures, but it is considered to be low due to their distances from the APE. In addition, there is the potential for unmapped farm-related structures to have stood in the APE. The walkover survey identified five historical farm-related features, all dating to the latter half of the twentieth century. Where visibility was low due to the presence of brush, there is the potential for additional farm-related features to exist.

The results of the Phase IA documentary assessment indicate that the NILC APE has moderate potential for precontact archaeological deposits where slopes are less than 12% and the land is not obviously disturbed by twentieth century farm-related features, and is also sensitive for additional historic archaeological farm-related features. There is also sensitivity for historic domestic features near mapped historic structures, although the distance of these structures from the APE renders this sensitivity low. Therefore, Phase IB archaeological testing, as per OPRHP guidelines is recommended.

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A. Soils Report, U.S.D.A. 2017

B. Soil Boring Logs, John Meyer Consulting 1987

FIGURES

1. Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 2016).

2a. Proposed Development, Project Area, and Area of Potential Effect (JMC 2017).

2b. Project Site Boundaries, Area of Potential Effect, Photograph Key and Feature Key on Existing Conditions Plans (JMC 2017).

3. Phase IB Testing, Campus at Field Corners (HPI 2005).

4. Project site and APE on *Map of Putnam County, New York* (O'Connor 1854).

5. Project site and APE on *Map of the Town of Southeast, New York* (Beers 1867).

6. Project site and APE on *Map of Putnam County, New York* (Reed 1876).

7. Project site and APE on *Carmel, New York* 15 Minute Quadrangle (U.S.G.S. 1892).

8. Project site and APE on Carmel, New York 15 Minute Quadrangle (U.S.G.S. 1928).

9. Project site and APE on *Acreage Ownership Map of Putnam County, New York* (Dolph & Stewart 1930s).

10. Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 1944).

11. Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 1960).

12. Project site and APE on *South East Lake Tonetta Bog Brook Reservoir Middle Branch Reservoir* (American Air Surveys 1963).

13. Areas of Potential Archaeological Sensitivity on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 2016).

PHOTOGRAPHS

Photograph 1: View looking north at thick vegetation on the north side of Barrett Road near its intersection with Fields Corner Road.

Photograph 2: View looking east at a recently cleared area south of the Barret Road, Fields Corner Road, and Pugsley Road intersection.

Photograph 3: View looking west at heavy brush west of Pugsley Road.

Photograph 4: View looking west at heavy brush west of Pugsley Road.

Photograph 5: View looking west at a recently cleared area west of Pugsley Road.

Photograph 6: View looking west in the south part of the project area.

Photograph 7: View looking north at Feature 1, a livestock watering unit on the south side of Barrett Road.

Photograph 8: View looking west at Feature 2, ruins of a concrete lined livestock watering unit.

Photograph 9: View looking north at Feature 3, a small section of a concrete block wall.

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Photograph 11: View looking east at Feature 5, a livestock watering unit.

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Photograph 13: View looking east at the ditch on the farmstead, left of archaeologist Sandy.

I. INTRODUCTION

The proposed Northeast Interstate Logistics Center (NILC) development, located in the northwest section of Southeast, Putnam County, New York, has frontages on both Barrett Road and Pugsley Road. The 167-acre overall Project Site is bounded on the north by the Patterson Town line, on the east by Pugsley Road, on the south by NYS Route 312 and the Putnam County Tilly Foster Farm, and on the west by wetlands within the Twin Brook residential development (Figure 1). The proposed development would entail the construction of a four warehouses and associated infrastructure (Figure 2a).

The proposed development has initiated an environmental review through the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) and the Town of Southeast. A Phase I Archaeological Survey is requested prior to construction in order to establish the potential archaeological sensitivity of the portion of the Project Site that would experience subsurface impacts, defined as the Area of Potential Effect (APE). If indicated, Phase IB field testing – designed to ascertain the presence or absence of archaeological resources - would be recommended.

A large portion of the Project Site was previously subjected to Phase IA documentary research and Phase IB archaeological field testing in 2005, for a project known as Campus at Field Corner (HPI 2005; OPRHP #05SR55415 and #05SR55416). The combined Phase I report detailing the results of the documentary study and field survey, including the completion of 1189 shovel tests, was submitted to and accepted by OPRHP (R. Pierpont, OPRHP 5/20/2005). Prior plans to develop the site (2004) established the APE in a different configuration than the one proposed for the current development. The two APEs overlap, in part, so those locations previously subjected to Phase IB testing as per OPRHP standards (New York Archaeological Council 2004; OPRHP 2005) are precluded from this study. Therefore, the 2017 APE includes only locations where subsurface impacts from development and infrastructure work are proposed, minus the locations that were previously subjected to Phase IB testing (see Figures 2a, 2b, and 3).

This Phase IA Archaeological Assessment was prepared to satisfy the requirements of New York State's environmental review process and Section 106 of the National Historic Preservation Act, and complies with the standards of the OPRHP (New York Archaeological Council 1994; OPRHP 2005). The following sections present the tasks completed for the Phase IA study.

II. METHODOLOGY AND CURRENT CONDITIONS

A. RESEARCH GOALS AND METHODS

The documentary review is designed to address two major questions: what is the potential for the NILC APE to have hosted precontact and historic era archaeological resources of significance and, what is the likelihood that such resources have survived the subsurface disturbances concomitant with subsequent use of the site, including past farm-related activities.

In order to evaluate the potential of recovering precontact cultural remains at the NILC APE, it was essential to:

- establish the predevelopment conditions of the project site to determine if it may have been hospitable for use by Native Americans;
- understand regional Precontact settlement strategies to determine how the project site may have been utilized by Native Americans;
- establish the historical use of the property and any residential episodes; and,
- document prior disturbance episodes that may have eliminated potential archaeological site integrity.

Sufficient information was gathered to compare, both horizontally and vertically, the precontact past, the historical past, and the subsurface disturbance record. In particular, research focused on establishing the extent of prior subsurface disturbance caused by twentieth-century land use. In order to answer these questions, a series of research tasks were undertaken to collect, synthesize, and review pertinent data in order to establish if Phase IB field testing is warranted.

For the Phase IA study, the contextual overview encompassed the APE, identifying potentially sensitive areas. The following tasks were undertaken study:

Documentary Research: In order to place the project site in a historical context, local and regional histories were reviewed. Historical Perspectives' prior work in Putnam County helped to provide a basis for much of the contextual overview.

Site File Search: A site file search for inventoried archaeological and historical sites was conducted on both the local and state levels. Nomination and designation files for any pertinent and/or neighboring properties were also researched. Recent work in the area by both professional and amateur archaeologists was reviewed.

Cartographic Review: A cartographic review was conducted to identify land ownership and use of the land through time. This was essential for establishing historical and modern deposition and disturbance episodes. Historical maps and atlases were collected from the New York Public Library, the Putnam County Archives, and from various on-line sources. Historical maps provided information on land owners and development, while more modern maps provided data on twentieth century disturbance.

Walkover Survey: A photo record of the current conditions of the property was completed on December 7, 2017, after trees had defoliated. The walkover survey noted the current conditions of surface integrity and obvious signs of prior subsurface disturbance. A photograph key is provided on Figure 2b.

B. EXISTING CONDITIONS/RESULTS OF WALKOVER SURVEY

The NILC Project Site is located in the northwest section of Southeast, New York. The Project Site has frontages on both Barrett Road and Pugsley Road, with a small section abutting Fields Corner Road. The Project Site is bounded on the north by the Patterson Town line, on the east by Pugsley Road, on the south by NYS Route 312 and the Putnam County Tilly Foster Farm, and on the west by wetlands within the Twin Brook residential development. The Middle Branch of the Croton River runs north to south within a half mile to the west, with a stream running through the NILC APE draining into the river to the southwest. Wetlands that were historically depicted as "peat beds" lie within 500 feet to the east on the east side of Pugsley Road.

The APE for the NILC site is defined as the maximum extent of impact for the construction of the development, including parking areas, entrance drives, storm water retention basins or wetland mitigation areas, landscaped areas, and all associated utility routes. As discussed, it does not include sections of the site that were previously subjected to Phase IB archaeological testing (HPI 2005) to established OPRHP Standards (New York Archaeological Council 2004; OPRHP 2005). It also precludes locations with standing water and slopes greater than 12 percent. Therefore, while the current project site encompasses 167 acres, the APE includes 46.8 acres (see Figures 2a, 2b, and 3).

A pedestrian survey of the 46.8 acre APE was completed on December 7, 2017 by William Sandy and Mike Thomas. Photographs were taken, existing features were noted, and obvious signs of disturbance were recorded (see Figure 2b Photograph Key and Photographs 1-13).

Much or of the area examined is characterized by overgrown former farm fields. The open fields were once separated by stone wall fences and hedgerows, but now most of the APE is a tangle of dense underbrush, small trees, and wild rose. Prior to the walkover survey, broad swaths and a series of trails were cut through the brush to allow site access. HPI archaeologists followed these trails, but roughly 90 percent of the APE was not visible to review due to dense thicket.

The section of the APE north of Barrett Road is heavily overgrown brush and small trees, with larger trees near the stone fence lines (Photograph 1). The area on the south side of Barrett Road in the APE near Pugsley Road was cleared to a point roughly between 37m (75ft) to 30m (100ft) south of the road (Photograph 2). The area to the southwest of the intersection had a mapped structure on the 1854 map (O'Connor 1854), but there was no visible evidence of this structure, possibly because of road realignment over its former location. Most of the APE west of Pugsley Road is heavily overgrown with brush and small trees, also with a series of trails cut through it (Photographs 3-6). No evidence of buildings, structures, or artifacts was observed along the trails where the surface was visible.

In the northwestern part of the APE, there are the remains of a farmstead immediately south of Barrett Road. In 2005 when the prior Phase IA/IB study was completed, the existing conditions plan showed two buildings sited in what is now the current APE (see Figure 3). One was depicted as long and narrow running north to south, and was likely a cattle barn. The other was small, rectangular, and immediately adjacent to Barrett Road. Neither building is extant, although remnants of them and other livestock-related features were observed in the field as described below. Each of these farm-related features was given a Feature number and locations were mapped on Figure 2b.

Feature 1, an electrically powered livestock watering unit filled to a depth of 80cm (2.6ft), was identified immediately south of Barrett Road (Figure 2b; Photograph 7). Feature 2 is also likely a livestock watering unit that has been truncated (Figure 2b; Photograph 8). Feature 3 is a section of a concrete block wall, possibly the west wall of the barn mapped on the Existing Conditions Plan in 2005 (see Figures 2b and 3; Photograph 9). Feature 4 is the remains of a silo base that once likely supplied animals in the barn with feed (Figure 2b; Photograph 10). Feature 5 is an intact livestock watering unit (Figure 2b; Photograph 11). One of the units is embossed with *NELSON MANUFACTURING COMPANY, CEDAR RAPIDS, IOWA USA* (Photograph 12). Research found that Nelson Manufacturing was founded in 1949, suggesting that the feature dates to the second half of the twentieth century (www.nelsonmfg.com). South of these features is a ditch with a pile of excavated soil at its north side (Figure 2b; Photograph 13). The ditch measures 6m (19.8ft) in width, about 25m (82.5 ft) long, and between 1m (3.3ft) and 2m (6.6ft) deep. The area south and east of these identified features has silo-related debris and equipment strewn around, including a "Little Giant" conveyor belt, and a conveyor belt on wheels. Also present in this area are broken cinder blocks and debris.

Table 1 provides a summary of feature types identified in the APE as well as their observable sizes. It is possible that additional remnants of these features, as well as others, are buried and no longer visible on the landscape.

TABLE 1: Summary of Site Features Identified in the Walkover Survey (keyed to locations on Figure 2b)

Feature No.	Feature Type	Size
1	Livestock waterer	1.5m x 1.2m (5ft x 4ft)
2	Livestock waterer	2.0m x 1.5m (6.6ft x 5ft)
3	Wall segment	3.6m x 0.3m x 0.4 (11.9ft x 1.0ft x 1.3ft)
4	Silo base	5.0m (16.5ft) diameter
5	Livestock waterer	1.3m x 1.4m (4.3ft x 4.6ft)

No areas of obvious disturbance were observed during the walkover survey beyond the location of former farm-related structures.

C. SOILS

Numerous soil types are mapped for the NILC, as shown in Appendix A (U.S.D.A. 2017). These soils are described in Table 2 below.

TABLE 2: Soil Types in the Area of Potential Effect (APE)

Map Unit Symbol	Map Unit Name	Acres in APE	Drainage Class	Landforms
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	49.5	well drained	hills, drumlins, ground moraines
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	26.5	well drained	drumlins, ground moraines, hills
RdB	Ridgebury loam, 3 to 8 percent slopes	2.0	somewhat poorly drained	hills, till plains, drumlinoid ridges
Sh	Sun loam	4.6	very poorly drained	depressions
Sm	Sun loam, extremely stony	0.6	very poorly drained	depressions
WdA	Woodbridge loam, 0 to 3 percent slopes	2.0	moderately well drained	hills, drumlins, ground moraines

WdB	Woodbridge loam, 3 to 8 percent slopes	2.6	moderately well drained	drumlins, ground moraines, hills
WdC	Woodbridge loam, 8 to 15 percent slopes	3.0	moderately well drained	drumlins, ground moraines, hills

The majority of the soils in the APE are described as well drained and have slopes of less than 15 percent. Poorly drained soils are concentrated around wetland areas near the intersection of Barrett Road and Pugsley Road, immediately outside of the APE (Figure 2b).

- **Soil Boring Logs**

Soil borings and soil test pits were completed across the APE in 1987 (John Meyer Consulting 1987). A total of eight borings were taken west of Pugsley Road in the APE, Borings B-1 through B-8, as well as multiple soil tests. The results of these showed the following subsurface conditions:

> The soils encountered…were predominantly uniform throughout the site. Each soil boring and test pit excavation revealed a layer of topsoil, typically to a depth of approximately 1+ foot below existing grade. Underlying the topsoil, a dense to very dense silt and clayey silt with varying amounts of sand and gravel was encountered. This material was present through the completion depths of the soil borings and test pit excavations. Boulders and cobbles were also present throughout the site profile. Seven of the test pits encountered refusal and/or water seepage on cobbles and boulders (John Meyers Consulting 1987:3).

No evidence of unconsolidated fill was observed across the site, however in some test locations, groundwater was encountered as shallow as two feet below grade (Ibid.; see Appendix B). Further, he soil borings did not record obvious disturbance and therefore soils are likely still intact.

III. CONTEXTUAL OVERVIEW

A. PRECONTACT PERIOD

Archaeologists active in the Putnam County area have established regional models of precontact subsistence and settlement patterns, based on known archaeological data. These models, while tentative, provide archaeologists with a baseline for understanding potential resources within the region. An understanding of previously identified archaeological sites in the region and previously completed archaeological surveys helps to establish a model of precontact land use that can then be applied to the project site.

- **Known Precontact Sites in the Vicinity**

A site file search revealed that there are three previously reported precontact period sites within a one mile radius of the project site that have been inventoried at the OPRHP, while there are no such sites inventoried at the New York State Museum (NYSM) (see Table 3 below).

TABLE 3: Summary of Previously Identified Precontact Archaeological Sites Within One Mile

OPRHP Site #	Name	Distance from APE	Time Period	Site Type
7906.000044	Rockshelter Archeological Site (DiMarco Rockshelter)	.5 miles east	Contact, Historic Native American	Rockshelter
7906.000068	Terravest Precontact Quarry Site	.7 miles east	Unknown precontact	Quarry, Workshop
7906.000069	Terravest Precontact Site	.7 miles east	Unknown precontact	Workshop

The DeMarco Rockshelter site (07906.000044) was identified as a multicomponent site with reported evidence of precontact and historical use. A bayonet and a coin, dated to 1749, indicate a pre-Revolutionary component.

However, the precontact material found at the site – if any – is not listed on the site inventory form. The two undated precontact sites (07906.00068 and 07906.000069) produced quartz flakes, blocks, cores, and shatter fragments, but no diagnostic material, and were found as part of an archaeological survey of the Terravest Corporate Park property, situated about three-quarters of a mile east of the NILC APE.

In addition to the three inventoried sites reported in the site file search, a fifth precontact site was identified within close proximity to the NILC APE but did not turn up in the current OPRHP inventory. In 1997, Hartgen Associates conducted archaeological field investigations at a small parcel of land immediately east of I-84 and north of Route 312, about .5 miles east of the current NILC project site (Hartgen 1997, 1998). Parcel 1 of that survey contained a small precontact site occupying a roughly 7,500 square foot area that contained several chert and quartz flakes, a worked chert cobble core, and quartz shatter (Ibid.). Site preservation or additional testing was recommended.

- **Prior Phase IB Archaeological Survey: Campus at Field Corners**

The presence of these precontact sites in proximity to the NILC APE indicates that Native Americans were utilizing the area for at least several thousand years, if not more. Because of these findings, the previous Phase IA documentary study of the 327-acre Campus at Fields Corner project site which abuts the NILC APE concluded that it was sensitive for both precontact archaeological deposits (HPI 2005). However, Phase IB field testing of the 118.34 APE in 2005 failed to find any precontact artifact concentrations or deposits of significance through the excavation of 1,189 shovel tests (STs). Several STs contained chert flakes and one produced a bifacially worked tool, but testing arrays around these locations did not contain any additional precontact material (HPI 2005).

The lack of any precontact activity areas identified from the terrain immediately adjacent to the current 2017 NILC APE suggests that there is only moderate sensitivity for precontact resources at the site.

B. HISTORICAL PERIOD

At the time of European arrival, Putnam County was occupied by Wappinger Indians. Shortly thereafter, European traders, farmers, and craftsmen established themselves along major and secondary waterways. In 1691 Adolph Philipse of New York City purchased most of the county's land, and leased large tracts to tenant farmers. In 1730 settlers arrived in what is now Southeast, originating from Massachusetts, Connecticut, Long Island, and Westchester County. Samuel Field, one of the first settlers in town, arrived in 1732. Together with David Townsend, another early settler, the two purchased much of the southeastern corner of what is now Putnam County, including lands in the Town of Southeast, through the 1880s (Pelletreau 1885:413).

In 1737, what is now Putnam County was designated as the South Precinct of Duchess [sic] County, and remained under the ownership of Adolph Philipse. After his death, in 1754 the Patent was divided into nine lots and willed to three heirs, Mary Philipse, Philip Philipse, and Susannah Philipse Robinson. The project site fell within Lot 8, deeded to Philip Philipse. Since the Philipses were Tories during the American Revolution, after the war their land was confiscated and sold to tenant farmers (Pelletreau 1885:92).

By 1776, the South Precinct of Dutchess County was subdivided into the Philips, Fredericksburgh, and South East Precincts. The town of Southeast later was formed in 1795 from part of Fredericks Town, formerly Fredericksburgh, and the south half of the South East Precinct. In 1812 Putnam County became an entity separate from Dutchess County. Like most of the surrounding land, the NILC project site was probably used for pasturage, as the land in Southeast was better adapted to grazing than grain production (Blake 1849:287).

In 1849 the New York & Harlem Railroad (now the Harlem Line of the Metro North Railroad) extended from New York to Pawling (Howe, et al 1982:4), spurring the local economies based on dairy farming, mills, and small factories. During the 1860s, Southeast continued to grow steadily, sporting a wool hat factory and numerous mills. In 1864 Gail Borden established the Borden Condensed Milk Company in Brewster village, prompting an increase in the labor force and a demand for locally sourced fresh milk (Ibid.:5). Many of the local farmers quickly turned their sights to dairying. In the latter half of the nineteenth century, iron and mineral mining was heavily pursued in Southeast, including the Tilly Foster Mine to the southwest of the Project Site. Tilly Foster was known as an open pit mine, but it also had a "lower

mine" of underground shafts and galleries. By 1885 the mine was 600 or more feet deep. In 1897 the mine was flooded by water from the Middle Branch reservoir, and it was officially closed by New York State (*Iron Mining in Southeast*).

The twentieth century brought a growth of population to the Town of Southeast as transportation improvements made access to the nearby metropolis of New York City more accessible. Modern development to the south, west, and east of the NILC APE includes the construction of I-84 and the Route 312/I-84 interchange in the early 1970s, and the more recent development of the retail center on Independent Way, south Route 312 and east of Pugsley Road.

Historical maps and atlases indicate that the project site had structures on or near it throughout the historical period (see Table 4 below). For ease of discussion, modern road names are referenced in Table 4.

TABLE 4: Summary of Historical Development

SOURCE AND DATE	STRUCTURES IN OR IMMEDIATELY ADJACENT TO THE NILC AREA OF POTENTIAL EFFECT (APE)
1829 Burr	No roads or structures are mapped in or near the APE.
1854 O'Connor (Figure 4)	No structures depicted in APE. One unlabeled structure south of Barrett Road opposite intersection with Field Corners Road in 2005 APE. Uriah Townsend farm complex north of Barrett Road in 2005 APE. P. R. Whitney & Co. complex east of Pugsley Road near Route 312 out of APE.
1867 Beers (Figure 5)	No structures depicted in APE. J. T. Barrett dwelling north of Barrett Road in 2005 APE. P. R. Whiting structures east of Pugsley Road near Route 312 out of APE.
1876 Reed (Figure 6)	No structures depicted in APE. J. T. Barrett dwelling north of Barrett Road in 2005 APE. P. R. Whiting structures east of Pugsley Road near Route 312 out of APE.
1892 U.S.G.S. (Figure 7)	No structures depicted in APE. One structure north of Barrett Road in 2005 APE. One structure far south of Barrett Road on edge of APE. One structure east of Pugsley Road near Route 312 out of APE.
1928 U.S.G.S. (Figure 8)	No structures depicted in APE. One structure north of Barrett Road in 2005 APE. One structure far south of Barrett Road on edge of APE. One structure east of Pugsley Road near Route 312 out of APE.
1930 Dolph and Stewart (Figure 9)	(No structures depicted anywhere on this map) P. Pugsley owns 133ac. Farm in APE.
1944 U.S.G.S. (Figure 10)	No structures depicted in APE. One structure north of Barrett Road in 2005 APE. One structure east of Pugsley Road near Route 312 out of APE.
1960 U.S.G.S. (Figure 11)	One structure outlined (not solid) south of Barrett Road in APE. One structure extant and one outlined north of Barrett Road in 2005 APE. Four structures east of Pugsley Road near Route 312 out of APE.
1963 Aerial (Figure 12)	One or more structures south of Barrett Road in APE. One structure (barn) far south of Barrett Road south of APE. Several structures on north side of Barrett Road in 2005 APE. Several structures east of Pugsley Road near Route 312 out of APE.
1981 U.S.G.S.	Two structures north of Barrett Road in 2005 APE.

The review of maps and atlases identified mapped structures on the north side of Barrett Road in the 2005 APE from 1854 onward (Figures 4-12), but no structures were depicted in the APE until the 1960s (Figures 5-12). In 1960 and 1963 one or more structures were visible in the APE opposite the farm complex on the north side of Barrett Road, including one long rectangular structure that may have been a barn (U.S.G.S. 1960, Figure 11; American Air Surveys 1963, Figure 12). By 1981, no structures were mapped in the NILC APE (U.S.G.S. 1981).

- **Known Historical Period Archaeological Sites in the Vicinity**

Prior cultural resource surveys undertaken nearby in the Town of Southeast have identified historical period resources of merit. Three previously inventoried historical period sites within one mile of the NILC APE site were identified in the records of OPRHP (see Table 5 below):

TABLE 5: Summary of Previously Identified Historical Sites Within One Mile

OPRHP Site #	Name	Distance from APE	Time Period	Site Type
7901.000062	Cellar Hole, Former Tenant Farmer House (Ineligible)	.6 miles west	Mid-twentieth century	Historic foundation
7906.000045	Eighteenth Century Historic Archeological Site	.6 miles east	Eighteenth to twentieth century	Historic deposit
7906.000055	Sherwood House	.4 miles southeast	Early to mid-nineteenth century	Historic Structure

The historic archaeological site (07906.000045) was identified during the survey of a tract of land about .6 miles east of the NILC APE, near Zimmer Road, which was historically the eastward continuation of Barrett Road before I84 was constructed. Historical maps dating from 1854 onward showed a structure in this location, and archaeological testing identified nineteenth-century redware, white earthenware, and twentieth-century porcelain and glass (Hartgen 2001, 2002). None of the archaeological material was found associated with an intact historical feature. The second identified historical site (07906.000055) is a Greek Revival house that stands on the south side of Route 312, immediately west of I84. Archaeological testing at the site identified pearlware, whiteware, stoneware, redware, and yellowware fragments (Hartgen 1997, 1998). No historical deposits were associated with any buried historic features, and the house itself was found to lack architectural integrity, and was determined ineligible for inclusion on the National Register of Historic Places (NR).

IV. ARCHAEOLOGICAL POTENTIAL

A. PRECONTACT RESOURCES

Documentary research found that the APE lies in a region of known precontact use, although the extensive survey of the adjacent Campus at Fields Corner APE in 2005 by HPI identified no precontact resources on land with similar characteristics, despite the completion of 1,189 shovel tests. Therefore, while the APE is considered to be potentially sensitive for precontact resources, sensitivity is considered to be only moderate and in only those locations that have no prior disturbance, have less than a 12% slope, and have no standing water. The walkover survey of the property identified relatively level locations in proximity to fresh water that could have once hosted Native American encampments, although no such resources have been previously documented for the project site (Figure 13). Further, soil borings from 1987 that fall within this APE showed intact soils and no disturbance.

B. HISTORICAL RESOURCES

Documentary research found that the site has only a low potential for historical period cultural resources since structures were not mapped in the APE until the 1960s. However, the earliest map showing nearby development (1854) depicted a residential complex to the immediate north of Barrett Road, and a dwelling immediately south of Barrett Road at its intersection with Fields Corner Road, all adjacent to but north and out of the APE. Therefore, there is historic archaeological potential in locations near the former locations of these mapped historic structures, but it is considered to be low due to their distances from the APE (Figure 13). In addition, there is the potential for unmapped farm-related structures to have stood in the APE. The walkover survey identified five historical farm-related features, all dating to the latter half of the twentieth century. Where visibility was low due to the presence of brush, there is the potential for additional farm-related features to exist (Figure 13).

V. CONCLUSIONS AND RECOMMENDATIONS

The results of the Phase IA documentary assessment indicate that the NILC APE has moderate potential for precontact archaeological deposits where slopes are less than 12% and the land is not obviously disturbed by twentieth century farm-related features, and is also sensitive for additional historic archaeological farm-related features. There is also sensitivity for historic domestic features near mapped historic structures, although the distance of these structures from the APE renders this sensitivity low (Figure 13). Therefore, Phase IB archaeological testing as per OPRHP guidelines is recommended.

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2009 *Soil Survey (SSURGO) for Putnam County, New York.* U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, Texas.

U.S.G.S. Topographic Survey Map
1892 *Carmel NY-CT Quadrangle.* 15 Minute Series.

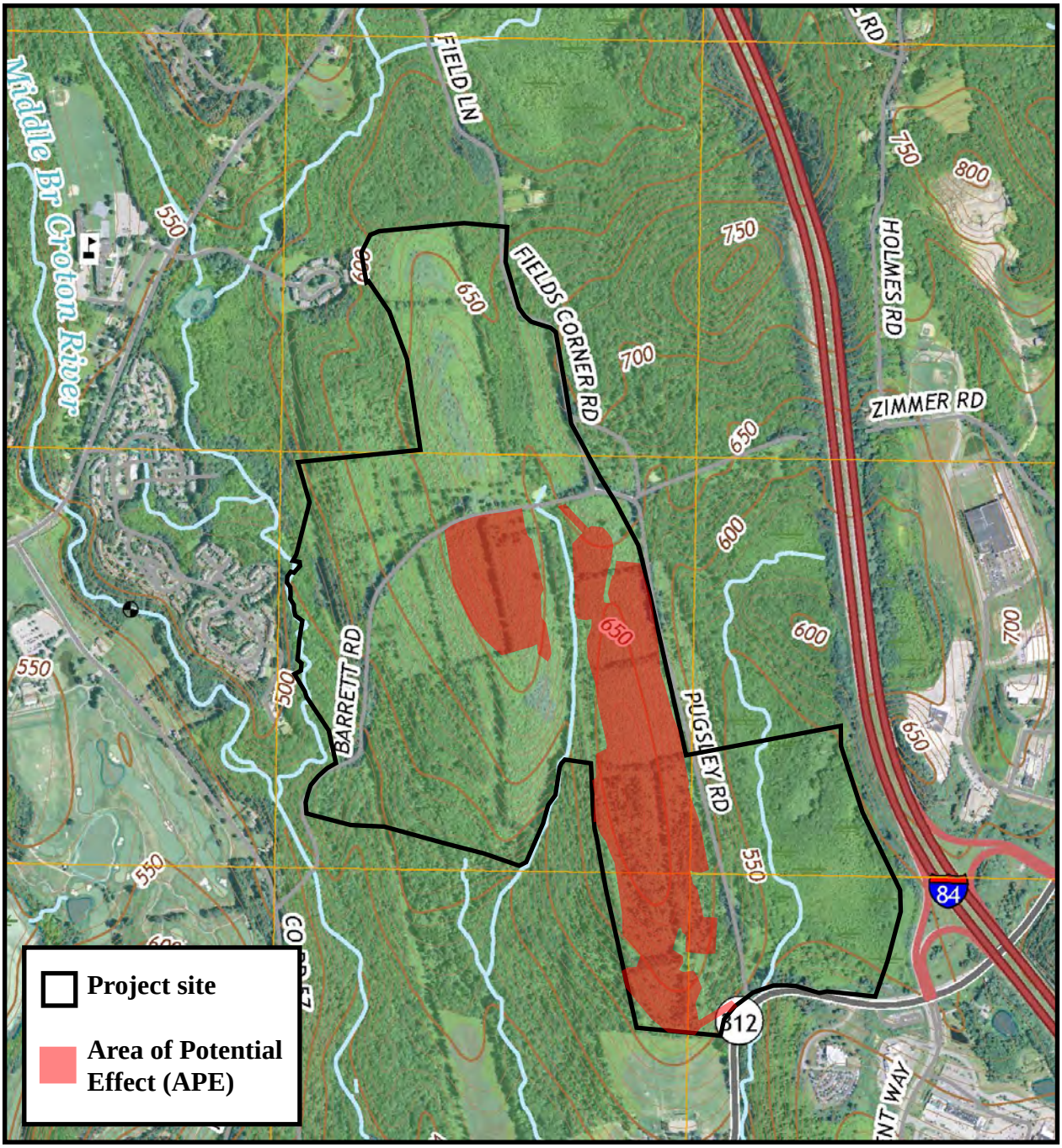
1928 *Carmel NY-CT Quadrangle.* 15 Minute Series.

1944 *Lake Carmel NY Quadrangle.* 7.5 Minute Series.

1960 *Lake Carmel NY Quadrangle.* 7.5 Minutes Series.

1981 *Lake Carmel NY.* Update of 1960. 7.5 Minute Series.

www.nelsonmfg.com. Site accessed 12/8/17.



PHASE IA ARCHAEOLOGICAL ASSESSMENT
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

N

HP

Figure 1: Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 2016).

0 1000 2000 3000 4000 5000 FEET

BARRETT ROAD (TOWN ROAD)

BUILDING 1

BUILDING 2

BUILDING 3

BUILDING 4

PUGSLEY ROAD (TOWN ROAD)

ZIMMER ROAD (TOWN ROAD)

FIELDS CORNER ROAD (TOWN ROAD)

NY 312

SOUTHEAST

ATTERSON

TOTAL NEW APE:	±64.2 ACRES
NEW APE WITH SLOPES ≥12%:	±17.4 ACRES
NET NEW APE:	±46.8 ACRES

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- NEW AREA OF POTENTIAL EFFECT
- EXISTING SLOPES EQUAL TO OR GREATER THAN 12%
- PRIOR TESTING AREAS

GRAPHIC SCALE

500 0 250 500 1000 2000

(IN FEET)

1 inch = 500 ft.

Phase IA Archaeological Assessment
Northeast Interstate Logistics Center
Southeast, New York

Figure 2a: Proposed Development, Project Area, and Area of Potential Effect (JMC 2017).

JMC
120 BEDFORD RD
ARMONK
NY 10504
(914) 273-5225
fax 273-2102
JMCPLLC.COM

NORTHEAST INTERSTATE LOGISTICS CENTER
TOWN OF SOUTHEAST, NEW YORK
NY 312 & PUGSLEY ROAD

AREA OF POTENTIAL EFFECT (APE) OVER PROPOSED CONDITIONS

JMC PROJECT: 14012
DATE: 12/22/2017
SCALE: 1" = 500'
FIGURE: APE-2

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14012-GRAD.dwg; HISTORIC TESTING.tab HISTORIC-PROPOSED.scr

BARRETT ROAD (TOWN ROAD)

PUGSLEY ROAD (TOWN ROAD)

ZIMMER ROAD (TOWN ROAD)

FIELDS CORNER ROAD (TOWN ROAD)

NY 312

SOUTHEAST ATTERSON

F1 F2 F3 F4 F5

TOTAL NEW APE:	±64.2 ACRES
NEW APE WITH SLOPES ≥12%:	±17.4 ACRES
NET NEW APE:	±46.8 ACRES

GRAPHIC SCALE

500 0 250 500 1000 2000

(IN FEET)
1 inch = 500 ft.

F1 - FEATURE NUMBER KEYED TO TABLE 5 IN PHASE IA

1 - PHOTOGRAPH NUMBER AND DIRECTION

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- NEW AREA OF POTENTIAL EFFECT
- EXISTING SLOPES EQUAL TO OR GREATER THAN 12%
- PRIOR TESTING AREAS

Phase IA Archaeological Assessment
Northeast Interstate Logistics Center
Southeast, New York

Figure 2b: Project Site Boundaries, Area of Potential Effect, Photograph Key and Feature Key on Existing Conditions Plans (JMC 2017).

JMC
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NORTHEAST INTERSTATE LOGISTICS CENTER
TOWN OF SOUTHEAST, NEW YORK
NY 312 & PUGSLEY ROAD

AREA OF POTENTIAL EFFECT (APE) OVER EXISTING CONDITIONS

JMC PROJECT: 14012

SCALE: 1" = 500'

DATE: 12/22/2017

FIGURE: APE-1

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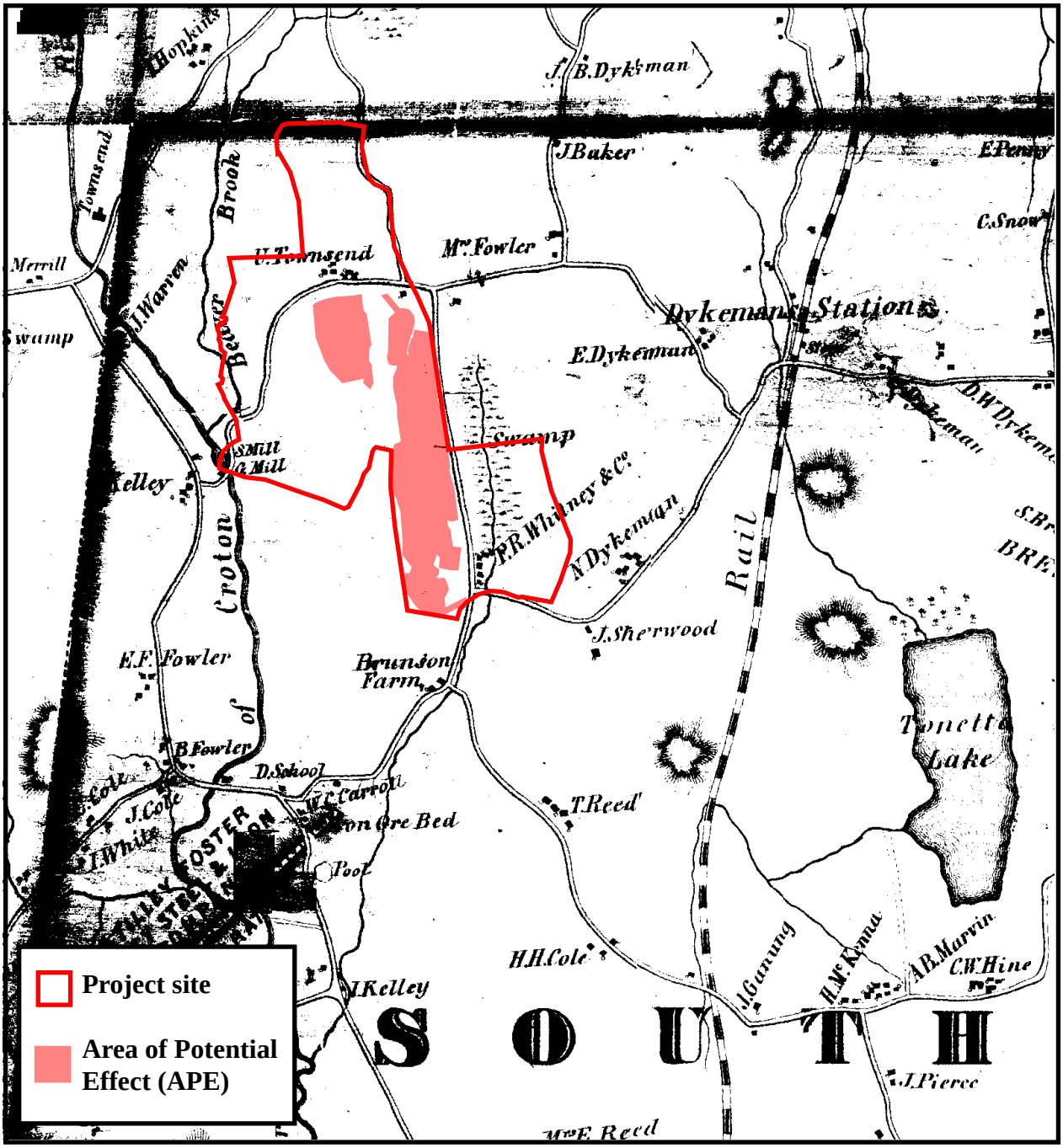
14012-GRAD.dwg; HISTORIC TESTING.tab HISTORIC-EXISTING.scr

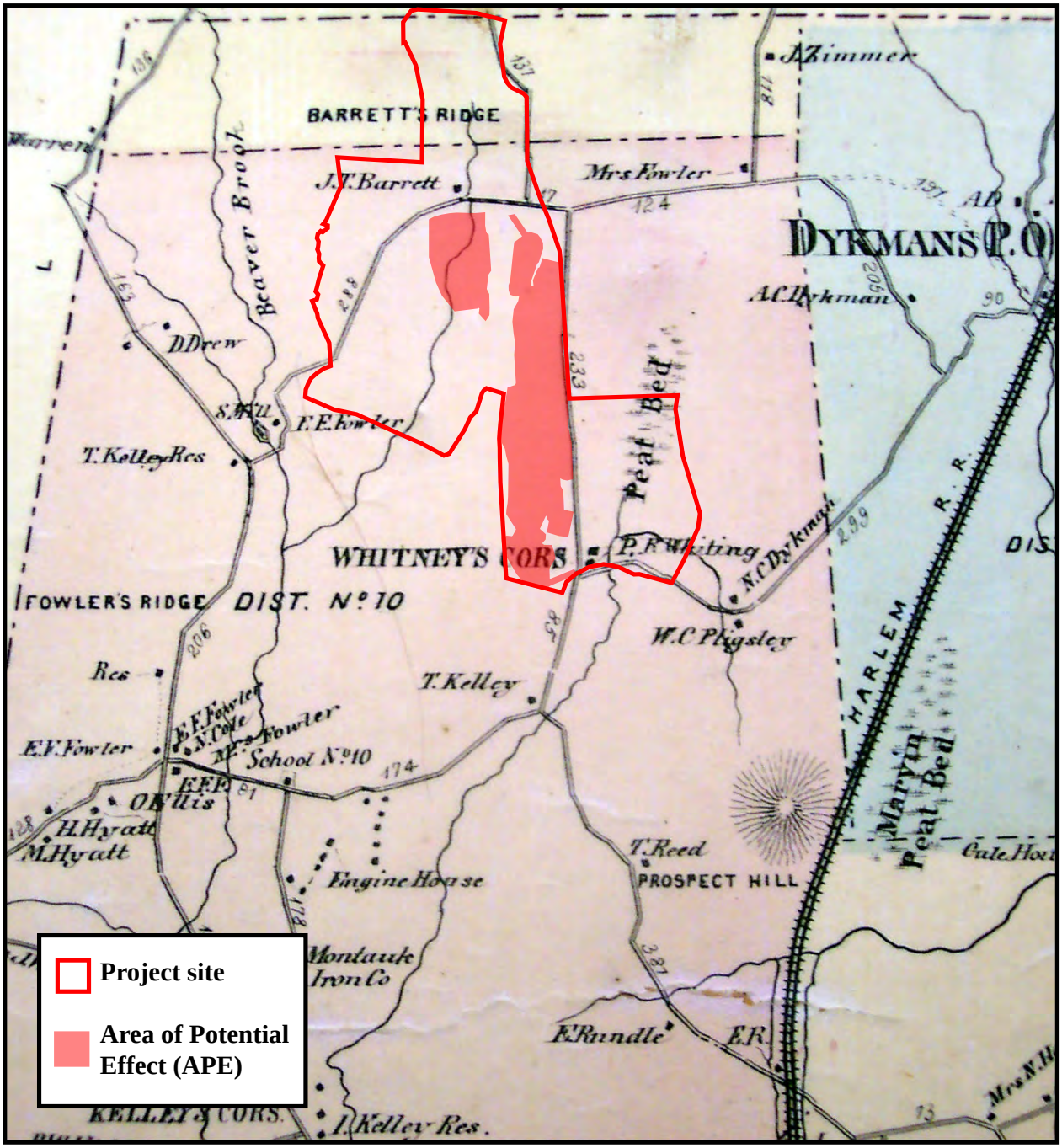
Phase IA Archaeological Assessment
Northeast Interstate Logistics Center
Southeast, New York

Figure 3: Phase IB Testing, Campus at Field Corners (HPI 2005).



PHASE IA ARCHAEOLOGICAL ASSESSMENT
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

Figure 4: Project site and APE on *Map of Putnam County, New York* (O'Connor 1854).



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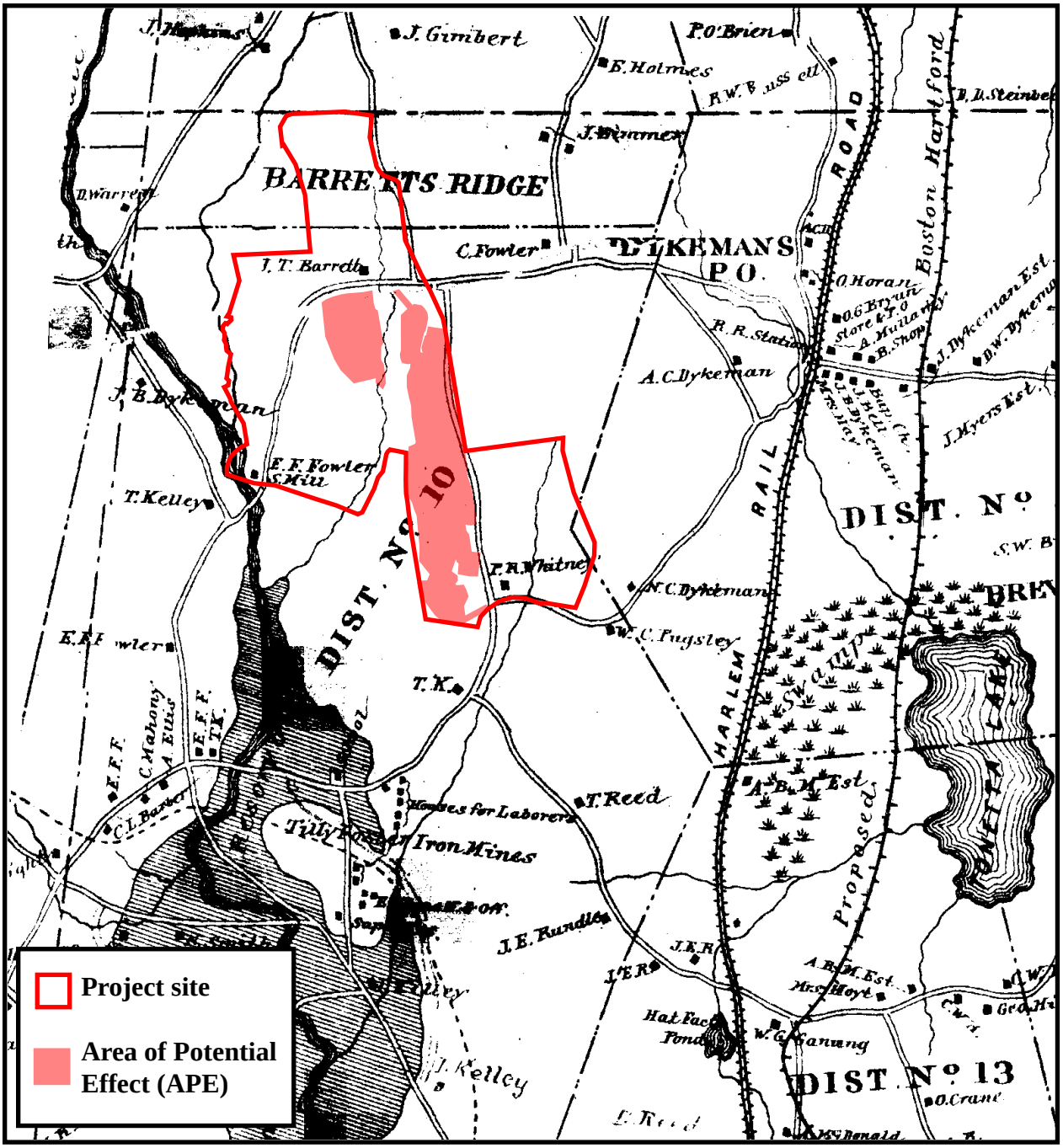
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

N

Figure 5: Project site and APE on *Map of Town of Southeast, New York* (Beers 1867).

0 1000 2000 3000 4000 5000 FEET

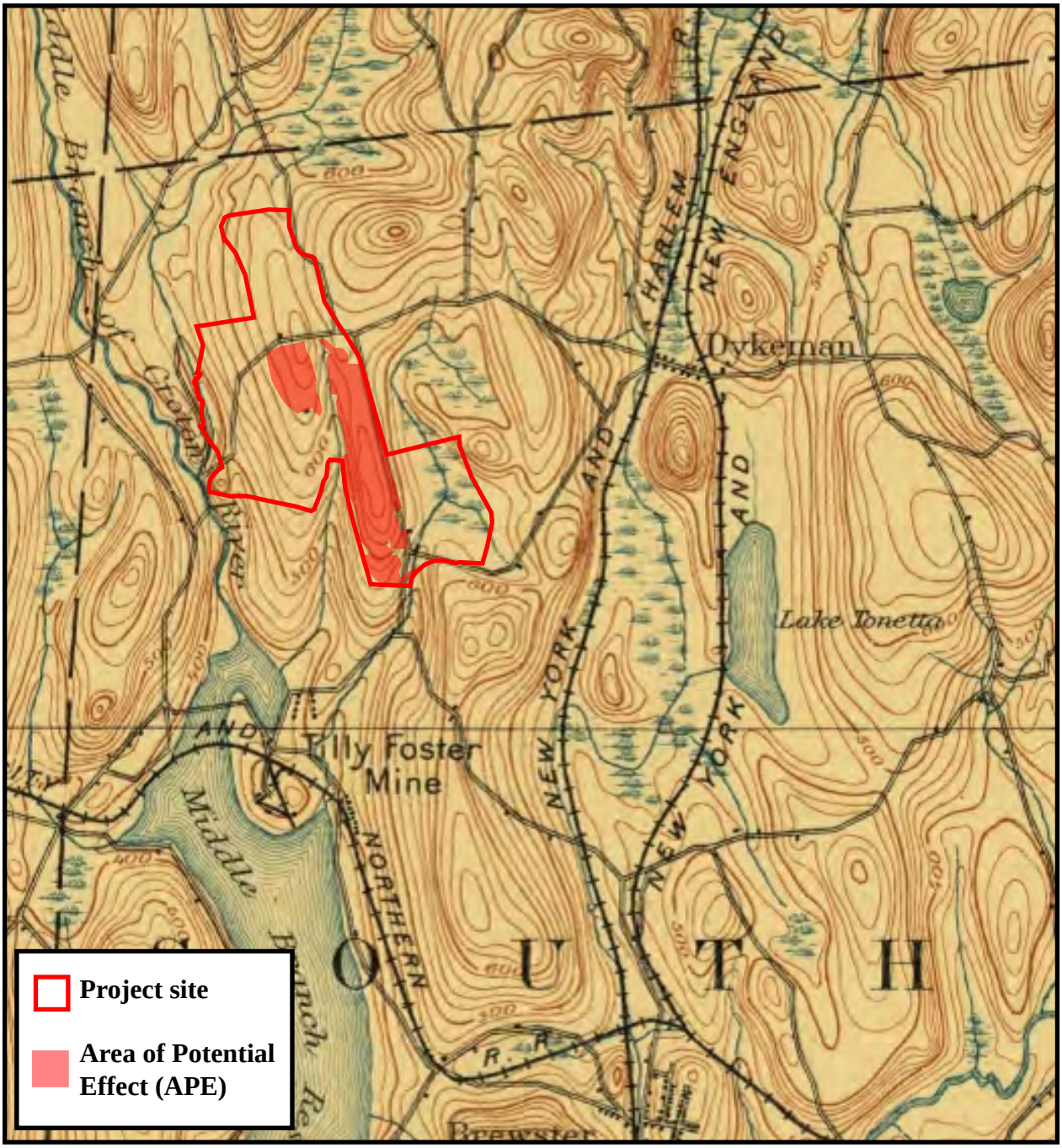


PHASE IA ARCHAEOLOGICAL ASSESSMENT
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

N

Figure 6: Project site and APE on *Map of Putnam County, New York* (Reed 1876).

0 1000 2000 3000 4000 5000 FEET



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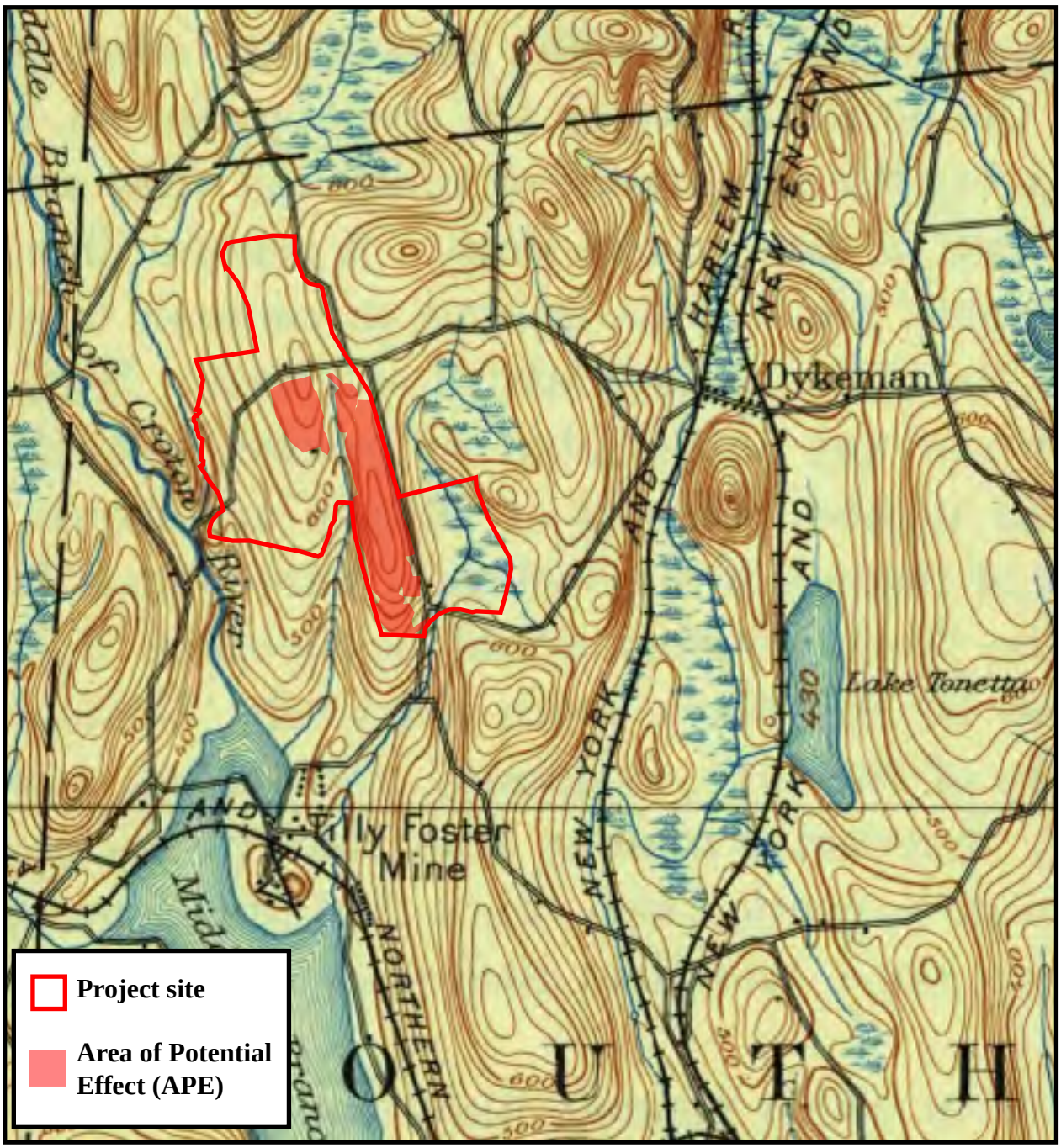
NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

Figure 7: Project site and APE on *Carmel, New York* 15 Minute Quadrangle (U.S.G.S. 1892).



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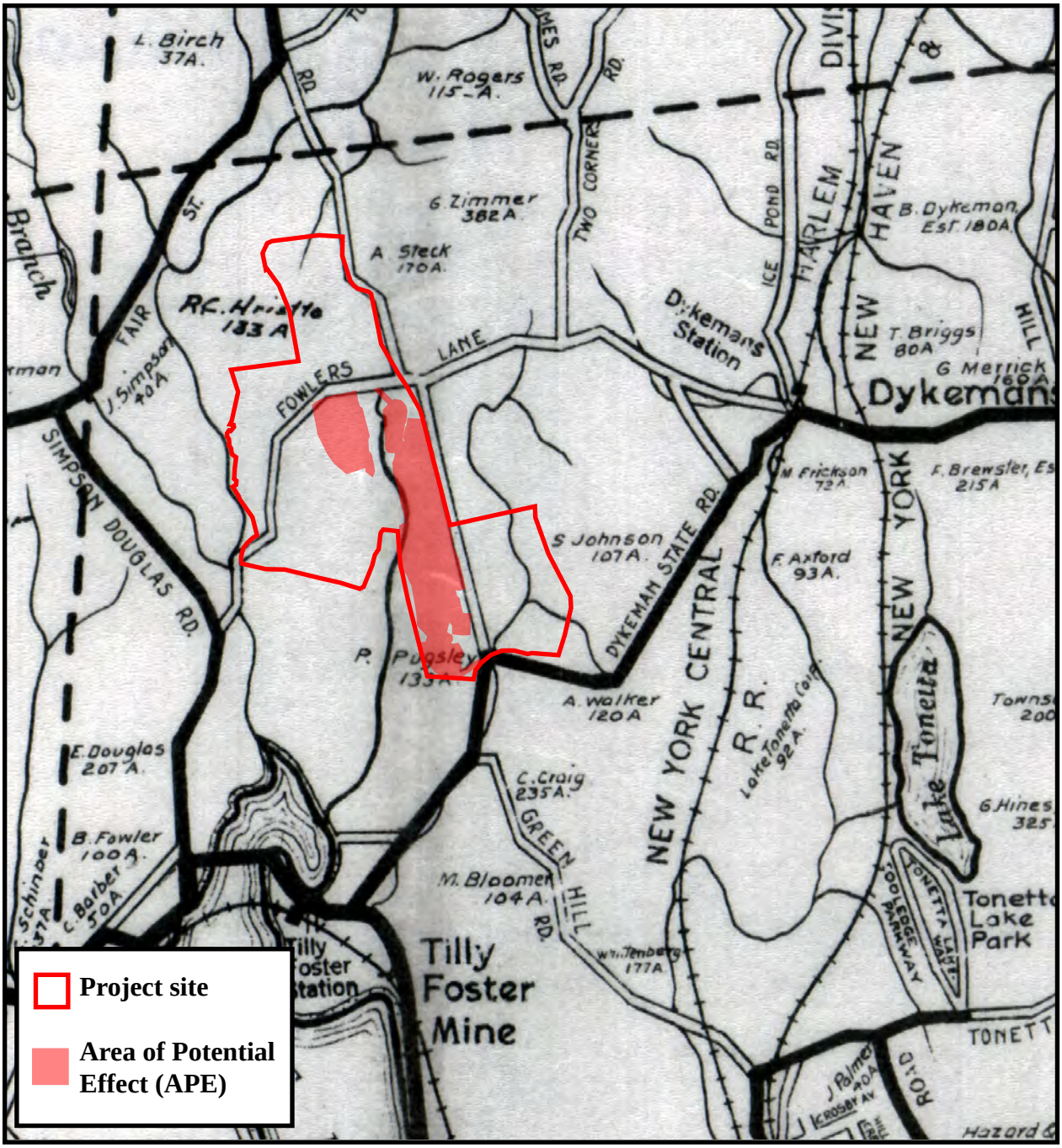
SOUTHEAST, PUTNAM COUNTY, NEW YORK

Figure 8: Project site and APE on *Carmel, New York* 15 Minute Quadrangle (U.S.G.S. 1928).



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SOUTHEAST, PUTNAM COUNTY, NEW YORK

N

Figure 9: Project site and APE on *Acreage Ownership Map of Putnam County, New York* (Dolph & Stewart 1930s).

0 1000 2000 3000 4000 5000 FEET

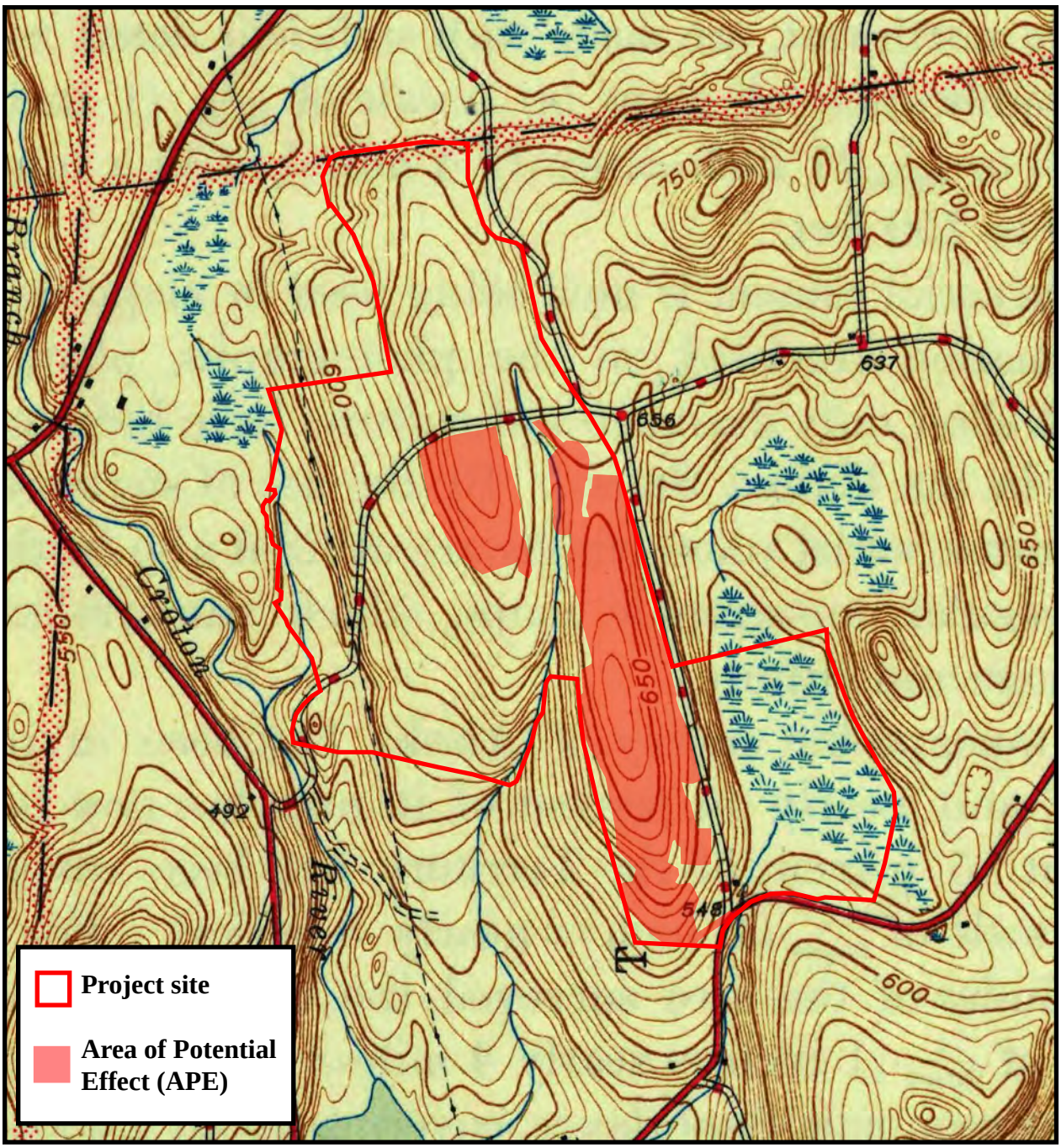

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Figure 10: Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 1944).

0 1000 2000 3000 4000 5000 FEET

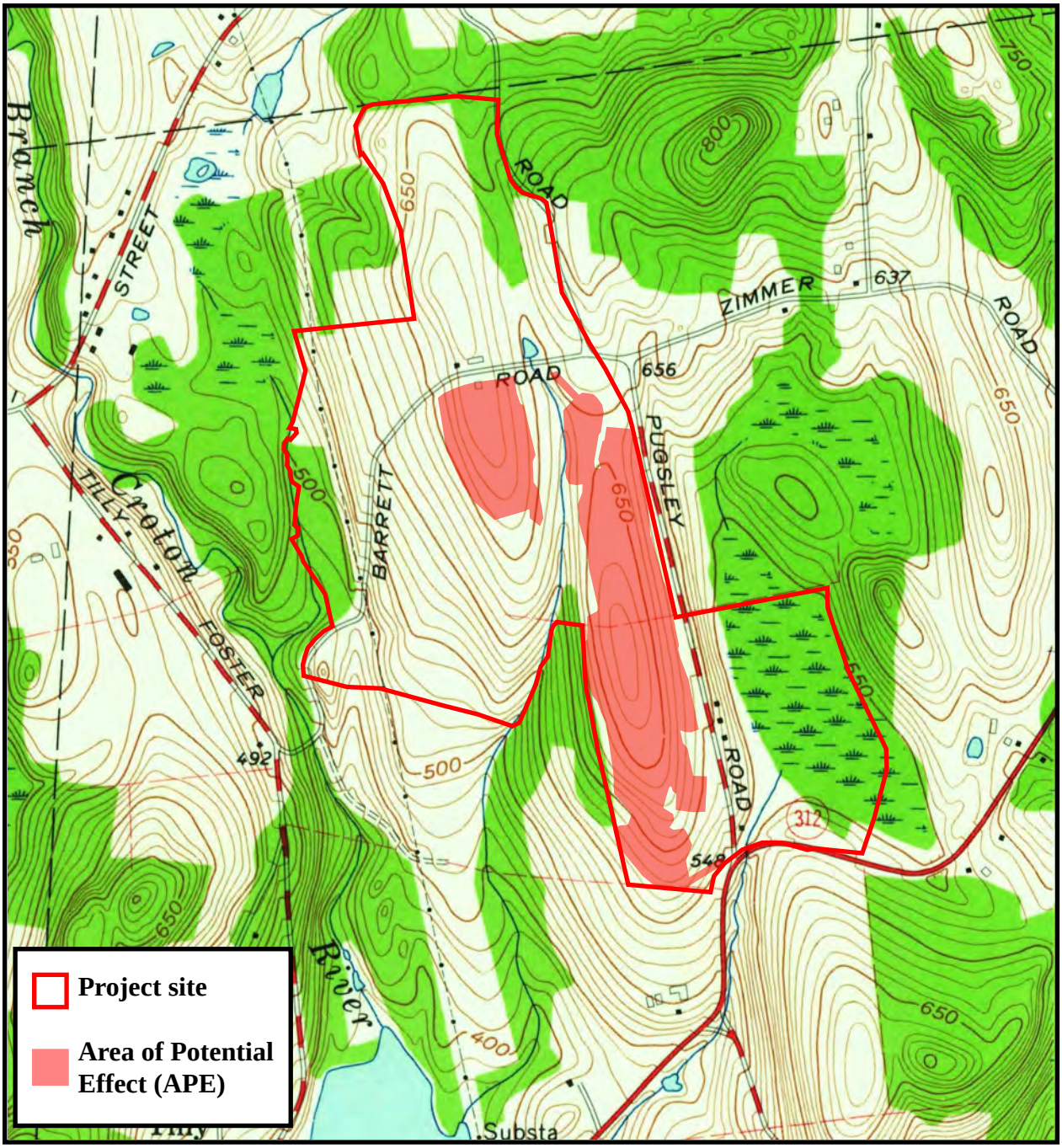

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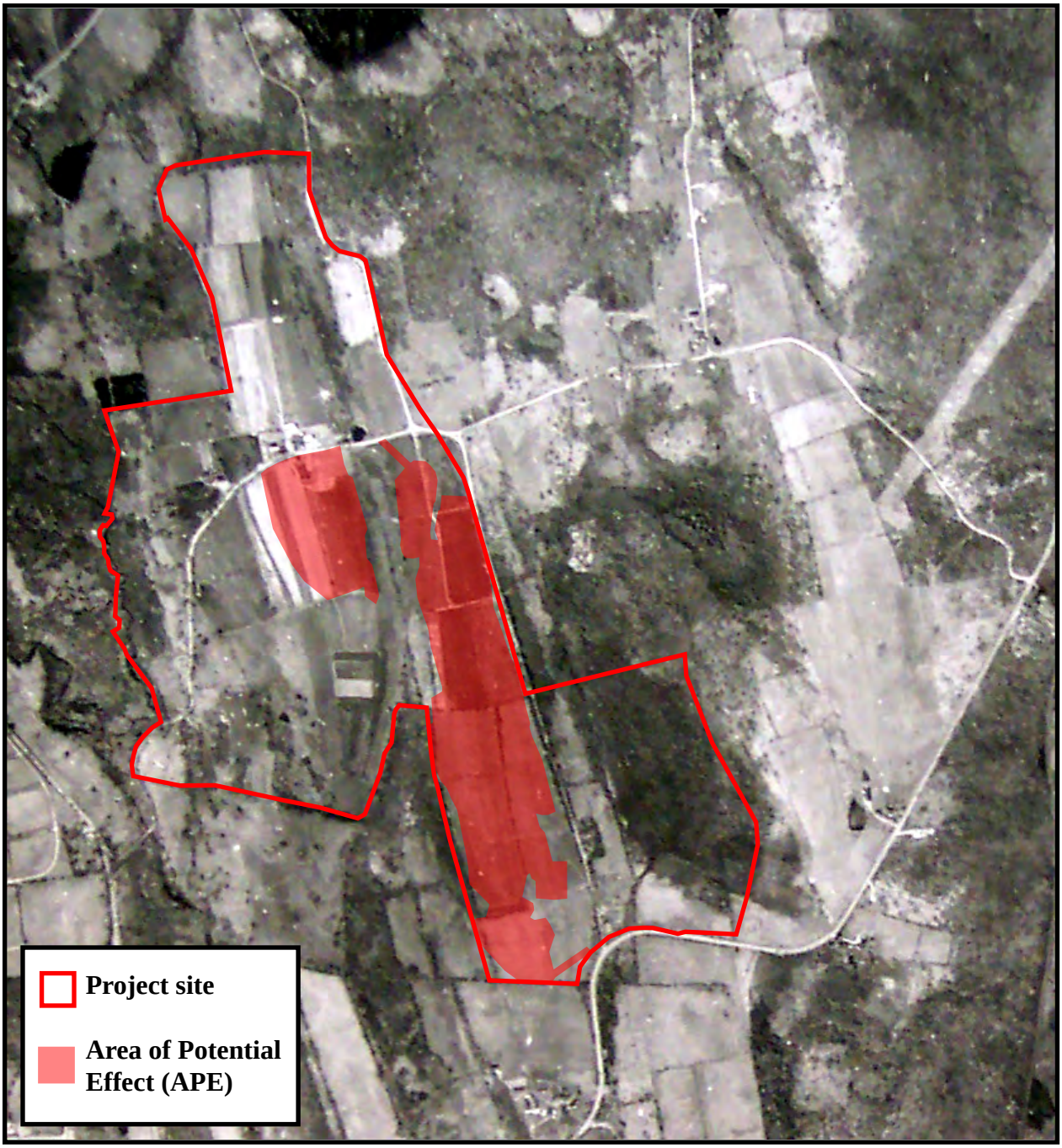
Figure 11: Project site and APE on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 1960).

0 1000 2000 3000 4000 5000 FEET



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SOUTHEAST, PUTNAM COUNTY, NEW YORK

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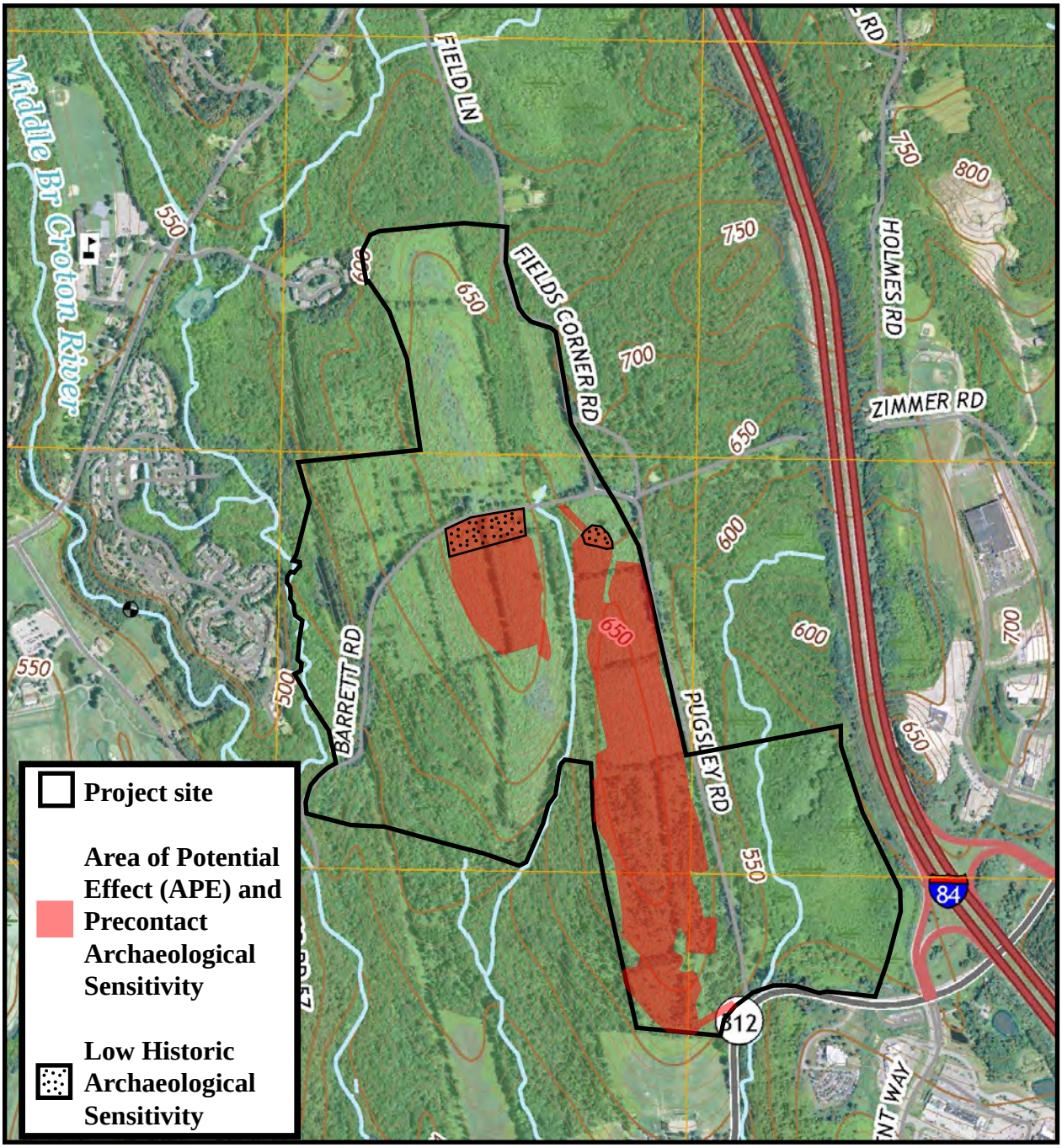
HP

Figure 12: Project site and APE on *South East Lake Tonetta Bog Brook Reservoir Middle Branch Reservoir* (American Air Surveys 1963).

0 1000 2000 3000 4000 5000 FEET



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NORTHEAST INTERSTATE LOGISTICS CENTER
SOUTHEAST, PUTNAM COUNTY, NEW YORK

N

Figure 13: Areas of Potential Archaeological Sensitivity on *Lake Carmel, New York* 7.5 Minute Quadrangle (U.S.G.S. 2016).

0 1000 2000 3000 4000 5000 FEET

Photograph 1: View looking north at thick vegetation on the north side of Barrett Road near its intersection with Fields Corner Road.

Photograph 2: View looking east at a recently cleared area south of the Barret Road, Fields Corner Road, and Pugsley Road intersection.

Photograph 3: View looking west at heavy brush west of Pugsley Road.

Photograph 4: View looking west at heavy brush west of Pugsley Road.

Photograph 5: View looking west at a recently cleared area west of Pugsley Road.

Photograph 6: View looking west in the south part of the project area.

Photograph 7: View looking north at Feature 1, a livestock watering unit on the south side of Barrett Road.

Photograph 8: View looking west at Feature 2, ruins of a concrete lined livestock watering unit.

Photograph 9: View looking north at Feature 3, a small section of a concrete block wall.

Photograph 10: View looking east at Feature 4, silo foundation remains.

Photograph 11: View looking east at Feature 5, a livestock watering unit.

Photograph 12: Close-up photograph of the Nelson Manufacturing Co. name on Feature 5, a livestock waterer.

Photograph 13: View looking east at the ditch on the farmstead, left of archaeologist Sandy.

Appendix A: Soils Report, U.S.D.A. 2017

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Putnam County, New York

Phase IA Archaeological Assessment

November 30, 2017

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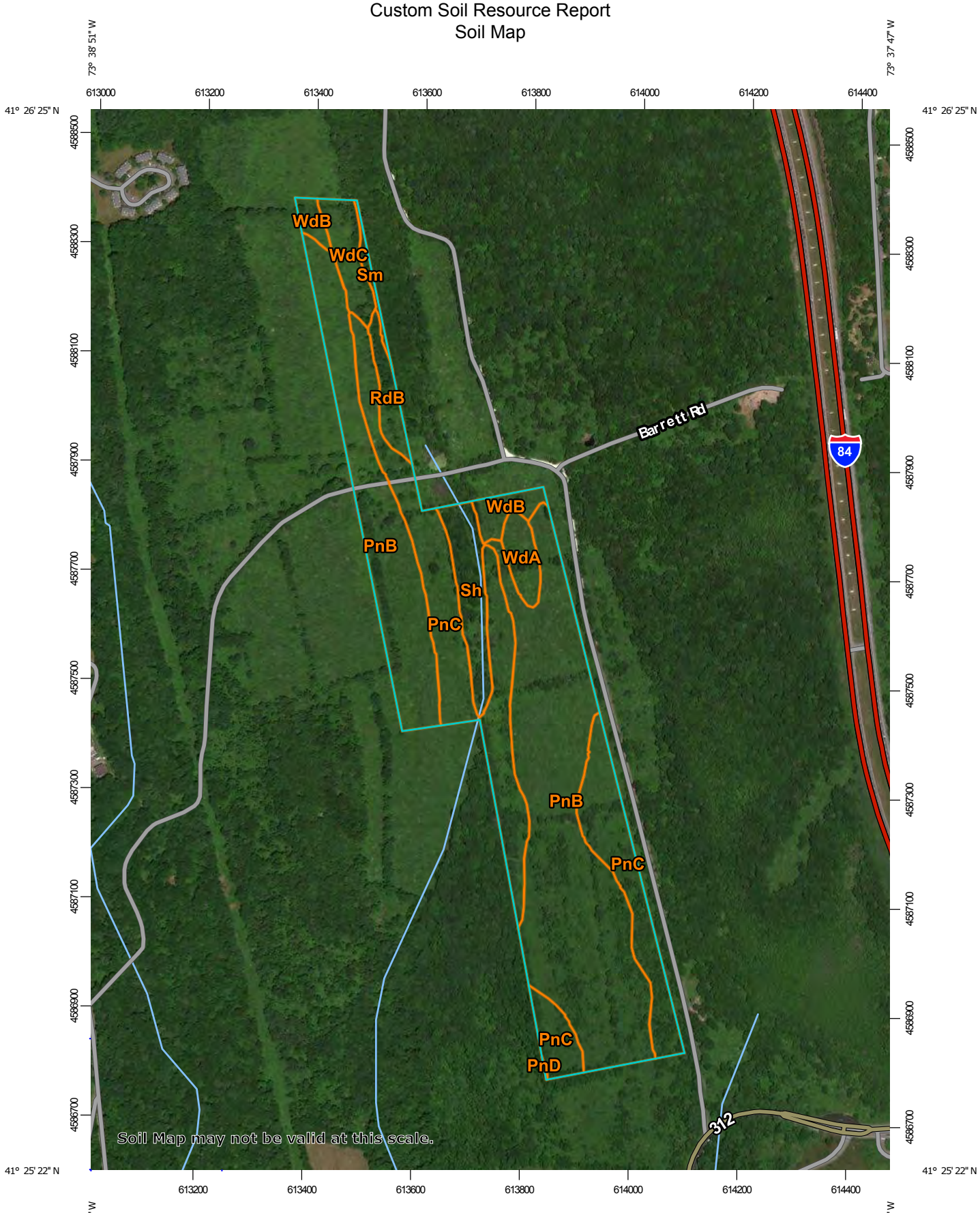
Custom Soil Resource Report
Soil Map



Map Scale: 1:9,470 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 450 900 1800 2700

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 1:24,000.

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: Putnam County, New York
Survey Area Data: Version 14, Oct 8, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 5, 2016

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
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	49.5	54.5%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	26.5	29.2%
PnD	Paxton fine sandy loam, 15 to 25 percent slopes	0.0	0.0%
RdB	Ridgebury loam, 3 to 8 percent slopes	2.0	2.2%
Sh	Sun loam	4.6	5.0%
Sm	Sun loam, extremely stony	0.6	0.6%
WdA	Woodbridge loam, 0 to 3 percent slopes	2.0	2.2%
WdB	Woodbridge loam, 3 to 8 percent slopes	2.6	2.9%
WdC	Woodbridge loam, 8 to 15 percent slopes	3.0	3.3%
Totals for Area of Interest		**90.8**	**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 given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Putnam County, New York

PnB—Paxton fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2t2qp
Elevation: 0 to 1,570 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Paxton and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paxton

Setting

Landform: Hills, drumlins, ground moraines
Landform position (two-dimensional): Backslope, summit, shoulder
Landform position (three-dimensional): Side slope, crest, nose slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 8 inches: fine sandy loam
Bw1 - 8 to 15 inches: fine sandy loam
Bw2 - 15 to 26 inches: fine sandy loam
Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 18 to 39 inches to densic material
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 37 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Woodbridge

Percent of map unit: 9 percent
Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Backslope, footslope, summit
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Ridgebury

Percent of map unit: 6 percent
Landform: Ground moraines, drainageways, hills, depressions
Landform position (two-dimensional): Backslope, footslope, toeslope
Landform position (three-dimensional): Head slope, base slope, dip
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Charlton

Percent of map unit: 5 percent
Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

PnC—Paxton fine sandy loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2w66y
Elevation: 0 to 1,320 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Paxton and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paxton

Setting

Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex

Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 8 inches: fine sandy loam
Bw1 - 8 to 15 inches: fine sandy loam
Bw2 - 15 to 26 inches: fine sandy loam
Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 37 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Charlton

Percent of map unit: 7 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Woodbridge

Percent of map unit: 6 percent
Landform: Hills, drumlins, ground moraines
Landform position (two-dimensional): Footslope, summit, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Ridgebury

Percent of map unit: 2 percent
Landform: Depressions, drumlins, ground moraines, drainageways, hills
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope, head slope
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Hydric soil rating: Yes

PnD—Paxton fine sandy loam, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2w67j
Elevation: 0 to 1,450 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Paxton and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paxton

Setting

Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 8 inches: fine sandy loam
Bw1 - 8 to 15 inches: fine sandy loam
Bw2 - 15 to 26 inches: fine sandy loam
Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 37 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Charlton

Percent of map unit: 8 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Woodbridge

Percent of map unit: 6 percent
Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Ridgebury

Percent of map unit: 1 percent
Landform: Ground moraines, drainageways, hills, depressions, drumlins
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Head slope, base slope
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Hydric soil rating: Yes

RdB—Ridgebury loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9tzs
Elevation: 50 to 1,000 feet
Mean annual precipitation: 46 to 50 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 115 to 215 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ridgebury, somewhat poorly drained, and similar soils: 50 percent
Ridgebury, poorly drained, and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ridgebury, Somewhat Poorly Drained

Setting

Landform: Hills, till plains, drumlinoid ridges
Landform position (two-dimensional): Footslope, summit

Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived mainly from granite, gneiss, and schist

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 26 inches: gravelly fine sandy loam
H3 - 26 to 60 inches: gravelly loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 14 to 30 inches to densic material
Natural drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Hydric soil rating: No

Description of Ridgebury, Poorly Drained

Setting

Landform: Hills, till plains, drumlinoid ridges
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived mainly from granite, gneiss, and schist

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 26 inches: gravelly fine sandy loam
H3 - 26 to 60 inches: gravelly loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 14 to 30 inches to densic material
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components

Sun
Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Leicester
Percent of map unit: 3 percent
Hydric soil rating: No

Woodbridge
Percent of map unit: 3 percent
Hydric soil rating: No

Paxton
Percent of map unit: 2 percent
Hydric soil rating: No

Ridgebury, very stony
Percent of map unit: 2 percent
Hydric soil rating: No

Sh—Sun loam

Map Unit Setting
National map unit symbol: 9v04
Elevation: 600 to 1,800 feet
Mean annual precipitation: 46 to 50 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 115 to 215 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Sun and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sun

Setting
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Loamy till derived primarily from limestone and sandstone, with a component of schist, shale, or granitic rocks in some areas

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 27 inches: loam
H3 - 27 to 60 inches: gravelly fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Moderate (about 6.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: C/D
Hydric soil rating: Yes

Minor Components

Ridgebury

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Leicester

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Palms

Percent of map unit: 3 percent
Landform: Marshes, swamps
Hydric soil rating: Yes

Sun, stony

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Sm—Sun loam, extremely stony

Map Unit Setting

National map unit symbol: 9v05
Mean annual precipitation: 46 to 50 inches
Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 115 to 215 days
Farmland classification: Not prime farmland

Map Unit Composition

Sun and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sun

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Loamy till derived primarily from limestone and sandstone, with a component of schist, shale, or granitic rocks in some areas

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 27 inches: loam
H3 - 27 to 60 inches: gravelly fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Percent of area covered with surface fragments: 9.0 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Moderate (about 6.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C/D
Hydric soil rating: Yes

Minor Components

Leicester

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Ridgebury

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Palms

Percent of map unit: 3 percent
Landform: Marshes, swamps

Hydric soil rating: Yes

Sun, non-stony

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

WdA—Woodbridge loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2w68t
Elevation: 0 to 770 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 145 to 240 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Woodbridge, loam, and similar soils: 86 percent
Minor components: 14 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodbridge, Loam

Setting

Landform: Hills, drumlins, ground moraines
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 6 inches: loam
Bw1 - 6 to 18 inches: gravelly loam
Bw2 - 18 to 29 inches: gravelly loam
Cd - 29 to 65 inches: gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C/D
Hydric soil rating: No

Minor Components

Ridgebury

Percent of map unit: 7 percent
Landform: Depressions, drumlins, ground moraines, drainageways, hills
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Paxton

Percent of map unit: 5 percent
Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Shoulder, summit
Landform position (three-dimensional): Crest
Down-slope shape: Linear, convex
Across-slope shape: Convex
Hydric soil rating: No

Sutton

Percent of map unit: 2 percent
Landform: Ground moraines, hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

WdB—Woodbridge loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2w688
Elevation: 0 to 1,280 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 145 to 240 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Woodbridge, loam, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodbridge, Loam

Setting

Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Summit, backslope, footslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 6 inches: loam
Bw1 - 6 to 18 inches: gravelly loam
Bw2 - 18 to 29 inches: gravelly loam
Cd - 29 to 65 inches: gravelly loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C/D
Hydric soil rating: No

Minor Components

Paxton

Percent of map unit: 7 percent
Landform: Hills, drumlins, ground moraines
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Crest, side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Hydric soil rating: No

Ridgebury

Percent of map unit: 7 percent
Landform: Ground moraines, drainageways, hills, depressions, drumlins
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Sutton

Percent of map unit: 1 percent
Landform: Ground moraines, hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

WdC—Woodbridge loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2w68p
Elevation: 10 to 1,000 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 145 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Woodbridge, loam, and similar soils: 82 percent
Minor components: 18 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodbridge, Loam

Setting

Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 6 inches: loam
Bw1 - 6 to 18 inches: gravelly loam
Bw2 - 18 to 29 inches: gravelly loam
Cd - 29 to 65 inches: gravelly loam

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None

Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water storage in profile: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C/D
Hydric soil rating: No

Minor Components

Paxton

Percent of map unit: 8 percent
Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Hydric soil rating: No

Ridgebury

Percent of map unit: 7 percent
Landform: Depressions, drumlins, ground moraines, drainageways, hills
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Sutton

Percent of map unit: 2 percent
Landform: Hills, ground moraines
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Urban land

Percent of map unit: 1 percent
Hydric soil rating: Unranked

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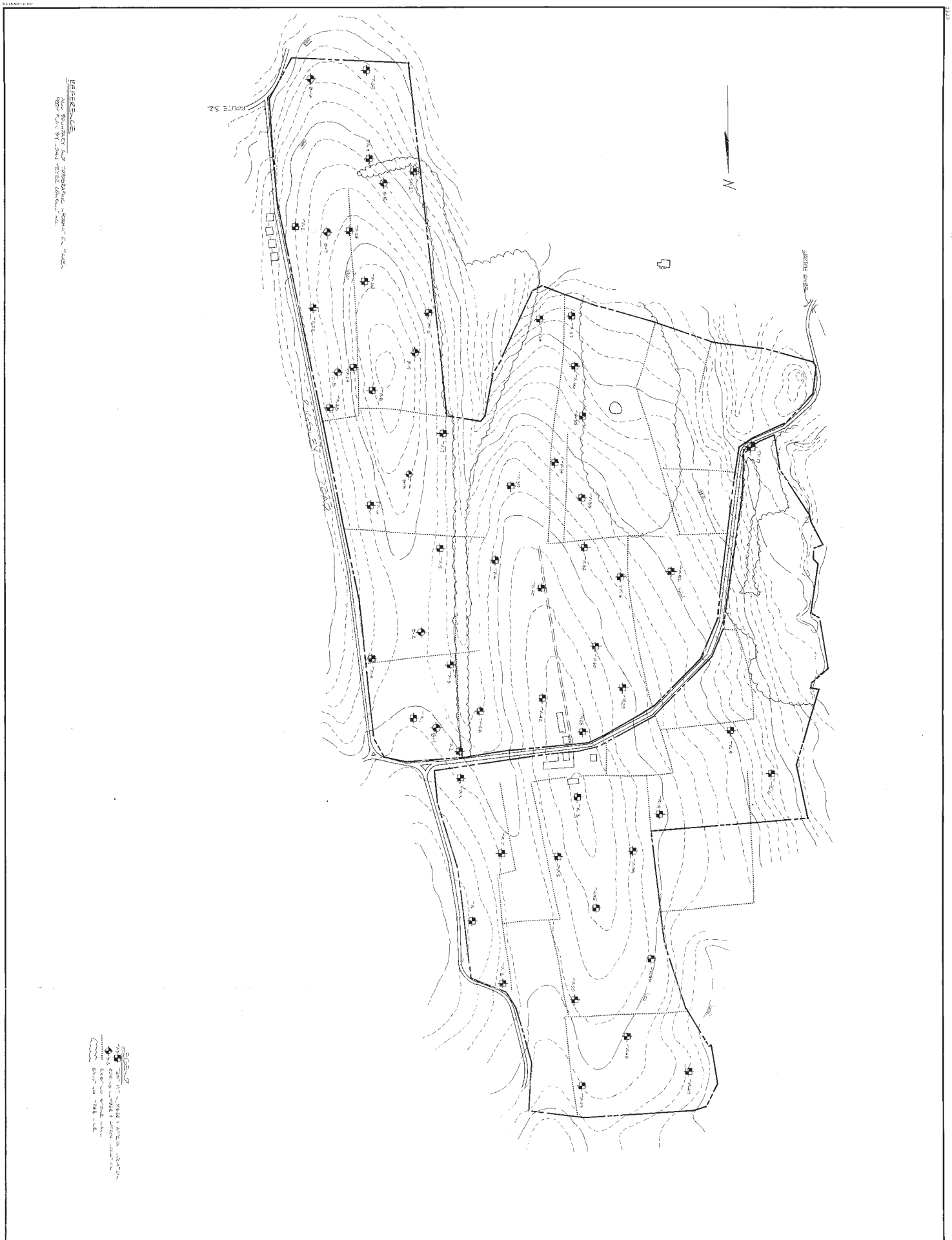
APPENDIX B: Soil Boring Logs, John Meyer Consulting 1987



project: PROPOSED SOUTHEAST OFFICE CAMPUS
ROUTE 32 & PUGSLEY ROAD
SOUTHEAST, NEW YORK

drawing title:
TEST PIT & BORING LOCATION PLAN

job no. 2434
drawing no.
FIG. 1
1 of 1

Site feasibility studies
Soils and foundations
Construction management
SOILS ENGINEERING SERVICES, INC.
Consulting Civil Engineers
Ed Fraser Ave Roslyn Grove, N.Y. 12203 (607) 223-0170

drawn by: MSP
checked by: KQ
scale: 1" = 200'
date: 10-1-87

rev.	date	description	by

SESI consulting engineers

soils & foundations
land development
environmental

October 7, 1987
N-2434-87

John Meyer Consulting
120 Bedford Road
Armonk, NY 10504

Attention: Mr. Gary D. Miller, ASLA

RE: Preliminary Subsurface Investigation
Proposed Campus Project
Southeast, New York

Gentlemen:

In accordance with your request, we have completed our preliminary subsurface investigation for the proposed Campus Project to be situated within the Town of Southeast, New York.

Our investigation consisted of advancing eight (8) soil borings using hollow-stem augers and excavating fifty-two (52) test pits using a rubber-tired backhoe. The locations of soil borings and test pit excavations are illustrated in Figure 1. The soil borings were advanced to a maximum depth of 27± feet below existing grade, while the test pit excavations varied in depth from 7 to 11± feet below existing grade. Individual soil boring and test pit logs, which describe the materials encountered, are presented in Figures 2 through 9 and 10 through 61, respectively.

Laboratory classification tests consisting of two (2) grain-size analyses were performed on representative samples obtained during the

field investigation. The results of these tests are presented in graphical form on Figures 62 and 63.

DESCRIPTION OF SITE AND PROPOSED CONSTRUCTION

The proposed development is to be located on a site within the town of Southeast and is bounded on the north and east by Pugsley Road, on the south by New York Route 312 and private residences and on the west by private residences. The site is presently a combination of open agricultural fields and wooded areas. Rock rubble walls and hedge rows were noted throughout the site to subdivide the fields. A power transmission line easement was also noted on the western side of the site traversing north to south. Existing grades on this site varied significantly from approximately Elevation 690± to the rear of the existing farm structures down to approximately Elevation 480± along the western property line.

A site plan for this site was unavailable at the time of this investigation, therefore, the number, size and actual locations of the of structures, and associated cuts and fills are not known at this time. It is our understanding however, that the planned construction will ultimately consist of 1,000,000± square feet of office buildings, a hotel and conference center, and approximately 400 residential condominiums, along with the associated roadways and parking areas. It is probable that the office building and hotel sites and the main entrance roadway will require significant cuts and fills.

SUBSURFACE CONDITIONS

The soils encountered during the field portion of our investigation were predominantly uniform throughout the site. Each soil boring and test pit excavation revealed a layer of topsoil, typically to a depth of approximately 1± foot below existing grade. Underlying the topsoil, a dense to very dense silt and clayey silt with varying amounts of sand and gravel was encountered. This material was present through the completion depths of the soil borings and test pit excavations. Boulders and cobbles were also present throughout the site profile. Seven of the test pits encountered refusal and/or water seepage on cobbles and boulders.

Groundwater and/or water seepage was encountered in most of the soil borings and test pit excavations at a depth ranging form 2.0 to 20± feet below existing grade. Within ten of the test pit excavations, groundwater seepage was not encountered. Since the groundwater levels varied widely, the necessity of special dewatering procedures cannot be determined until proposed grades have been established.

EVALUATION AND PRELIMINARY RECOMMENDATIONS

General

From a soils and foundations standpoint, this site may be considered good to excellent with respect to providing support of the proposed structures. No extensive deposits of uncontrolled fill and no thick layers of organic material or other unsuitable materials were encountered during this investigation.

The natural glacial silt/clayey silt soils encountered beneath the topsoil are typically in a stiff/dense condition and will allow for conventional shallow foundations with reasonable allowable bearing capacities.

The primary negative aspects of the subsurface conditions are: the relatively shallow groundwater levels in some areas; the silty/clayey nature and therefore moisture sensitivity of most of the soils encountered; the presence of numerous cobbles and boulders; and, the dense to very dense condition of the site soils within the proposed deep road cuts adjacent to Route 312.

Site Preparation Procedures

Site preparation will consist of stripping topsoil and other organic material from within building and parking areas and then cutting and filling the site to grade.

The cut soils below the topsoil may be used to fill buildings, parking and roadway areas. However, because the majority of these materials possess a high silt/clay content, they cannot be worked or compacted when saturated and, once wet, will require a long period of time to dry. The ease with which soil fills can be constructed on this site will, to a high degree, depend on construction procedures and on the time of year in which construction takes place.

Shotrock and clean demolition rubble may also be used in fill areas. It should, however, be confined to areas in which later excavation for utilities, foundations, or other structures is not required. Compaction

of shot rock fills should be accomplished by placing the rock as thinly as possible and working it into the underlying material with a large piece of equipment such as a D-8. Shotrock fills should be constructed so that all large voids between the rock chunks are eliminated in the placement and working of the material. The numerous boulders that will likely be encountered in the cuts should be placed in the deeper fill areas and spaced sufficiently such that no large voids are created.

Soil fill should be placed in maximum 12-inch thick layers and each layer compacted to the required density using a large vibratory roller (minimum 5-ton static weight). Building area fills should be compacted to a minimum of 95 percent of the maximum Modified Proctor density (ASTM D 1557). The compaction criterion in parking and roadway areas may consist of 90 percent, except in the uppermost 2 feet where 95 percent is recommended for good pavement support.

In parking and roadway areas where a minimum of 3 feet of fill is required to reach finished subgrade elevation, the topsoil and organic material need not be excavated.

Due to the dense to very dense condition of the subsurface soils within the proposed road cut adjacent to Route 312, large bulldozers equipped with rippers may be required to loosen the dense soil matrix in order to facilitate excavation.

Preliminary Foundation Design Criteria

We anticipate that allowable bearing capacities on the order of 2 to 6 tsf will be available depending on the specific building location and

planned foundation elevations. In general, the compacted fills will be suitable for 2 to 3 tsf bearing and the natural soils for 3 to 6 tsf.

Exterior footings and those footings potentially exposed to frost action should be founded a minimum of 4.0 feet below adjacent exterior grade. Interior footings in heated areas may be founded at conventional depths below the floor slab.

FUTURE STUDIES

Additional subsurface exploration will be required for each major structure planned. On the basis of our preliminary study, we anticipate that test pits with a few borings will give us sufficient information to develop final recommendations for the proposed structures. In addition, once the proposed grading has been established, it would be prudent to install PVC standpipes to monitor the groundwater levels within the deeper cut areas.

If you have any questions, please feel free to contact us.

Very truly yours,

SESI CONSULTING ENGINEERS

Kenneth J. Quazza, P.E.

William J. St. Pierre, P.E.

KJQ:WSP:tmp

PROJECT NO. N-2434-87 LOG OF BORING NO. B-1

DATE 9/14/87 SURFACE ELEV. LOCATION See Figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
5	109		Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10	69		
15	71		
20	38	23.0	
25	57	27.0	Gray brown SILT, some medium to fine Sand, little fine Gravel
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

DEPTH TO WATER 19.25 ft. DATE 9/14/87

REMARKS At completion of Boring

*BLOWS / FOOT

FIG. 2

PROJECT NO. N-2434-87 LOG OF BORING NO. B-2

DATE 9/14/87 SURFACE ELEV. LOCATION See Figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
5			Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10	100/5"	13.5	
15	31		Brown SILT, some fine Sand, little fine Gravel
20	30		
25	29	27.0	
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

*BLOWS / FOOT

DEPTH TO WATER 20.17 ft. DATE 9/14/87

REMARKS At completion of Boring

FIG. 3

PROJECT NO. N-2434-87 LOG OF BORING NO. B-3

DATE 9/14/87 SURFACE ELEV. LOCATION See Figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
5			Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10	116		
15	100/2"	18.5	
20	34		Gray brown SILT, some medium to fine Sand, little fine Gravel
25	39	27.0	
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

*BLOWS / FOOT

DEPTH TO WATER 13.5 ft DATE 9/14/87

REMARKS At completion of boring

FIG. 4

PROJECT NO. N-2434-87 LOG OF BORING NO. B-4

DATE 9/14/87 SURFACE ELEV. LOCATION See Figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
5			Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10	15		
15	31		
20	31		
25	31	27.0	
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

*BLOWS / FOOT

DEPTH TO WATER 11.75 ft. DATE 9/14/87

REMARKS At completion of Boring

FIG. 5

PROJECT NO. N-2434-87 LOG OF BORING NO. B-5

DATE 9/15/87 SURFACE ELEV. LOCATION See figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
5			Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10	33		
15	27		
20	100/5"		
25	100/2"	25.2	
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

*BLOWS / FOOT

DEPTH TO WATER 17.25 ft. DATE 9/15/87

REMARKS At completion of BOring

FIG. 6

PROJECT NO. 11-2434-87 LOG OF BORING NO. B-6

DATE 9/15/87 SURFACE ELEV. LOCATION See Figure 1

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0			1.0	Topsoil
10		100/3"		Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
15		37		
20		32		
25		143	24.8	
30				
35				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD

*BLOWS / FOOT

DEPTH TO WATER 16.5 ft. DATE 9/15/87

REMARKS At completion of Borings

FIG. 7

PROJECT NO. B-2434-87 LOG OF BORING NO. B-7

DATE 9/15/87 SURFACE ELEV. _____ LOCATION See Figure 1

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0			1.0	Topsoil
5				Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
10		15		
15		100/1"		
20		129		
			22.5	
25				
30				
35				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD _____

*BLOWS / FOOT

DEPTH TO WATER 14.5 ft. DATE 9/15/87

REMARKS At completion of boring

FIG. 8

PROJECT NO. N-2434-87 LOG OF BORING NO. B-8

DATE 9/15/87 SURFACE ELEV. _____ LOCATION See Figure 1

DEPTH, FEET / SAMPLES	*SAMPLING RESISTANCE	DEPTH, FT.	DESCRIPTION
0		1.0	Topsoil
10	15		Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel
15	26		
20	100/2"	20.7	
25			
30			
35			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD _____

*BLOWS / FOOT

DEPTH TO WATER 17.0 ft. DATE 9/15/87

REMARKS At completion of boring

FIG. 9

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-1

LOCATION Pugsley Rd. Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY KQ/DJ

GROUNDWATER OBSERVATIONS Seepage @ 2.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown coarse to fine SAND, and Silt, little fine Gravel; occasional cobbles	Medium Dense to Dense Increasing with Depth
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 10

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-2

LOCATION Pugsley Road, Southeast, New YOrk

DATE EXCAVATED 9-14-87 INSPECTED BY KQ/DJ

GROUNDWATER OBSERVATIONS Seepage throughout T.P.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil and Roots	--
2	Brown Clayey SILT, and coarse to fine Sand, little fine Gravel; occasional cobbles, some sloughing of sidewalls due to seepage	Firm to Stiff Increasing with Depth
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. //

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-3

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Slight Seepage @ 3.5 ft. (surface H_2O)

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light brown coarse to fine SAND, and Silt	Medium Dense
3	S-1	
4	Brown coarse to fine SAND, and Clayey Silt, little medium to fine Gravel; occasional cobbles Large boulders at 5.0 to 8.0 feet	Medium Dense
5		
6		
7		
8		
9		
10	Bottom at 9.0 feet Refusal on boulder @ 9.0 feet	
11		
12		
13		
14		
15		

FIG. 12

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-4

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Heavy Seepage @ 6.0'; Slight @ 3.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light brown Clayey SILT, some medium to fine Sand, little medium to fine Gravel	Firm
3		
4		
5	Brown Clayey SILT, and coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders Heavy seepage at 6.0 feet	Firm to Stiff Increasing with Depth
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 13 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-5

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 4.6 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2		
3	Brown Clayey SILT, and coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders	Firm to Stiff Increasing with Depth
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 14

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-6

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 4.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel; increase in gravel and cobbles with depth, occasional boulders Sidewall cave-in due to seepage	Firm to Stiff Increasing with Depth
3		
4		
5		
6		
7		
8		
9		
10		
11	Bottom at 10.5 feet	
12		
13		
14		
15		

FIG. 15

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-7

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 4.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light brown Clayey SILT, little coarse to fine Gravel; occasional cobbles near surface	Firm
3		
4		
5	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 16

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-8

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Slight Seepage @ 4.5, Heavy @ 5.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	---
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff to Very Increasing with Depth
3		
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 17

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-9

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	--
2	Light brown Clayey SILT, little coarse to fine Sand	Firm
3		
4		
5	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff to Very Stiff, Increasing with Depth
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 18 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-10

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	---
2	Light brown Clayey SILT, little medium to fine Sand	Firm
3	Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel; occasional cobbles	Stiff to Very Stiff Increasing with Depth
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 19 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-11

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Slight Seepage @ 8.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff to Very Stiff Increasing with Depth
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 20 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-12

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Mod. Seepage @ 4.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders	Stiff
3		
4		
5		
6		
7	Refusal at 7.0 feet on boulders	
8		
9		
10		
11		
12		
13		
14		
15		

FIG. 21

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-13

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light brown Clayey SILT, little medium to fine Sand	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders	Stiff
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 22 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-14

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Heavy Seepage @ 4.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 9.0 feet	
11		
12		
13		
14		
15		

FIG. 23 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-15

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 8.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light brown Clayey SILT, little coarse to fine Sand, trace fine Gravel; occasional cobbles	Firm
6	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
10	Bottom at 10.0 feet	

FIG. 24

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-16

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Brown SILT, and coarse to fine Sand, trace coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 25 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-17

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-14-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Brown coarse to fine SAND, and Silt, trace coarse to fine Gravel; occasional cobbles; boulders at 4 and 8.0 feet	Medium Dense to Dense Increasing with Depth
3		
4		
5		
6		
7		
8		
	Bottom at 8.0 feet Refusal on Boulder	
9		
10		
11		
12		
13		
14		
15		

FIG. 26 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-18

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Mod. Seepage @ 5.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little medium to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8	Refusal on Boulder at 7.0 feet	
9		
10		
11		
12		
13		
14		
15		

FIG. 27 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-19

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 7.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Clayey Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9		
10		
11	Bottom at 11.0 feet	
12		
13		
14		
15		

FIG. 28

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-20

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2		
3	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; sand increased with depth	Stiff
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 29

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-21

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage from 2.0 to Bottom

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff to Very Stiff Increasing with Depth
3		
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 30 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-22

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Topsoil	--
2	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders at depth	Stiff
3		
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 31 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-23

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand little coarse to fine Gravel; occasional cobbles at depth	Stiff
3		
4		
5		
6		
7		
8	Refusal on Boulder @ 8.0 ft.	
9		
10		
11		
12		
13		
14		
15		

FIG. 32 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-24

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Brown Silty Topsoil	--
2	Brown Clayey SILT, little coarse to fine Sand, little medium to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 33

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-25

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.5 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Brown Silty Topsoil	--
1 2 3	Light orange-brown Clayey SILT, little coarse to fine Sand, trace fine Gravel	Firm
4 5 6 7 8 9	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; cobbles and boulders at depth; slightly sandier with depth	Stiff
10	Bottom at 10.0 feet	
11 12 13 14 15		

FIG. 34

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-26

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-15-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.0 ft. to bottom

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Brown Silty Topsoil	--
1	Light orange-brown Clayey SILT, little coarse to fine Sand, trace fine Gravel	Firm
2		
3		
4	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
5		
6		
7		
8		
9		
10	Bottomat 10.0 feet	
11		
12		
13		
14		
15		

FIG. 35 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-27

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9	Bottom at 8.5 feet.	
10		
11		
12		
13		
14		
15		

FIG. 36 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-28

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0 ft.

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1 2	Light orange-brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3 4 5 6 7 8 9	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; cobbles and boulders	Stiff
10	Bottom at 9.5 feet	
11 12 13 14 15		

FIG. 37 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER P-29

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 4.5' to bottom

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1	Light orange-brown Clayey SILT, little coarse to fine Sand, trace Gravel	Firm
2		
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders	Stiff
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 38 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-30

LOCATION Pugsley Rd., Southeast, New York

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Little orange brown SILT, little coarse to fine Sand trace fine Gravel	Firm
3		
4		
5	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles and boulders	Stiff
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 39 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-31

LOCATION Pugsley Rd. Southeast N.Y.

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Heavy Seepage @ 2.5' to Bottom

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light orange brown SILT, little coarse to fine Sand, trace Gravel	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff
5		
6		
7		
8	Bottom at 8.0 feet	
9		
10		
11		
12		
13		
14		
15		

FIG. 40 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-32

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Light orange brown Clayey SILT, little coarse to fine Sand	Firm
3	Brown Clayey SILT, some coarse to fine Sand	Stiff
4		
5		
6		
7		
8	Refusal on Boulder @ 7.5 feet	
9		
10		
11		
12		
13		
14		
15		

FIG. 41

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-33

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS DRY

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Light orange-brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff
5		
6		
7		
8	Refusal on boulder at 7.3 feet	
9		
10		
11		
12		
13		
14		
15		

FIG. 42

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-34

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1 — 2	Light orange-brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3 — 4 — 5 — 6 — 7	Light gray-brown SILT, little coarse to fine Sand, little coarse to fine Gravel; frequent cobbles	Very Stiff
8	Bottom at 8.0 feet	
9 — 10 — 11 — 12 — 13 — 14 — 15		

FIG. 43

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-35

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Clayey Topsoil	--
2	Light orange-brown Clayey SILT, little coarse to fine Sand, trace fine Gravel	Firm
3	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff
4		
5		
6		
7		
8		
9		
10		
11	Bottom at 10.5 feet	
12		
13		
14		
15		

FIG. 44 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-36

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-16-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1 2 3	Gray brown SILT, little coarse to fine Sand, trace fine Gravel	Stiff
4 5 6 7 8 9	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; frequent cobbles	Very Stiff
10	Bottom at 10.0 feet	
11 12 13 14 15		

FIG. 45 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-37

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-16-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1	Light orange-brown SILT, little medium to fine Sand	Firm
2		
3	Light brown SILT, and medium to fine Sand, trace coarse to fine Gravel	Stiff
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 46 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-38

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2		
3	Brown SILT, some coarse to fine Sand, little coarse to fine Gravel; frequent cobbles; occasional boulder	Stiff
4		
5		
6		
7		
8		
9	Bottom at 8.5 feet	
10		
11		
12		
13		
14		
15		

FIG. 47 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-39

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
3	Brown SILT, and medium to fine Sand, trace medium to fine Gravel; occasional cobbles	Stiff
10	Bottom at 9.5 feet	

FIG. 48 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-40

LOCATION Puglsey Rd. Southeast NY

DATE EXCAVATED 9-17-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1	Light orange-brown Clayey SILT, little coarse to fine Sand	Firm
2		
3		
4	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 49 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-41

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1 — 2	Orange-brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3 — 4 — 5 — 6 — 7 — 8	Brown SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
9	Bottom at 8.5 feet	
10 — 11 — 12 — 13 — 14 — 15		

FIG. 50

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-42

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9	Refusal on boulder @ 8.3 feet	
10		
11		
12		
13		
14		
15		

FIG. 51

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-43

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 2.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
3		
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 52

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-44

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 5.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2		
3	Brown Clayey SILT, some coarse to medium to fine Sand, little medium to fine Gravel	Stiff
4		
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 53 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-45

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 6.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Orange-brown SILT, little coarse to fine Sand, trace Gravel	Firm
3		
4		
5	Brown Clayey SILT, little coarse to fine Sand, little coarse to fine Gravel	Stiff
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 54 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-46

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 28"

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Orange brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; cobbles and boulders throughtout	Stiff
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 55

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 | TEST PIT NUMBER TP-47

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 | INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 7.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
	Dark brown Silty Topsoil	--
1		
2	Brown SILT, and coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Dense
3		
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 56

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-48

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9/17/87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Dry

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Orange brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; cobbles and boulders	Stiff
4		
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 57 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-49

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Very Slight Seepage @ 3.0' and 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	
2		
3	Brown SILT, some coarse to fine Sand, little coarse to fine Gravel	Very Dense
4		
5		
6		
7		
8	Bottom at 8.3 feet	
9		
10		
11		
12		
13		
14		
15		

FIG. 58 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-50

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Slight Seepage @ 2.5';Heavy Seepage @ 6.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Brown Silty Topsoil	--
2	Orange-brown SILT, little coarse to fine Sand, trace fine Gravel	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Stiff
5		
6		
7		
8		
9		
10	Bottom at 10.0 feet	
11		
12		
13		
14		
15		

FIG. 59 SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-51

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 3.5'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	--
2	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel; occasional cobbles	Very stiff
3		
4		
5		
6		
7		
8		
9	Bottom at 9,0 feet	
10		
11		
12		
13		
14		
15		

FIG. 60

SOILS ENGINEERING SERVICES

PROJECT NO. N-2434-87 TEST PIT NUMBER TP-52

LOCATION Pugsley Rd. Southeast NY

DATE EXCAVATED 9-17-87 INSPECTED BY DJ

GROUNDWATER OBSERVATIONS Seepage @ 3.0'

DEPTH	SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
1	Dark brown Silty Topsoil	
2	Light oragne brown SILT, little coarse to fine Sand trace Gravel	Firm
3		
4	Brown Clayey SILT, some coarse to fine Sand, little coarse to fine Gravel	Stiff
5		
6		
7		
8		
9	Bottom at 9.0 feet	
10		
11		
12		
13		
14		
15		

FIG. 61

SOILS ENGINEERING SERVICES

APPENDIX O-1

Phase I
Environmental Site Assessment

Planned Northeast Interstate Logistics Center Property
Barrett Road & Pugsley Road, Town of Southeast
(Section 45; Block 1; Lots 4, 5, 8, 12 & 13)

March 2018

Prepared For:

Putnam Seabury Partners, LP
287 King Street
Chappaqua, NY 10514

Prepared By:

CA RICH Consultants, Inc.
17 Dupont Street
Plainview, NY 11803-1614

March 29, 2018

Putnam Seabury Partners, LP
287 King Street
Chappaqua, NY 10514

Attn: Mr. Harvey Schulweis

Re: **Phase I Environmental Site Assessment**
Northeast Interstate Logistics Center Property
Barrett Road & Pugsley Road,
Town of Southeast, NY
Section 45; Block 1; Lots 4, 5, 8, 12 & 13.

Dear Mr. Schulweis

The following report summarizes a Phase I Environmental Site Assessment (ESA) of the above-referenced location (hereinafter referred to as the Property or the Site), performed by CA RICH Consultants, Inc. (CA RICH). This Phase I ESA was completed in substantive conformance with the scope and limitations of ASTM Practice E 1527-13, which sets forth nationally, accepted Phase I guidance criteria. In addition, a Tier 1 vapor encroachment screening was completed in accordance with ASTM E 2600-10 and is included in this report.

If you have any questions pertaining to this report, please feel free to contact the undersigned. We thank you for the opportunity to provide you with our professional environmental services.

Sincerely,

CA RICH CONSULTANTS, INC.

Richard J. Izzo, PG, CPG, EP
Vice President

Reviewed by:

Jason T. Cooper, PG, CPG, EP
Senior Project Manager

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Figure

Figure 1 - Property Location Map

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EXECUTIVE SUMMARY

CA RICH Consultants, Inc. (“CA RICH”) of Plainview, New York has completed this Phase I Environmental Site Assessment (ESA) of the Property located along Barret & Pugsley Road in the Town of Southeast, Putnam County, NY (the Property). CA RICH performed this Phase I ESA in substantive conformance with the suggested informational requirements, scope, and limitations of the American Society for Testing & Materials (ASTM) Standard Practice E 1527-13 for ESAs. Any exceptions to, or deletions from, these practices are described in Section 1.4 of this report.

The subject Property is an approximately 327-acre parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. The location of the Property is illustrated on Figure 1. The Property is currently undeveloped and consists of mature woodlands and overgrown fields separated by stone walls. The Property was reportedly historically used as a dairy farm. Three small unnamed ponds and associated wetland areas exist on the site along with a stream identified as Beaver Brook, a tributary to the Middle Branch Croton River.

The information and findings presented herein are based upon the data acquired during the Property visit and through pertinent information obtained from regulatory agencies, responsible persons knowledgeable about the Property, and other historical information sources. Based upon our site inspection and the historical information reviewed for this Phase I ESA, no Recognized Environmental Conditions (RECs) were identified in connection with the subject Property.

1.0 INTRODUCTION

1.1 Purpose

The purpose of this Phase I ESA is to identify ASTM-defined RECs associated with the subject Property. This assessment was conducted in substantive conformance with ASTMs "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process"* E 1527-13.

This Standard defines a REC as the presence of any hazardous substance or petroleum product in, on, or at the property due to any past, current, or future release to the environment. The term *recognized environmental condition* does not include a *de minimis* condition. A de minimis condition generally does not present a material risk or threat of harm to public health or the environment, and would generally not be the subject of an enforcement action if brought to the attention of an appropriate governmental regulatory agency.

Additionally, Controlled Recognized Environmental Conditions (CRECs), and Historical Recognized Environmental Conditions (HRECs) are defined in the ASTM E 1527-13 standard. A CREC is a recognized environmental condition resulting from a past release of hazardous substance or petroleum product that has been addressed to the satisfaction of the applicable regulatory agency, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

An HREC is a ‘past-release’ of any hazardous substance or petroleum product that has occurred in connection with a property. An HREC meets unrestricted use criteria and/or has been addressed to the satisfaction of the applicable established regulatory, without subjecting the property to any required controls. A condition considered by the environmental professional to be a CREC and/or an HREC will be listed in the Findings section of this Phase I ESA and as a REC in the Conclusion section.

This Standard is designed to constitute "*all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice*" as defined in CERCLA

42 USC 9601 (35) (B). Consequently, this Assessment investigates the historical land use and present-day condition of the Property in accordance with accepted standards prevailing within the lending industry and the environmental assessment profession.

1.2 Detailed Scope of Services

The following general activities were performed by CA RICH as part of this Phase I ESA:

- Visual and physical inspection of representative and reasonably accessible areas of the Property by an experienced CA RICH Environmental Professional (EP) or their appointee under their direct supervision. The inspection also included a review of building practices at adjoining properties;

- Investigation of historical land use practices including review of available Local Directory publications and historical Sanborn® Fire Insurance Maps, Aerial Photographs, Topographical Maps, discussions with knowledgeable parties associated with the Property and other readily available records or reports (i.e. prior Phase 1's);

- Review and inquiry of relevant Federal, State, and local database records pertaining to the subject Property and properties located within the approximate minimum search distance for the purposes of identifying any potential sources of migrating hazardous substances or petroleum products; and,

- Review of the Property's proximity to ecologically sensitive areas or media (i.e. parks, rivers, underlying ground water, etc.) using records and maps published by the Federal United States Geological Survey (USGS) along with neighborhood reconnaissance.

1.3 Significant Assumptions

For the purpose of performing this Phase I ESA, CA RICH assumes that information provided to us by the Client, database search companies, historical records, and interviews, is accurate. Our findings and conclusions regarding the potential environmental impact of nearby, off-site buildings or adjoining property facilities upon the subject Property are based upon readily available information from review of the environmental databases and observable conditions at the time of inspection by the EP. Any further, more detailed review or interpretation of a specific file or record is beyond the standard Phase I scope of work approved at this time.

Further, the EP investigator(s) cannot be held responsible for either innocent or intentional misrepresentations, inaccurate statements, claims made, or information furnished to CA RICH regarding the environmental integrity of this Property.

1.4 Limitations and Exceptions

CA RICH performed this Phase I ESA of the subject Property in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry as set forth in the ASTM E 1527-13 Standard. CA RICH has included review of some non-ASTM issues for this assessment including asbestos, lead based paint, and radon gas. Otherwise, there have been no intentional deviations or deletions from this practice in the performance of this assessment. The assessment included a visual (observable) inspection of representative areas of the Property, the examination of readily ascertainable and practically reviewable public records concerning the current and prior use of the Property, recorded environmental conditions, and further discussions with responsible and knowledgeable parties associated with the Property.

The findings, conclusions and professional opinion set forth in this environmental report are based upon the limited information available to CA RICH during this assessment period. If new information becomes available concerning the Property and environs relative to existing or future intended land use after the date of this report, the findings and conclusions contained herein may be subject to modification. While this Assessment was performed in accordance with good commercial and customary practice and generally accepted protocols within the environmental consulting industry, CA RICH cannot guarantee that the Property is completely free of hazardous substances, petroleum products, or other materials or conditions that could subject the Owner(s) to potential liabilities. The presence or absence of any such material and/or condition may only be revealed or confirmed through testing and analysis of any stored or suspect material and/or condition. These include, but are not limited to: suspect residual liquids, gels, and/or solid waste materials, underlying fill, fluids, soils and/or soil vapors; sediments, ground water, surface water, chemicals, residues, biologicals, odors, soot, refuse and/or building materials.

Subsurface conditions were not field-investigated and were outside the scope of this Phase I ESA and therefore, may differ from the conditions implied by records review and/or surficial observations. Conditions such as waste emplacement, fill, and soil or groundwater contamination would be disclosed to CA RICH only by surficial indications, interviews, or available regulatory records. In the absence of such information, these possible conditions may only be revealed through further specific media testing or sampling and testing methodologies, all of which are beyond the scope of this Phase I Assessment, with exceptions as reported herein.

Because there are limitations to the amount of time and resources expended at this level of an initial Phase I Assessment, CA RICH cannot guarantee that all existing and pertinent Property information was reviewed. There may remain data gaps and/or additional relevant information not discovered through the standard level of all appropriate inquiry employed at this time. However, we do acknowledge that to the best of our belief, the readily ascertainable information we have supplied is true, complete, and correct; and that facts or figures that may have an adverse effect upon the validity of the findings and professional opinion provided herein have not purposely been omitted.

CA RICH has no interest other than professional in this ESA and neither its performance, nor compensation for same, is contingent upon the findings and/or opinion or recommendation(s), if any, represented herein. Any litigation matters that may pertain to the Property are not discussed and this report is not a legal opinion.

1.5 User Reliance

This report is intended for the use by Putnam Seabury Partners, LP and their associated lenders & counsel. It may not be used or relied upon by any other party, or third party, without the written consent of CA RICH. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, extensions of credit, future occupants, actual or future prospective purchasers, transferees, assignees, rating agencies, indentured trustees, and/or any institutional provider, and/or altered land usage, or altered future land usage; and the use or re-use of this document or the findings, professional opinion, or aforementioned recommendations provided herein is at the risk of said user.

This Report, or reference to it, may be included, or quoted in any offering, registration statement, or prospectus relative to a securitization or transaction involving a mortgage loan and/or other such securities.

2.0 PROPERTY DESCRIPTION

2.1 Location and Legal Description

The subject Property is an approximately 327-acre parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. The location of the Property is illustrated on Figure 1. The Tax map designation for the property is as follows: Section 45; Block 1; Lots 4, 5, 8, 12 & 13.

2.2 Description of Property

The subject Property is an approximately 327-acre parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. The location of the Property is illustrated on Figure 1. The Property is currently undeveloped and consists of mature woodlands and overgrown fields separated by stone walls. Three small unnamed ponds and associated wetland areas exist on the site along with a stream identified as Beaver Brook, a tributary to the Middle Branch Croton River.

2.3 Description of Surrounding Area

The area in which the Property is located is a rural/suburban area containing residential subdivisions, undeveloped land and commercial properties.

2.4 Current Uses of the Property

The subject Property is currently vacant and is slated for redevelopment for commercial purposes.

2.5 Current Uses of Adjoining Properties

The Property is bordered by residential properties and undeveloped land.

2.6 Site Geology & Hydrogeology

According to maps and reports published by the United States Geological Survey (USGS) and others, the Property is underlain by unconsolidated Cretaceous to Quaternary age deposits consisting of interbedded layers of clay, silt, sand and gravel. These deposits are in turn, underlain by crystalline bedrock of Cambrian and Ordivician age.

Groundwater depth underlying the Property is estimated to range from surface level to thirty feet below land surface. Site-specific groundwater depth and flow direction can only be confirmed by a hydrogeologic study, which was beyond the scope of this investigation.

Three small unnamed ponds and associated wetland areas exist on the Site along with a stream identified as Beaver Brook, a tributary to the Middle Branch Croton River.

3.0 USER-PROVIDED INFORMATION

ASTM E 1527-13 defines the “User” as: “*the party seeking to use practice E 1527-13 to complete an environmental site assessment of the property*”. The User is responsible for providing certain information (if available) to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001. Failure to provide this information could result in a determination that *“all appropriate inquiry”* is not complete. As such, a User/Owner Questionnaire was prepared in conformance with E 1527-13, and submitted to the

User and Owner. The Owner's property manager Dan Nava was interviewed during the Site inspection and his answers were recorded during the inspection. The User of this Report provided a questionnaire, which is included in Appendix D.

3.1 Title Records

Title records were not provided by the User, and were not requested by CA RICH. This is considered a data gap; however, this is not expected to have an impact on the findings for this Phase I report.

3.2 Environmental Liens

An environmental lien search was not provided by the User and was not requested by CA RICH. This is considered a data gap; however, this is not expected to have an impact on the findings of this Phase I report.

3.3 Specialized Knowledge

The user did not provide CA RICH any specialized knowledge pertinent to the environmental integrity of the Property. However, having provided professional services to the user for this site, CA RICH possesses specialized knowledge of previous environmental assessments and remedial action performed on-site in 2004 and 2005. The work done is detailed in the following reports:

- CA RICH; Remedial Action; Campus at Field Corners; November 2004
- CA RICH; Phase I ESA; Campus at Field Corners; February 2005
- Chazan Associates; Phase I ESA ; April 2005
- Chazen Associates; Phase II ESA; June 2005
- CA RICH; Dumpsite and Barn Area Cleanup; August 2005

The activities described in the above reports are summarized below:

In the fall of 2004, CA RICH was retained by Schulweis Realty to remove a 550-gallon fuel oil storage tank adjacent to a maintenance shed near the on-site farmhouse. In addition, CA RICH was asked to investigate a concrete pit beneath the floor of the maintenance shed. CA RICH removed the tank and a small associate dispenser and cleaned out the concrete pit, which was found to contain debris and oily water. The tank removal was performed in cooperation with the Town of Northeast Building Department whom were on-site to inspect the tank grave and sign off on the removal. Further detail of this sign-off is included in Sections 4.6 and 6.3.

Following this remedial action, Phase I ESA's were completed in early 2005 by CA RICH and Chazen Associates which resulted in the identification of RECs including the presence of a small dumpsite along the unnamed stream in the south-central portion of the property and the presence of waste drums, containers and an abandoned 550-gallon storage tank near a small barn to the south of the house. In addition, CA RICH identified an asbestos report that indicated the presence of asbestos material in the roofing materials of two of six on-site barns. Further, CA RICH documented the presence of an additional active underground fuel oil storage tank adjacent to the existing house (further discussed in Sections 4.6 and 6.3.

In August of 2005, CA RICH conducted cleanup activities including consolidation and removal of over 100 yards of debris from the stream-valley dumpsite and removal of the tank, drums, miscellaneous containers and minor amounts (less that one cubic yard) of stained soil in the barn area. Follow-up soil testing by Chazen Associates revealed no residual soil impacts.

3.4 Commonly Known or Reasonably Ascertainable Information

The User did not provide CA RICH with reasonably ascertainable information.

3.5 Valuation Reduction for Environmental Issues

A valuation reduction for environmental issues was not provided by the User and is not included as part of this Phase I ESA. This is considered a data gap; however, this is not expected to have an impact on the findings of this Phase I Report.

3.6 Owner, Property Manager, and Occupant Information

Access to the Property was provided by the owner's development consultant, Mr. Dave Lombardi of JMC Site Development Consultants, Inc.

3.7 Reason for Performing Phase I

The purpose of performing this Phase I ESA is to conduct environmental due diligence for the redevelopment of the Property.

4.0 SITE RECONNAISSANCE

4.1 General

The subject Property is an approximately 327-acre vacant parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. No utilities are currently provided to the Property. The Property is currently undeveloped and consists of mature woodlands and overgrown fields separated by stone walls. Three small unnamed ponds and associated wetland areas exist on the site along with a stream identified as Beaver Brook, a tributary to the Middle Branch Croton River.

4.2 Methodology and Limiting Conditions

Richard Izzo, Environmental Professional of CA RICH conducted the Site inspection on March 20, 2018. Access to the Property was provided by the owner's development consultant, Mr. Dave Lombardi of JMC Site Development Consultants, Inc.

The inspection included driving along existing roadways/trails and walking through accessible areas. During the site visit, photographs were taken to document site observations (Appendix A).

The following limiting condition were encountered during the Site inspection:

- The presence of snow cover limited inspection of the ground surface in many areas;
- The presence of steep slopes and densely wooded areas prevented access to some areas;
- The size of the Property limited the ability to physically inspect it in its entirety.

These limiting condition are not expected to affect the conclusion of this report.

4.3 Interview Information

Mr. Izzo obtained information regarding the Property from Mr. Lombardi as well as the user's counsel, Mr. Dan Richmond of Zarin & Steinmetz. Information obtained is cited within this report.

4.4 Exterior Observations

The Property is composed of mature woodland and overgrown pasture with a few main unpaved roadways/trails running throughout the central portion of the site. The central portion of the site generally contains overgrown pasture, marked by small trees and secondary growth. The eastern and western portions of the Property generally contain steep slopes ad mature woodland.

Aside from the isolated dumping of a stove and a washing machine along the main access road (center of the site), no signs of dumping, stressed vegetation, vent pipes or fill ports were observed at the time of inspection. A small concrete cistern was observed just south of the access road in the area of the 2005 "barn cleanup". This structure was observed to have an earthen bottom and was dry at the time of inspection. In addition, a 6-inch diameter steel well casing was observed along the stream valley in the southern central portion of the site. The well casing was observed to be sealed with a threaded steel cap.

4.5 Interior Observations

There are currently no structures on the Property.

4.6 Storage Tanks

Storage tanks, both aboveground (ASTs) and underground (USTs), are often used for storing fuel, waste oils, solvents, and other waste and/or potentially hazardous materials. The principal concern from storage tanks is leakage of contents due to corrosion of the tank or associated lines. The leakage may result in migration of the stored material onto the subject and/or neighboring properties via soil migration or underlying shallow groundwater flow. In general, soil and groundwater contaminated by leaks from on-site storage tanks may constitute an environmental or health hazard.

At the time of inspection, no storage tanks or associated vent pipes or fill ports were observed on the subject Property. A total of three storage tanks previously existed on site and all three have been properly removed in accordance with State and local regulations (see Section 6.3).

4.7 Toxic / Hazardous Materials

No toxic or hazardous materials were observed during the inspection.

4.8 Proximity to Environmentally Hazardous and/or Sensitive Areas

The Property is situated within a residential/commercial area of Southeast, New York. The computerized database records (Appendix B) identifies 3 listings in the categories of government reported sites and EDR Historical Records located in proximity to the Property in accordance with ASTM E 1527-13 minimum search distances. Any locatable site has been mapped on the radius search maps included in Appendix B. Pertinent sites identified are discussed in further detail in Section 6.0 of this report.

The Property contains several wetland areas that have been identified and mapped under the auspices of the appropriate regulatory agencies. In addition, a small un-named pond is present

on the north side of Barrett Road in the northeast portion of the Site. A small un-named stream flows south from this pond through the Site with eventual discharge into the Middle Branch Croton Reservoir. Beaver Brook, a NYSDEC Class C(ts) Stream (Index Number H-31-844-23-P64-) flows south along the western border of the site and eventually joins the Middle Branch Croton River to the south of the Property. Redevelopment of the Property in accordance with applicable regulations will not adversely impact these areas.

5.0 HISTORICAL LAND USE PRACTICES

To further determine historical land use and the Property's developed use, available historical Sanborn® Fire Insurance Maps, Local Directory records, Aerial Photographs and Topographical Maps were reviewed.

5.1 Sanborn Fire Insurance Mapping

Microfilm collections of fire insurance maps available through the Library of Congress, University Publications of America, and various public local sources were searched for local area coverage. Sanborn® Maps are detailed maps that show the lot configuration and improvements and may contain information regarding historical ownership, land use, and hazardous or regulated materials storage.

No Sanborn® Maps were available for the subject Property. A copy of Sanborn® Map search is attached in Appendix C.

5.2 Local City Directory

CA RICH conducted a review of available local City Directory records for the subject Property (listings on Barrett Road) from 1973 through 2014. According to the database, the Property was listed as follows:

- 1973—No listing
- 1978—No listing
- 1983—No listing
- 1988—No listing
- 1992—No listing
- 1995—No listing
- 2000 -#201: Carlo, Raymond, M
- 2005—#63: Brown, Frank, R; #201: Carlo, Raymond, M
- 2010—#7: Martin Daniel; #63: occupant unknown; #159: Walker, L; #201 occupant unknown
- 2014—#63: occupant unknown; #159: Walker, L; #201: occupant unknown

All known addresses appear to be comprised of residential listings. No surrounding property information was available. A copy of the City Directory Abstract is attached in Appendix C.

5.3 Aerial Photographs

The following table summarizes the findings of our review of historical aerial photographs.

Year	Description and Comments
1941	The subject Property is comprised of fields/pasture with some mature trees. A house and several barns are present in the north/central portion of the Property. Pugsley Road and Barrett Road extend through the Property. Adjacent and nearby areas appear undeveloped.
1958	The subject Property and nearby areas appear similar to the 1941 photograph, however, three small cottages are present along Pugsley Road in the southern portion of the Property.
1974, 1981, 1984, 1992, 1994, 1997	The subject Property appears similar to the 1958 photograph.
2008, 2011, 2015	The subject Property appears overgrown. All structures have been removed. Barrett Road appears overgrown in the western portion of the Property.

Review of the available aerial photographs dating back to 1941 indicates that the subject Property was used as pasture with a house and several barns. This is consistent with reported historical usage as a dairy farm. In 1958 small cottages are present along Pugsley Road. By 2008, all onsite structures have been removed. Copies of the aerial photographs reviewed for this report are included in Appendix C.

5.4 Topographical Maps

The following table summarizes the findings of the topographic map review.

Year	Description and Comments
1892, 1893, 1894, 1928	The subject Property contains two structures in the northern and central portions of the Property. The unnamed tributary to the Middle Branch Croton Reservoir and the Middle Branch Croton River are present in the central and western portion of the Property, respectively. Surrounding areas are mostly undeveloped. Tilly Foster Mine is labeled to the south of the Property
1943	The subject Property and nearby areas appear similar to 1928. However, only one structure is shown on the Property.
1958, 1960, 1981, 1984	The subject Property and nearby areas appear similar to 1943. However, three small structures are also present in the southern portion of the Property along Pugsley Road, and an additional structure (barn) is present in the north/central portion of the Property, near the original structure.
2013	No structures appear on the Property.

Review of the historical topographic maps dating back to 1892 identify the Property as generally vacant land with topography and surface water bodies generally consistent with the present day. Structures dating back as early as 1892 (consistent with the known locations of the on-site farmhouse, barns and cottages) are visible on the maps. A copy of each topographic map is attached to this report as Appendix C.

6.0 ENVIRONMENTAL RECORDS REVIEW

This Section discusses database records maintained by Federal, State and local environmental agencies for the subject Property and for sites located within an approximate minimum search distance from the subject Property. Available information was compiled from computerized database sources of regulatory agency records. The purpose of this database records review is to help assess the likelihood of any potential problems attributable to migrating hazardous substances or petroleum products. The minimum search distances are specified within ASTM Practice E 1527-13.

These database searches were conducted by Environmental Data Resources, Inc. (EDR) at the request of CA RICH on March 20, 2018, (Order Number: 5227852.2s). The existence of an actual toxic hazard at a specific site can be concluded only when government authorities make that determination or when that conclusion is fully documented by the findings of an appropriate site investigation undertaken by licensed professionals.

The resulting database information is briefly summarized below. Complete copies of the database report and radius maps are included in Appendix B. Additional site-specific information was requested elsewhere by CA RICH under the provisions of the Freedom of Information Law (FOIL).

6.1 Federal

The number of ASTM federally listed database sites identified in proximity to the Property is tabulated below. The search categories and database review findings are discussed in greater detail below the summary table.

Federal ASTM Database Search Category	Approx. Minimum Search Distance	Subject Property	Total Sites Plotted
EPA National Priority List Sites (NPL)	1.0 mile	Not identified	0
EPA CERCLIS Sites (SEMS)	0.50 mile	Not identified	0
EPA CERCLIS-NFRAP (SEMS-Archive)	0.50 mile	Not identified	0
EPA DELISTED NPL	1.0 mile	Not identified	0
RCRA-TSDF	0.50 mile	Not identified	0
RCRA-LQG	0.250 mile	Not identified	0
RCRA-SQG	0.250 mile	Not identified	0
RCRA-CESQG	0.250 mile	Not identified	0
CORRACTS	1.0 mile	Not identified	0
ERNS	TP	Not identified	0
FINDS	TP	Not Identified	0
HMIRS	TP	Not identified	0
FEDERAL Engineering Controls	0.50 mile	Not identified	0
FEDERAL Institutional Controls	0.50 mile	Not identified	0
FEDERAL Brownfields	0.50 mile	Not identified	0

- **EPA Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL)**

The CERCLIS list is a compilation by the US EPA of sites that the US EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), commonly known as the Superfund Act. Once sites are designated on the CERCLIS list, the USEPA uses its Hazard Ranking System to determine potential risks to human health and the

environment. Those CERCLIS sites that present the greatest risk are placed on the National Priority List (NPL), which qualifies the sites to receive remedial funding. The EPA has formally changed the name of CERCLIS to Superfund Enterprise Management System (SEMS) in 2015.

The subject Property is not identified as a CERCLIS/SEMS or NPL site and there are no NPL sites located within the approximate minimum search distance from the subject Property.

- **Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP)**

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was quickly removed without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat these investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites. The EPA has formally changed the name of CERCLIS-NFRAP to Superfund Enterprise Management System Archives (SEMS-ARCHIVE) in 2015.

The subject Property is not identified as a CERLIS-NFRAP/SEMS-ARCHIVE site and there are no CERLIS-NFRAP/SEMS-ARCHIVE sites reported within the approximate minimum search distance from the subject Property.

- **Delisted National Priority List (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.

The subject Property is not identified as a Delisted NPL site and there are no Delisted NPL sites reported within the approximate minimum search distance from the subject Property.

- **Resource Conservation and Recovery Act (RCRA)**
  RCRA Treatment Storage and Disposal Facility (TSDF)
  RCRA Large and Small Quantity Generator (LQG/SQG)
  RCRA Conditionally Exempt Small Quantity Generator (CESQG)

The RCRA was enacted to regulate facilities that generate, store, transport, or dispose of hazardous waste. These facilities must file notification forms with the EPA, which maintain the records in the RCRA Information System (RCRIS) Notifier's database. Inclusion on the RCRIS list does not signify contamination or mishandling of hazardous materials by hazardous waste. Notifier's RCRA-listed sites are not indicative of an environmental concern unless an actual hazard is known to exist. The database includes selective information on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA.

The subject Property is not listed as a SQG, LQG, TDSF or CESQG site; and there are no SQG, LQG, TDSF or CESQG sites within the approximate minimum search distance from the subject Property.

- **Corrective Action Activity (CORRACTS)**

CORRACTS is a list of handlers with RCRA Corrective Action Activity. It reports which nationally defined corrective action core events have occurred for every handler that has had a corrective action activity.

The subject Property is not identified as a CORRACTS and there are no CORRACTS sites reported within the approximate minimum search distance from the subject Property.

- **Emergency Response Notification System (ERNS)**

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. Pursuant to the ASTM Practice E 1527-13, the ERNS database is searched only for the subject Property.

The subject Property is not identified in the U.S. EPA ERNS database.

- **Facility Index System (FINDS) /Facility Identification Initiative Program Summary Report**

The FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

The subject Property is not listed in the U.S. EPA FINDS database.

- **Hazardous Materials Information Reporting System (HMIRS)**

The HMIRS database is a list of United States Department of Transportation (US DOT) pipeline and hazardous materials safety administration incidents reports taken from the Hazmat Intelligence Portal.

The subject Property is not identified in the HMIRS database.

- **Federal Engineering (ENG) Controls**

The US Engineering Controls Site List lists sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to mitigate or eliminate pathways for regulated substances to enter environmental media or effect human health.

There are no documented Engineering Controls listed for the subject Property and there are no Engineering Controls sites reported within the approximate minimum search distance from the subject Property.

- **Federal Institutional (INST) Controls**

The US Institutional Controls List is a listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of an institutional control.

There are no documented Institutional Controls listed for the subject Property and there are no Institutional Controls sites reported within the approximate minimum search distance from the subject Property.

- **Federal Brownfields**

Federal Brownfields is a USEPA listing of Brownfield properties from the Cleanups in My Community program, which provides information on Brownfield properties for which information is reported back to the EPA, as well as areas served by Brownfield Grants.

The subject Property is not listed on the US Brownfield list and there are no Federal Brownfield sites reported within the approximate minimum search distance from the subject Property.

6.2 State and Tribal

The numbers of State-listed database sites identified in proximity to the Property are tabulated below. The search categories and database review findings are discussed in greater detail in the summary table.

State ASTM Database Search Category	Approx. Minimum Search Distance	Subject Property	Total Sites Plotted
NYS Hazardous Waste Site (SHWS)	1.0 mile	Not identified	0
NYS Solid Waste Facility or Landfill (SWF/LF)	0.50 mile	Not identified	0
NY Vapor Reopened	1.0 mile	Not identified	0
NYS Leaking Underground Storage Tank (LTANKS)	0.50 mile	Not identified	2
NY Spills (NY SPILLS)	0.125 mile	Not identified	0
NYS Registered Underground Storage Tank (UST)	0.250 mile	Not identified	0
NYS Registered Aboveground Storage Tank (AST)	0.250 mile	Not identified	0
TANKS	0.250 mile	Not identified	1
NYS Chemical Bulk Storage Facilities (CBS)	0.250 mile	Not identified	0
NYS Major Oil Storage Facilities (MOSF)	0.50 mile	Not identified	0
NY Brownfields	0.50 mile	Not identified	0
NY Engineering Controls	0.50 mile	Not identified	0
NY Institutional Controls	0.50 mile	Not identified	0
NY Dry Cleaners	0.25 mile	Not identified	0
EDR Historical Auto	0.125 mile	Not Identified	0
EDR Historical Cleaner	0.125 mile	Not Identified	0

- **New York State Inactive Hazardous Waste Disposal Sites (SHWS)**

New York State Department of Environmental Conservation (NYSDEC) publishes an annual directory of Inactive Hazardous Waste Disposal Sites currently being investigated or requiring investigation. Sites are assigned a Classification number from 1 to 5. Class 1 sites are believed

to be an imminent danger to the public health or environment and Class 5 sites have been properly closed and require no further action.

The subject Property is not listed as an SHWS and there are no SWHS sites reported within the approximate minimum search distance from the subject Property.

- **New York State Solid Waste Facility or Landfill (SWF/LF)**

State landfill records typically contain an inventory of solid waste disposal facilities or landfills. 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.

The subject Property is not identified as an SWF/LF and there no SWF/LF sites located within the approximate search radius of the Property.

- **New York Vapor Reopened**

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposure at sites. As a result, all past, present and future contaminated sites will be evaluated to determine whether they have any potential for exposures related to soil vapor intrusion.

The subject Property is not identified as a New York State Vapor Reopened site and there are no documented New York State Vapor Reopened sites reported within the approximate minimum search distance from the subject Property.

- **New York State Leaking Underground Storage Tank (LUST) Sites (LTANKS) and Spills (SPILLS)**

The LTANKS Incident Reports contain an inventory of reported leaking storage tanks reported from April 1, 1986 through the most recent update. Causes of the incidents include tank test failures, tank failures and tank overfills or releases determined during the removal of USTs that have leaked.

The subject Property is not identified on the LTANKS or NY SPILLS lists. There are 2 LTANKS and no NY SPILLS sites reported within the approximate minimum search distance from the subject Property. According to the database reviewed the LTANKS sites have been cleaned up to the satisfaction of the Department and no further action is required. These LTANKS sites are not expected to have a direct negative impact to the subject Property.

- **New York State Registered Underground Storage Tank (UST) and Aboveground Storage Tanks (AST)**

New York State requires the registration of all bulk petroleum storage tank facilities with a combined storage capacity greater than 1,100 gallons and less than 400,000 gallons.

The subject Property is not identified on the UST or AST lists. There are no UST or AST sites reported within the approximate minimum search distance from the subject Property.

- **TANKS**

The TANKS database contains records of facilities that are or have been regulated under the NY State Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the TANKS list revealed one LTANKS site within the approximate minimum search distance from the subject Property. Based upon the data provided, this site is not expected to have an adverse effect upon the subject Property.

- **New York State Chemical Bulk Storage Facility (CBS)**

New York State requires the registration of all CBS facilities storing those hazardous substances that are listed in 6 NYCRR Part 597 in aboveground tanks with storage capacities of 185 gallons or greater, and/or in underground tanks of any size. The presence of CBS facilities does not indicate an area of environmental concern unless the tanks have leaked product.

The subject Property is not identified as a CBS site and there are no CBS sites reported within the approximate minimum search distance from the subject Property.

- **New York State Major Oil Storage Facility (MOSF)**

These are facilities that may be onshore facilities or vessels, with petroleum storage capacities greater than 400,000 gallons.

The subject Property is not identified as a MOSF and there are no MOSF sites reported within the approximate minimum search distance from the subject Property.

- **New York Brownfields**

The NY Brownfields is a listing of Brownfield properties currently or historically in the NY State Brownfield Program. The database includes properties in various stages of the program.

The subject Property is not identified as a NY Brownfield site and there are no NY Brownfield sites reported within the approximate minimum search distance from the subject Property.

- **New York State Engineering (ENG) Controls**

The New York State Engineering Controls Site List is a listing of sites with engineering controls in place.

No New York State Engineering Control sites are listed for the subject Property and there are no sites within the approximate search radius documented with Engineering Controls.

- **New York State Institutional (INST) Controls**

The New York State Institutional Controls List is a listing of sites with institutional controls in place.

No New York State Institutional Control sites are listed for the subject Property and there are no sites within the approximate search radius documented with Institutional Controls.

- **NY Dry Cleaners**

This database includes a listing of all registered dry cleaning facilities.

The subject Property is not identified as a NY Dry Cleaner; and there are no dry cleaners listed within the approximate minimum search distance from the subject Property.

6.3 Local

- **Putnam County Department of Health (PCDOH)**

CA RICH requested a site-specific search via the Freedom of Information Law (FOIL) of the PCDOH records for any and all environmental information regarding spills, storage tank information and removal, sampling, violations, hazardous waste, septic/sewer systems and/or storm drains. At the time of this Report a response has not been received from the Department. A copy of the FOIL request is included in Appendix D.

- **Town of Southeast Building Department**

CA RICH requested a site-specific search via the FOIL of the PCDOH records for any and all environmental information in connection with the Property. CA RICH reviewed available files at the Building Department on March 22, 2018. The following pertinent documents were reviewed:

1. Demolition Permit No. 189291D, dated 9/19/05 for demolition of two barns along with a letter dated 9/20/2005 from Environmental Maintenance Contractors, Inc. certifying no asbestos-containing materials are present;

2. Certificate of Compliance dated November 2004 for proper removal of a 550-gallon underground storage tank;

3. Town of Southeast Building Department Inspection Sheet dated 1/7/08 stating “house, barn & sheds were all removed along with debris”;

4. Demolition Permit No. 18289D dated 9/19/05 for demolition of 1 house, 1 barn and 2 sheds;

5. Certificate of Compliance dated 10/19/05 for proper removal of a 550-gallon underground storage tank associated with the house, along with a Town of Southeast Inspection Sheet dated 10/19/05 stating “UST removed, no leaks”

6. Permit No. 18342E dated 10/18/05 for underground storage tank removal by Asset Management Associates;

7. Town of Southeast Building Department Inspection Sheet dated 1/7/08 for removal of three cottages and garage located at 10-5 Pugsley Road, stating “all buildings and debris removed”; and

8. Town of Southeast Building Department Inspection Sheet dated 5/9/03 for removal of 2 ½ story dwelling located at 10-50 Pugsley Road stating “site clean, no debris”.

A copy of the FOIL request is included in Appendix D.

6.4 Vapor Encroachment Survey (VES)

A Tier 1 Vapor Encroachment Survey (VES) was conducted using the EDR database ordered by CA RICH on March 20, 2018 and in conjunction with the Phase I ESA field inspection to meet the ASTM E2600-10 standard. The field inspection revealed the subject Property is an approximately 327-acre parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. The Property is currently vacant land. Surrounding properties consist of vacant land, residential and commercial land use. No gasoline filling stations, dry cleaners or automotive repair shops were observed during the inspection.

The direction of groundwater flow can help to establish any upgradient locations of potential soil vapor relative to the Site. Upgradient sources of soil vapor present a greater concern for vapor encroachment at the Site. According to USGS topographic maps, groundwater is assumed to be moving in a southerly direction towards the Middle Branch Croton Reservoir.

The EDR database (Appendix B) was used to aid in identifying neighboring properties that may present a vapor encroachment condition. A review of the database found that there are 2 LTANKS and one TANKS sites reported within the approximate minimum search distance from the subject Property. According to the database reviewed all NY LTANKS sites have been closed out;. These LTANKS and TANKS sites are not expected to have a direct negative impact to the subject Property.

Based upon the information reviewed, a vapor encroachment condition is unlikely to exist at the subject Property.

7.0 ADDITIONAL SERVICES

7.1 Asbestos

Until the late 1970s, asbestos was used in, but not limited to, insulating materials, fireproofing, roofing, flooring, and decorative building materials. The USEPA defines asbestos material as any material containing greater than 1 % asbestos by weight. Asbestos-Containing Materials (ACM), in a form which can crumble or be reduced to powder under hand pressure (friable), can release asbestos fibers which are proven to be carcinogenic and cause respiratory illness. The presence of asbestos in a building does not mean that the health of building occupants is necessarily endangered. As long as ACM remains in good condition and is not disturbed, exposure to asbestos fibers is unlikely.

There are currently no structures or associated debris on the Property. As such, asbestos is not an issue at the Site.

7.2 Radon Gas

Radon is a naturally occurring, invisible, odorless, carcinogenic gas that is generated by the decay of radioactive elements found in certain crystalline rock types or derivatives thereof. Inhalation of radon gas represents the principal exposure pathway. In outdoor air, radon is diluted to such low concentrations that it does not pose a health hazard. However, once inside an enclosed space such as basements, pipe chases, drains and foundation crawl spaces, radon gas may accumulate to dangerous concentrations. The New York State Department of Health and the United States Environmental Protection Agency use 4 picocuries per liter (pCi/L) as a recommended action level for the lowest primary living area of the home. Confirmation of the presence or absence of radon gas is possible through testing.

Review of geologic maps prepared by the United States Geological Survey and the findings of an EPA Residential Radon Survey (Appendix B page A-31) revealed that the Property is located in an area identified as Zone 1, which indicates that 89% of indoor living area levels of radon are below the action level of 4 pCi/L. Although the potential for naturally occurring radon gas contamination at the Property exists, it is unlikely.

7.3 Lead-Based Paint

Research has shown that, when ingested, lead can cause permanent neurological problems and brain damage. Federal regulations were promulgated in 1978 that ban the sale of paint containing more than 0.06 percent lead by weight. Consequently, any paint known to contain lead in excess of 0.06 percent is considered to be lead-based.

There are currently no structures or associated debris on the Property. As such, lead-based paint is not an issue at the Site.

7.4 Polychlorinated Biphenyl's (PCBs)

Polychlorinated biphenyl's (PCBs) have commonly been used as dielectric (insulating) fluids in transformers, capacitors and fluorescent light ballast's up through the 1970's. PCB dielectric fluid, if released or ignited from a leaking or malfunctioning transformer, could present a hazard. Research has shown that short-term exposure to PCBs may induce reactions such as eye irritation, skin swelling, and gastrointestinal disturbances. With chronic exposure, PCBs are believed to be carcinogenic.

No pad-mounted or pole mounted transformers were observed on the Property.

8.0 FINDINGS AND PROFESSIONAL OPINION

The findings presented herein are based upon the data acquired during the Property visit and through pertinent information obtained from regulatory agencies, responsible persons knowledgeable about the Property, and other historical information sources. No significant data gaps were encountered in the production of this Report.

The subject Property is an approximately 327-acre parcel located along Barrett Road & Pugsley Road in the Town of Southeast, Putnam County, NY. The Property is currently undeveloped and consists of mature woodlands and overgrown fields separated by stone walls. The Property was reportedly historically used as a dairy farm. Three small unnamed ponds and associated wetland areas exist on the site along with a stream identified as Beaver Brook, a tributary to the Middle Branch Croton River.

9.0 CONCLUSIONS

We have performed this Phase I Environmental Site Assessment of this 327-acre parcel located along Barrett Road & Pugsley Road in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no RECs in connection with the subject Property.

10.0 DECLARATIONS OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

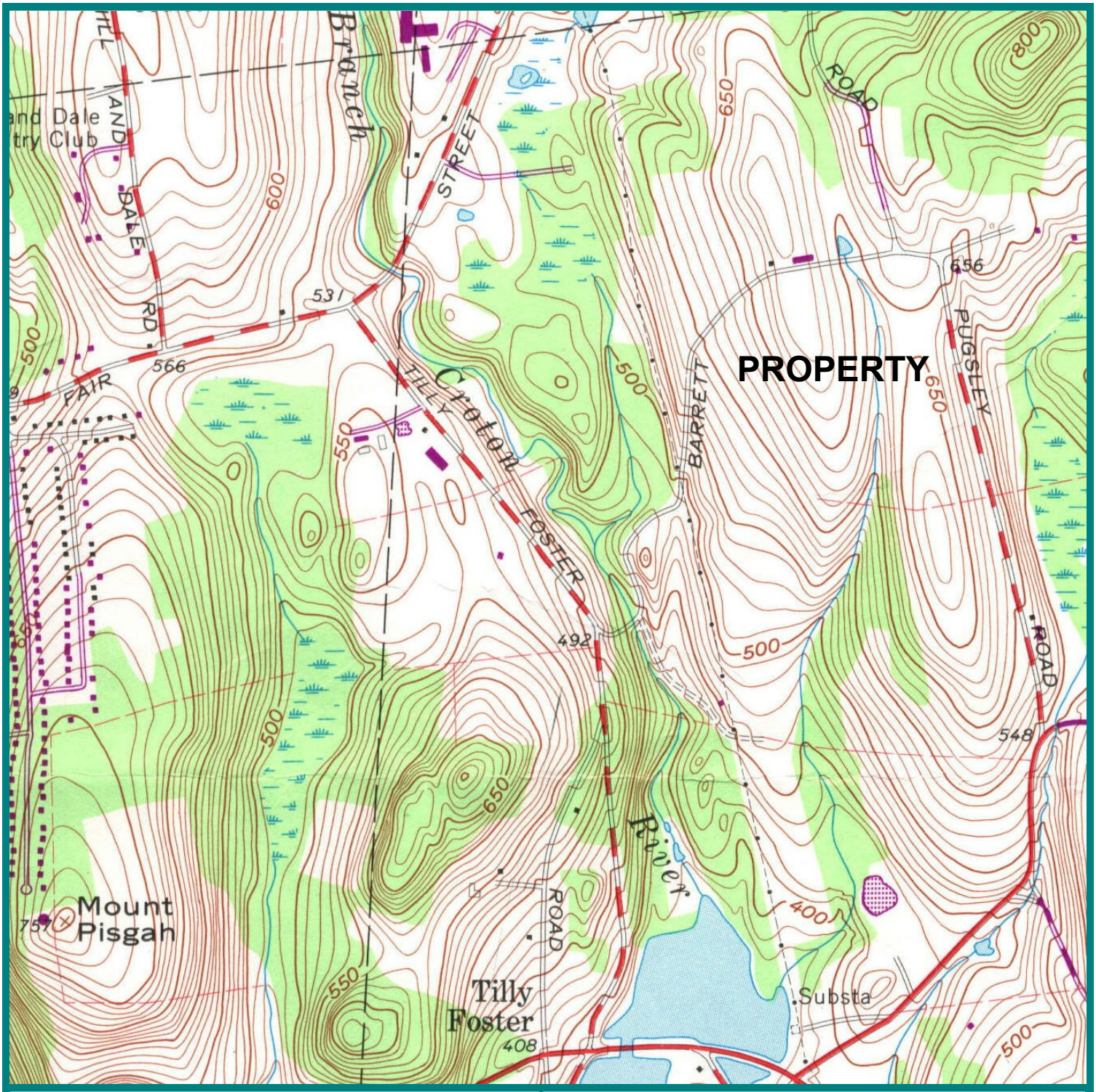
CA RICH CONSULTANTS, INC.

Richard J. Izzo, PG, CPG, EP
Vice President

Reviewed by:

Jason T. Cooper, PG, CPG, EP
Senior Project Manager

FIGURE



APPROX. SCALE (ft.)

0 1,000 2,000

N

Adapted from USGS Lake Carmel Quadrangle Map (1981photorevision)

CA RICH ENVIRONMENTAL SPECIALISTS

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE: **Property Location**		DATE: **3/28/18**
		SCALE: **AS SHOWN**
FIGURE: **1**	**Planned Northeast Interstate Logistics Center Property Town of Southeast, NY**	DRAWN BY: **JP**
DRAWING:		APPR. BY: **RJI**

APPENDIX A

SELECT SITE PHOTOGRAPHS

Planned Northeast Interstate Logistics Center Property
Barrett Road & Pugsley Road, Town of Southeast
Digital Photo Log
March 20, 2018 Inspection

Southern Portion of Property

Planned Northeast Interstate Logistics Center Property
Barrett Road & Pugsley Road, Town of Southeast
Digital Photo Log
March 20, 2018 Inspection

Central Portion of Property

Planned Northeast Interstate Logistics Center Property
Barrett Road & Pugsley Road, Town of Southeast
Digital Photo Log
March 20, 2018 Inspection

Northern Portion of Property

APPENDIX B

ENVIRONMENTAL DATABASE

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509

Inquiry Number: 5227852.2s
March 20, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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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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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

68 BARRETT ROAD
BREWSTER, NY 10509

COORDINATES

Latitude (North):	41.4322900 - 41° 25' 56.24''
Longitude (West):	73.6384030 - 73° 38' 18.25''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	613765.4
UTM Y (Meters):	4587429.0
Elevation:	646 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5939751 LAKE CARMEL, NY
Version Date:	2013
East Map:	5939739 BREWSTER, NY
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150906, 20150610
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
68 BARRETT ROAD
BREWSTER, NY 10509

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	TRANSPORTATION BLDG-	ZIMMER RD. TERRAVEST	TANKS	Higher	543, 0.103, NNE
2	UNILOCK NEW YORK INC	51 INTERNATIONAL BLV	LTANKS, SPDES	Lower	2259, 0.428, ESE
3	RAICHLE MOLITOR	GENEVA ROAD	LTANKS	Higher	2624, 0.497, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL Sites with Institutional Controls

Federal ERNS list

ERNS Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS Inactive Hazardous Waste Disposal Sites in New York State

State and tribal landfill and/or solid waste disposal site lists

SWF/LF Facility Register

State and tribal leaking storage tank lists

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
HIST LTANKS Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
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 Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

RES DECL Restrictive Declarations Listing
ENG CONTROLS Registry of Engineering Controls
INST CONTROL Registry of Institutional Controls

State and tribal voluntary cleanup sites

VCP Voluntary Cleanup Agreements
INDIAN VCP Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS Brownfields Site List
ERP Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE Registered Waste Tire Storage & Facility List

SWRCY Registered Recycling Facility List
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register
DEL SHWS Delisted Registry Sites
US CDL National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST Historical Petroleum Bulk Storage Database
HIST AST Historical Petroleum Bulk Storage Database

Local Land Records

LIENS Spill Liens Information
LIENS 2 CERCLA Lien Information

Records of Emergency Release Reports

HMIRS Hazardous Materials Information Reporting System
NY Spills Spills Information Database
NY Hist Spills SPILLS Database
SPILLS 90 SPILLS 90 data from FirstSearch
SPILLS 80 SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated
FUDS Formerly Used Defense Sites
DOD Department of Defense Sites
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
2020 COR ACTION 2020 Corrective Action Program List
TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System
SSTS Section 7 Tracking Systems
ROD Records Of Decision
RMP Risk Management Plans
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)
MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database

HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
FINDS Facility Index System/Facility Registry System
UXO Unexploded Ordnance Sites
ECHO Enforcement & Compliance History Information
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
AIRS Air Emissions Data
COAL ASH Coal Ash Disposal Site Listing
DRYCLEANERS Registered Drycleaners
E DESIGNATION E DESIGNATION SITE LISTING
Financial Assurance Financial Assurance Information Listing
HSWDS Hazardous Substance Waste Disposal Site Inventory
MANIFEST Facility and Manifest Data
SPDES State Pollutant Discharge Elimination System
VAPOR REOPENED Vapor Intrusion Legacy Site List
UIC Underground Injection Control Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS Recovered Government Archive State Hazardous Waste Facilities List
RGA LF Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS 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. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 02/12/2018 has revealed that there are 2 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RAICHLE MOLITOR Date Closed: 1999-03-18 Site ID: 93618 Program Number: 9812643	GENEVA ROAD	ESE 1/4 - 1/2 (0.497 mi.)	3	10

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNILOCK NEW YORK INC Date Closed: 2007-07-24 Site ID: 384762 Program Number: 0704583	***51 INTERNATIONAL BLV***	***ESE 1/4 - 1/2 (0.428 mi.)***	***2***	***8***

State and tribal registered storage tank lists

TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the TANKS list, as provided by EDR, has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

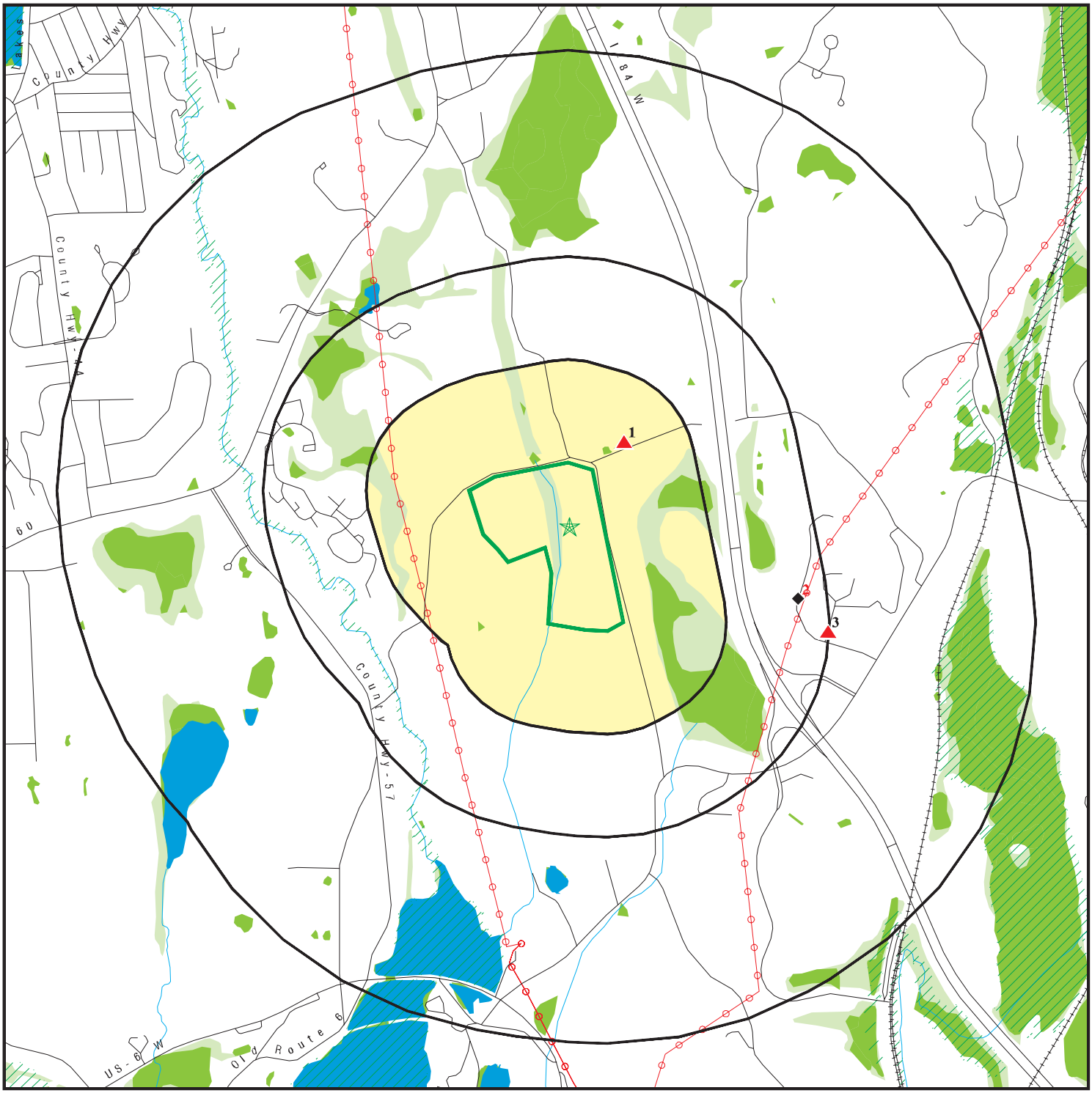
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRANSPORTATION BLDG- Database: TANKS, Date of Government Version: 12/22/2017 Facility Id: 3-489468 Site Status: Active	ZIMMER RD. TERRAVEST	NNE 0 - 1/8 (0.103 mi.)	1	8

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
METRO NORTH (CONRAIL-HARLEM DIV.)	SHWS
FAIR STREET SITE	SHWS
BREWSTER TRANSIT MIX	SHWS

OVERVIEW MAP - 5227852.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

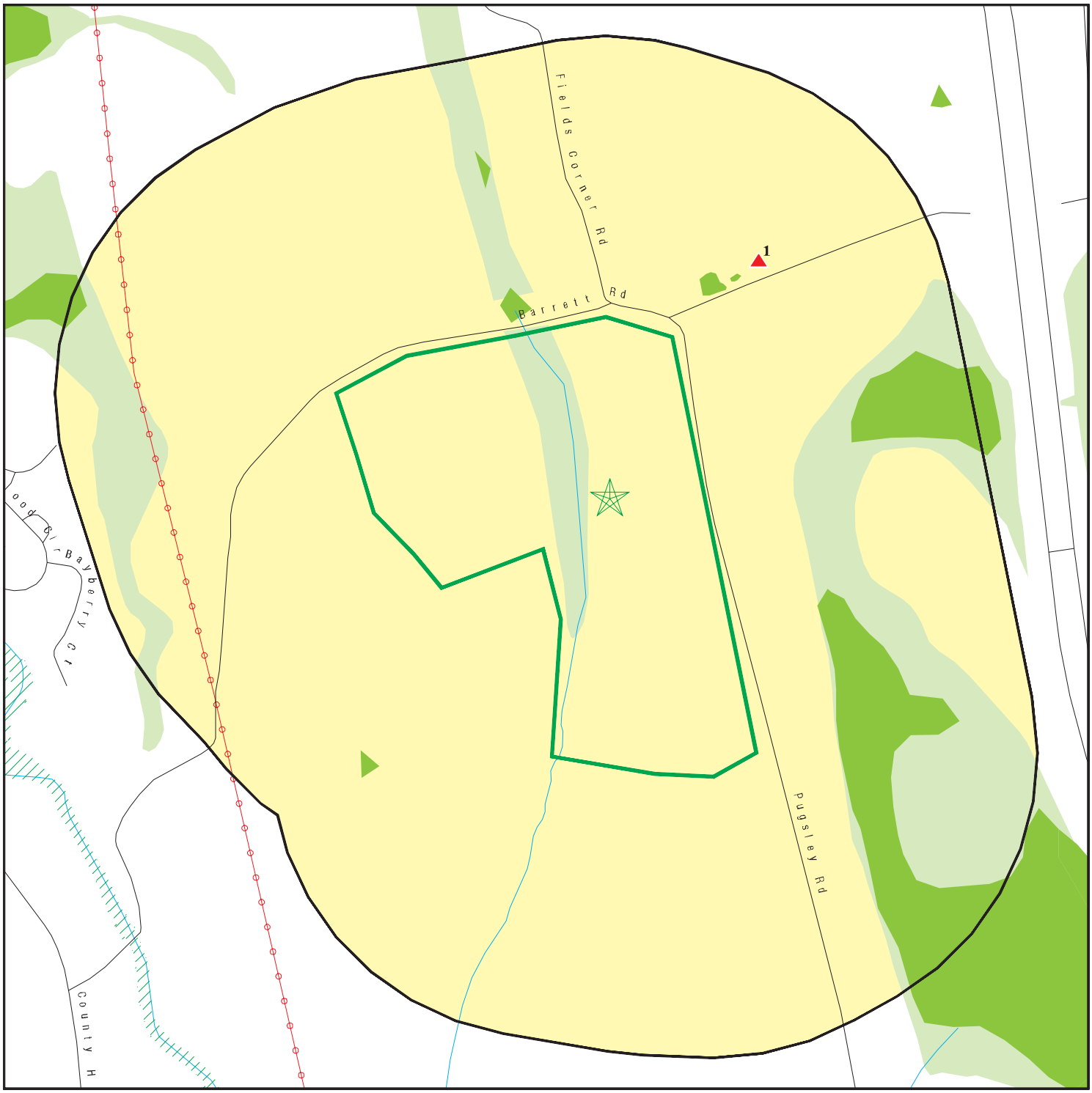
Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	18-Putnam Seabury-1A	CLIENT:	CA Rich Consultants, Inc.
ADDRESS:	68 Barrett Road Brewster NY 10509	CONTACT:	Jason Cooper
		INQUIRY #:	5227852.2s
LAT/LONG:	41.43229 / 73.638403	DATE:	March 20, 2018 4:19 pm

Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5227852.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 18-Putnam Seabury-1A	CLIENT: CA Rich Consultants, Inc.
ADDRESS: 68 Barrett Road Brewster NY 10509	CONTACT: Jason Cooper INQUIRY #: 5227852.2s
LAT/LONG: 41.43229 / 73.638403	DATE: March 20, 2018 4:20 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
INDIAN LUST	0.500		0	0	0	NR	NR	0
LTANKS	0.500		0	0	2	NR	NR	2
HIST LTANKS	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
CBS AST	0.250		0	0	NR	NR	NR	0
MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		1	0	NR	NR	NR	1
State and tribal institutional control / engineering control registries								
RES DECL	0.125		0	NR	NR	NR	NR	0
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	0	NR	NR	NR	0
HIST AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		0	NR	NR	NR	NR	0
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
SPILLS 90	0.125		0	NR	NR	NR	NR	0
SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
E DESIGNATION	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	0	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
VAPOR REOPENED	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		0	1	0	2	0	0	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NNE
< 1/8
0.103 mi.
543 ft.

TRANSPORTATION BLDG-NYSEG
ZIMMER RD. TERRAVEST CORP PARK
BREWSTER, NY 10509

TANKS **U003080391**
N/A

Relative:
Higher

Actual:
663 ft.

TANKS:

Facility Id:	3-489468
Region:	STATE
DEC Region:	3
Site Status:	Active
Program Type:	PBS
Expiration Date:	04/04/2021
UTM X:	615007.82032
UTM Y:	4587640.34302

2
ESE
1/4-1/2
0.428 mi.
2259 ft.

UNILOCK NEW YORK INC
51 INTERNATIONAL BLVD
BREWSTER, NY 10509

LTANKS **S108765399**
SPDES **N/A**

Relative:
Lower

Actual:
618 ft.

LTANKS:

Facility ID:	0704583
Site ID:	384762
Closed Date:	2007-07-24
Spill Number:	0704583
Spill Date:	2007-07-23
Spill Cause:	Tank Failure
Spill Source:	Commercial Vehicle
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	4030
Investigator:	dxweitz
Referred To:	Not reported
Reported to Dept:	2007-07-24
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2007-07-24
Spill Record Last Update:	2007-08-06
Spiller Name:	MITCH
Spiller Company:	ACE INDIGO
Spiller Address:	51 INTERNATIONAL BLVD
Spiller County:	001
Spiller Contact:	MITCH
Spiller Phone:	(845) 230-8807
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	334161
DEC Memo:	"Castleton Environmental calle din to do cleanup. Hole in saddle tank of truck. Clean up finished. Closed. NFA."
Remarks:	"THE CALLER SAYS THEY WERE FILLING A TRUCK LAST NIGHT AT ABOVE ADDRESS AND THE TRUCK HAD A HOLE IN IT AND IT LEAKED OUT CLEAN UP IN PROCESS"

UNILOCK NEW YORK INC (Continued) **S108765399**

All Materials:

Site ID:	384762
Operable Unit ID:	1142054
Operable Unit:	01
Material ID:	2132273
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Permit Number:	NYR00B605
State-Region:	03
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	3271
State Water Body Name:	LC 28
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+41.429 / -73.628
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY079
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	UNILOCK NEW YORK INC
Non-Gov Permit Street Address:	UNILOCK NEW YORK INC
Non-Gov Permit Supplemental Location:	51 INTERNATIONAL BLVD
Non-Gov Permit City:	BREWSTER
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10509
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNILOCK NEW YORK INC
Non-Gov Facility Street Address:	UNILOCK NEW YORK INC
Non-Gov Facility Supplemental Location:	51 INTERNATIONAL BLVD
Non-Gov Facility City:	BREWSTER
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10509
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY079
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	UNILOCK NEW YORK INC
Non-Gov Permit Street Address:	51 INTERNATIONAL BLVD

UNILOCK NEW YORK INC (Continued) **S108765399**

Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BREWSTER
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10509
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNILOCK NEW YORK INC
Non-Gov Facility Street Address:	UNILOCK NEW YORK INC
Non-Gov Facility Supplemental Location:	51 INTERNATIONAL BLVD
Non-Gov Facility City:	BREWSTER
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10509
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY079
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNILOCK NEW YORK INC
Non-Gov Facility Street Address:	UNILOCK NEW YORK INC
Non-Gov Facility Supplemental Location:	51 INTERNATIONAL BLVD
Non-Gov Facility City:	BREWSTER
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10509
State Water Body:	Not reported

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3 **RAICHLE MOLITOR** **LTANKS** **S103823989**
ESE **GENEVA ROAD** **N/A**
1/4-1/2 **BREWSTER, NY**
0.497 mi.
2624 ft.

Relative: **Higher**

Actual: **648 ft.**

LTANKS:

Facility ID:	9812643
Site ID:	93618
Closed Date:	1999-03-18
Spill Number:	9812643
Spill Date:	1998-07-28
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	4000
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	1999-01-13
CID:	204
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True

RAICHLE MOLITOR (Continued) **S103823989**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1999-01-13
Spill Record Last Update:	2004-08-11
Spiller Name:	LINDA BENICASA
Spiller Company:	RAICHLE MOLITOR
Spiller Address:	GENEVA ROAD
Spiller County:	001
Spiller Contact:	LINDA BENICASA
Spiller Phone:	(914) 793-1009
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	83919
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MCCABE SEE 3-PAGE UPDATE BY V. MCCABE 03/18/99 LETER SENT; NFA This spill was updated 08/11/2004 from info in V. McCabe's data files. 'Date:' = 01/13/99, 'Phone' = 1/20/1999, 'Site Insp' = 2/17/1999. "
Remarks:	"OLD TANK"

All Materials:

Site ID:	93618
Operable Unit ID:	1073136
Operable Unit:	01
Material ID:	312919
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BREWSTER	S113917087	METRO NORTH (CONRAIL-HARLEM DIV.)	PROSPECT HILL ROAD	10509	SHWS
CARMEL	S113916604	FAIR STREET SITE	FAIR STREET	10512	SHWS
SOUTHEAST	S105972520	BREWSTER TRANSIT MIX	FIELDS LANE	10509	SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/05/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System 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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 06/13/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 94

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/09/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

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

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

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.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 31

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 02/12/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/16/2018
Number of Days to Update: 30
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 134

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 06/27/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 03/19/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

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.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Semi-Annually

VCP NYC: Voluntary Cleanup Program Listing NYC

New York City voluntary cleanup program sites.

Date of Government Version: 10/04/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 38

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 03/15/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/20/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

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.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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.

Date of Government Version: 01/19/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 12/12/2017
Date Data Arrived at EDR: 12/14/2017
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/02/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/19/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 16

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

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.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 16

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 11/06/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 6
Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 02/05/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 02/12/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/16/2018
Number of Days to Update: 30
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/16/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/11/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/09/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/09/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/06/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/26/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/04/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 63

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/19/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 10/29/2017
Date Data Arrived at EDR: 11/28/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 45

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 24

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 9

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/13/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/27/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/20/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 53

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 11/06/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/12/2017
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 11/22/2017
Date Data Arrived at EDR: 12/14/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 46

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 12/20/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 40

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 03/19/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 12/01/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/12/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 184

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/31/2018
Date Made Active in Reports: 03/09/2018
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 10/25/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/28/2017
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 03/14/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 127

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/03/2017
Date Data Arrived at EDR: 12/06/2017
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 56

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 03/08/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 9

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 9

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34
Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/01/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/01/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 10/19/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 8
Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Semi-Annually

Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 10/19/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 8

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/05/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/16/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 01/12/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 02/13/2018
Number of Days to Update: 25

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/12/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/08/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

18-PUTNAM SEABURY-1A
68 BARRETT ROAD
BREWSTER, NY 10509

TARGET PROPERTY COORDINATES

Latitude (North):	41.43229 - 41° 25' 56.24''
Longitude (West):	73.638403 - 73° 38' 18.25''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	613765.4
UTM Y (Meters):	4587429.0
Elevation:	646 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5939751 LAKE CARMEL, NY
Version Date:	2013
East Map:	5939739 BREWSTER, NY
Version Date:	2013

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 principal 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).

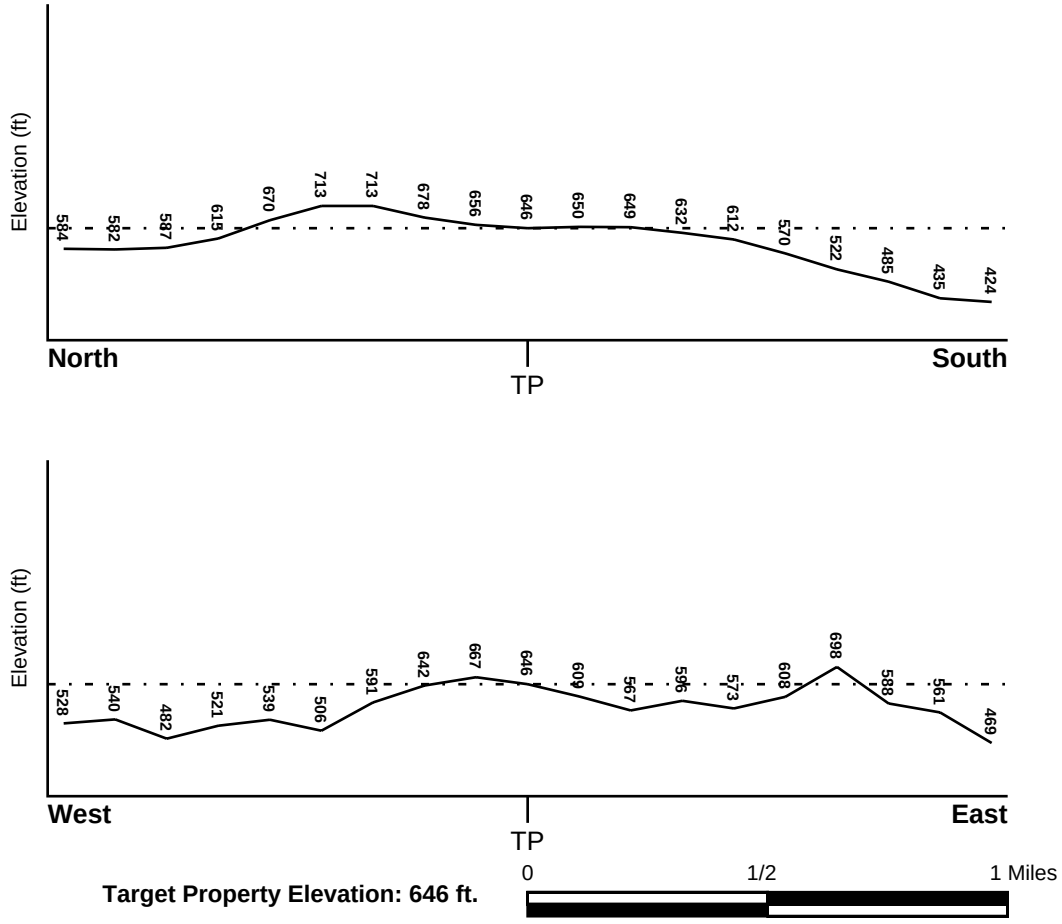
TOPOGRAPHIC INFORMATION

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 SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 646 ft.

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
36079C0142E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
36079C0133E	FEMA FIRM Flood data
36079C0134E	FEMA FIRM Flood data
36079C0153E	FEMA FIRM Flood data
36079C0141E	FEMA FIRM Flood data
36079C0161E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LAKE CARMEL	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

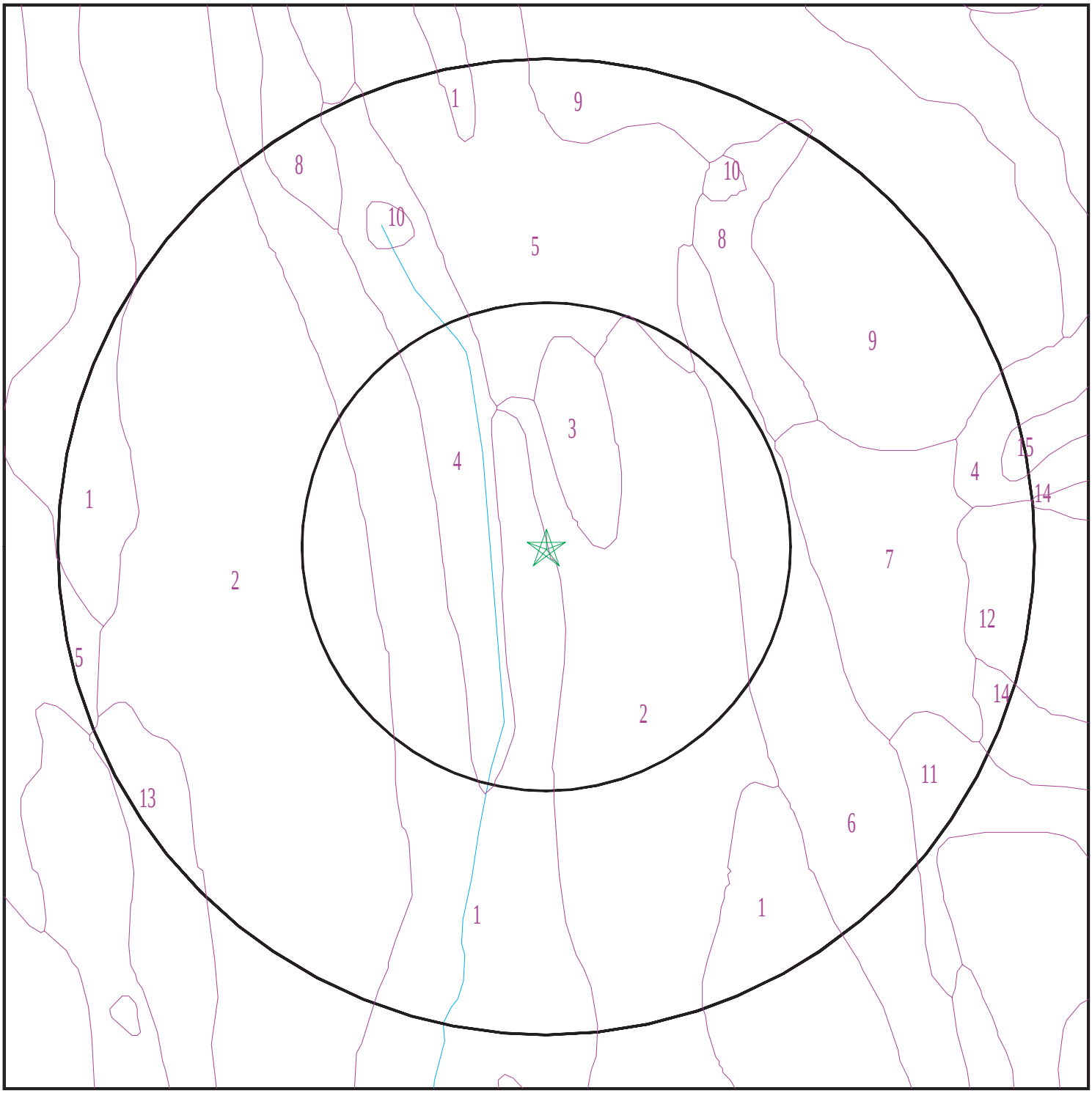
Era:	Precambrian
System:	Precambrian
Series:	Paragneiss and schist
Code:	Ym *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

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 - 5227852.2s



★ Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	18-Putnam Seabury-1A	CLIENT:	CA Rich Consultants, Inc.
ADDRESS:	68 Barrett Road Brewster NY 10509	CONTACT:	Jason Cooper
		INQUIRY #:	5227852.2s
LAT/LONG:	41.43229 / 73.638403	DATE:	March 20, 2018 4:20 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	20 inches	59 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 2

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	20 inches	59 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 3

Soil Component Name: Woodbridge

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	11 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Sun

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	9 inches	27 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6
3	27 inches	59 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

Soil Map ID: 5

Soil Component Name: Woodbridge

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	11 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Woodbridge

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	11 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 7

Soil Component Name: Ridgebury

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 6.5 Min: 4.5
2	7 inches	25 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6.5 Min: 4.5
3	25 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5

Soil Map ID: 8

Soil Component Name: Ridgebury

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 6.5 Min: 4.5
2	7 inches	25 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6.5 Min: 4.5
3	25 inches	59 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5

Soil Map ID: 9

Soil Component Name: Charlton

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 77 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	7 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	24 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 10

Soil Component Name: Water

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 11

Soil Component Name: Sun

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	9 inches	27 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6
3	27 inches	59 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

Soil Map ID: 12

Soil Component Name: Chatfield

Soil Surface Texture: loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	7 inches	24 inches	flaggy silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	24 inches	27 inches	unweathered bedrock	Not reported	Not reported	Max: 141 Min: 0.07	Max: Min:

Soil Map ID: 13

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	9 inches	20 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	20 inches	59 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 14

Soil Component Name: Sutton

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	9 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	27 inches	59 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 15

Soil Component Name: Palms

Soil Surface Texture: muck

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	muck	A-8	Highly organic soils, Peat.	Max: 42 Min: 1.4	Max: Min:
2	9 inches	48 inches	muck	A-8	Highly organic soils, Peat.	Max: 42 Min: 1.4	Max: Min:
3	48 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 1.4	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000843604	1/8 - 1/4 Mile NNW
2	USGS40000843634	1/4 - 1/2 Mile North
3	USGS40000843497	1/2 - 1 Mile SSE
6	USGS40000843509	1/2 - 1 Mile SW
A9	USGS40000843516	1/2 - 1 Mile ESE
10	USGS40000843607	1/2 - 1 Mile WNW
11	USGS40000843527	1/2 - 1 Mile ESE
A12	USGS40000843513	1/2 - 1 Mile ESE
13	USGS40000843625	1/2 - 1 Mile WNW
15	USGS40000843464	1/2 - 1 Mile SSE
17	USGS40000843483	1/2 - 1 Mile SW
18	USGS40000843564	1/2 - 1 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

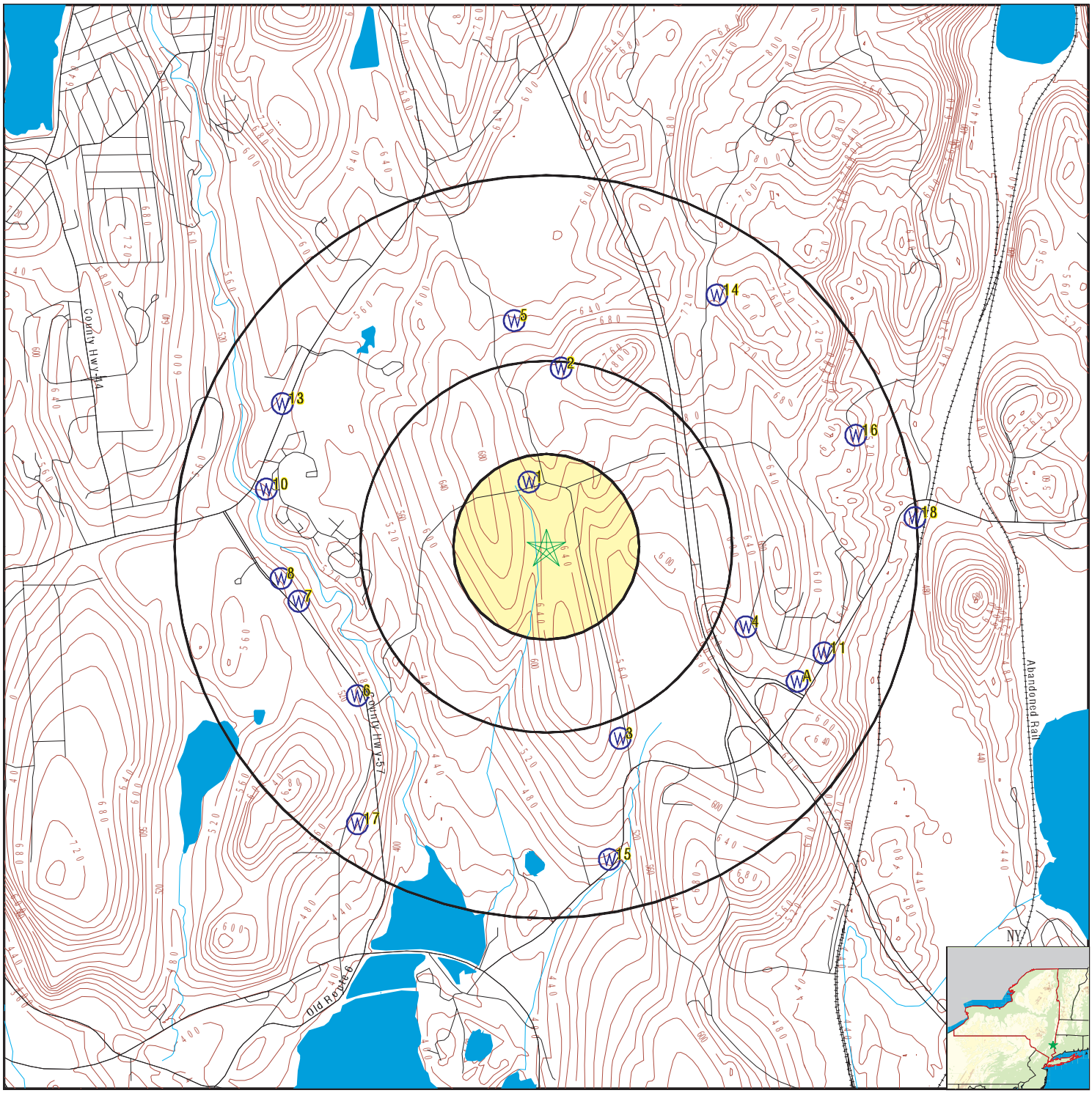
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	NYWS004793	1/2 - 1 Mile ESE
5	NYWS10000010925	1/2 - 1 Mile North
7	NYWS10000011067	1/2 - 1 Mile WSW
8	NYWS10000011068	1/2 - 1 Mile West
14	NYWS10000010916	1/2 - 1 Mile NE
16	NYWS10000011057	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 5227852.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	18-Putnam Seabury-1A	CLIENT:	CA Rich Consultants, Inc.
ADDRESS:	68 Barrett Road Brewster NY 10509	CONTACT:	Jason Cooper
		INQUIRY #:	5227852.2s
LAT/LONG:	41.43229 / 73.638403	DATE:	March 20, 2018 4:20 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000843604**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412606073382701		
Monloc name:	P 499		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4348161
Longitude:	-73.639295	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	650.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Precambrian Erathem		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	156
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000843634**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412621073381701		
Monloc name:	P1181		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4392605
Longitude:	-73.6376283	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

3
SSE **FED USGS** **USGS40000843497**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412529073380601		
Monloc name:	P 354		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4248162
Longitude:	-73.6345727	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	555
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	197
Welldepth units:	ft	Wellholedepth:	197
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

4
ESE **NY WELLS** **NYWS004793**
1/2 - 1 Mile
Lower

Well Id:	NY3922704	System name:	UNILOCK
System Id:	001	Well name:	DRILLED WELL
Type:	Well	Active?:	Active
County:	PUTNAM COUNTY	Latitude:	412545 000
Longitude:	733741 000	Slec_type_:	AC
Agency:	KERR, JOSEPH		
Address:	INTERNATIONAL BLVD		
City/State/Zip:	BREWSTER NY 10509		
Phone:	845-278-6700		

5
North **NY WELLS** **NYWS10000010925**
1/2 - 1 Mile
Lower

Fid:	10925
County:	PUTNAM
Town:	Patterson
Dec well n:	P1903
Foil loc:	N/A
Latitude:	41 26 28.0
Longitude:	73 38 24.2
Well depth:	165
Rock depth:	31
Gw depth:	16
Cased dept:	40
Scr:	N
Yt avgdisc:	35
Regnumber:	NYRD10194
Ddlat:	41.441111
Ddlong:	-73.640056
Site id:	NYWS10000010925

6
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000843509**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412535073385501		
Monloc name:	P 498		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4264828
Longitude:	-73.6481842	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	500
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	32
Welldepth units:	ft	Wellholedepth:	32
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

7
WSW
1/2 - 1 Mile
Lower

NY WELLS **NYWS10000011067**

Fid:	11067
County:	PUTNAM
Town:	Southeast
Dec well n:	P1642
Foil loc:	SIMPSON RD
Latitude:	41 25 48.6
Longitude:	73 39 04.4
Well depth:	305
Rock depth:	90
Gw depth:	10
Cased dept:	121
Scr:	N
Yt avgdisc:	5
Regnumber:	NYRD10105
Ddlat:	41.430167
Ddlong:	-73.651222
Site id:	NYWS10000011067

8
West **NY WELLS** **NYWS10000011068**
1/2 - 1 Mile
Lower

Fid:	11068
County:	PUTNAM
Town:	Southeast
Dec well n:	P1643
Foil loc:	SIMPSON RD
Latitude:	41 25 51.8
Longitude:	73 39 07.7
Well depth:	205
Rock depth:	90
Gw depth:	60
Cased dept:	111
Scr:	N
Yt avgdisc:	7
Regnumber:	NYRD10105
Ddlat:	41.431056
Ddlong:	-73.652139
Site id:	NYWS10000011068

A9
ESE **FED USGS** **USGS40000843516**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412538073373501		
Monloc name:	P 159		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4273162
Longitude:	-73.6259613	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	580
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	8.5
Welldepth units:	ft	Wellholedepth:	8.5
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

10
WNW **FED USGS** **USGS40000843607**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412607073391301		
Monloc name:	P 158		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4345383
Longitude:	-73.6529066	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	520.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Glacial Delta Deposits		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	15
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
ESE **FED USGS** **USGS40000843527**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412541073372801		
Monloc name:	P 161		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4281495
Longitude:	-73.6240168	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	580
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	8.5
Welldepth units:	ft	Wellholedepth:	8.5
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A12
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40000843513**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412536073373101		
Monloc name:	P 160		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4267606
Longitude:	-73.6248501	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	600
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	32
Welldepth units:	ft	Wellholedepth:	32
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000843625**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412616073390901		
Monloc name:	P 157		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4378716
Longitude:	-73.6520732	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	545
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	25
Welldepth units:	ft	Wellholedepth:	25
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

14
NE **NY WELLS** **NYWS10000010916**
1/2 - 1 Mile
Higher

Fid:	10916
County:	PUTNAM
Town:	Patterson
Dec well n:	P1595
Foil loc:	TAMMANY HALL RD
Latitude:	41 26 31.6
Longitude:	73 37 46.4
Well depth:	405
Rock depth:	10
Gw depth:	Not Reported
Cased dept:	21
Scr:	N
Yt avgdisc:	30
Regnumber:	NYRD01695
Ddlat:	41.442111
Ddlong:	-73.629556
Site id:	NYWS10000010916

15
SSE **FED USGS** **USGS40000843464**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412516073381401		
Monloc name:	P 162		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.420094
Longitude:	-73.6351283	Sourcemap scale:	Not Reported

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	500.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Precambrian Erathem		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	170
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

16
ENE **NY WELLS** **NYWS10000011057**
1/2 - 1 Mile
Lower

Fid:	11057
County:	PUTNAM
Town:	Southeast
Dec well n:	P1553
Foil loc:	COFFEY LN
Latitude:	41 26 11.9
Longitude:	73 37 20.5
Well depth:	225
Rock depth:	6
Gw depth:	Not Reported
Cased dept:	21
Scr:	N
Yt avgdisc:	30
Regnumber:	NYRD01695
Ddlat:	41.436639
Ddlong:	-73.622361
Site id:	NYWS10000011057

17
SW **FED USGS** **USGS40000843483**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412523073385601		
Monloc name:	P 355		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4214828
Longitude:	-73.6481842	Sourcemap scale:	Not Reported

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	480.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Precambrian Erathem		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	147
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

18
East
1/2 - 1 Mile
Lower

FED USGS **USGS40000843564**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-412556073371601		
Monloc name:	P 197		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.4334273
Longitude:	-73.6192944	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	450.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Precambrian Erathem		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	139
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
PUTNAM	CARMEL	357	4.37	2.43	235.2
PUTNAM	KENT	85	5.61	3.45	40.6
PUTNAM	PATTERSON	77	3.13	1.93	39.2
PUTNAM	PHILIPSTOWN	128	7.28	4	74.6
PUTNAM	PUTNAM VALLEY	145	5.54	3.5	34.2
PUTNAM	SOUTHEAST	148	3.26	1.77	43.7

Federal EPA Radon Zone for PUTNAM County: 1

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 PUTNAM COUNTY, NY

Number of sites tested: 277

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.430 pCi/L	89%	11%	0%
Basement	2.330 pCi/L	71%	27%	1%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

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).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX C

HISTORICAL INFORMATION

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509

Inquiry Number: 5227852.3
March 20, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/20/18

Site Name:

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509
EDR Inquiry # 5227852.3

Client Name:

CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803
Contact: Jason Cooper

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by CA Rich Consultants, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # ACA4-4F4D-A19B

PO # 18-p

Project 18-Putnam Seabury-1A

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: ACA4-4F4D-A19B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509

Inquiry Number: 5227852.5
March 22, 2018

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by
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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☐	☐	EDR Digital Archive
1992	☐	☐	EDR Digital Archive
1988	☐	☐	Cole Criss-Cross Directory
1983	☐	☐	Cole Criss-Cross Directory
1978	☐	☐	Cole Criss-Cross Directory
1973	☐	☐	Cole Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

68 Barrett Road
Brewster, NY 10509

Year	*CD Image*	*Source*	
BARRETT RD			
2014	pg A1	EDR Digital Archive	
2010	pg A2	EDR Digital Archive	
2005	pg A3	EDR Digital Archive	
2000	pg A4	EDR Digital Archive	
1995	-	EDR Digital Archive	Street not listed in Source
1992	-	EDR Digital Archive	Street not listed in Source
1988	-	Cole Criss-Cross Directory	Street not listed in Source
1983	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1978	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1973	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BARRETT RD 2014

63 OCCUPANT UNKNOWN,
159 WALKER, L
201 OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BARRETT RD 2010

7	MARTIN, DANIEL
63	OCCUPANT UNKNOWN,
159	WALKER, L
201	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BARRETT RD 2005

63	BROWN, FRANK R
201	CARLO, RAYMOND M

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BARRETT RD 2000

201 CARLO, RAYMOND M

18-Putnam Seabury-1A

68 Barrett Road

Brewster, NY 10509

Inquiry Number: 5227852.9

March 21, 2018

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

03/21/18

Site Name:

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509
EDR Inquiry # 5227852.9

Client Name:

CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803
Contact: Jason Cooper

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1997	1"=500'	Flight Date: March 27, 1997	USGS
1994	1"=500'	Acquisition Date: April 20, 1994	USGS/DOQQ
1992	1"=500'	Flight Date: April 13, 1992	USGS
1984	1"=500'	Flight Date: March 26, 1984	USGS
1981	1"=500'	Flight Date: April 07, 1981	USGS
1974	1"=500'	Flight Date: February 24, 1974	USGS
1958	1"=500'	Flight Date: August 05, 1958	USGS
1941	1"=500'	Flight Date: October 20, 1941	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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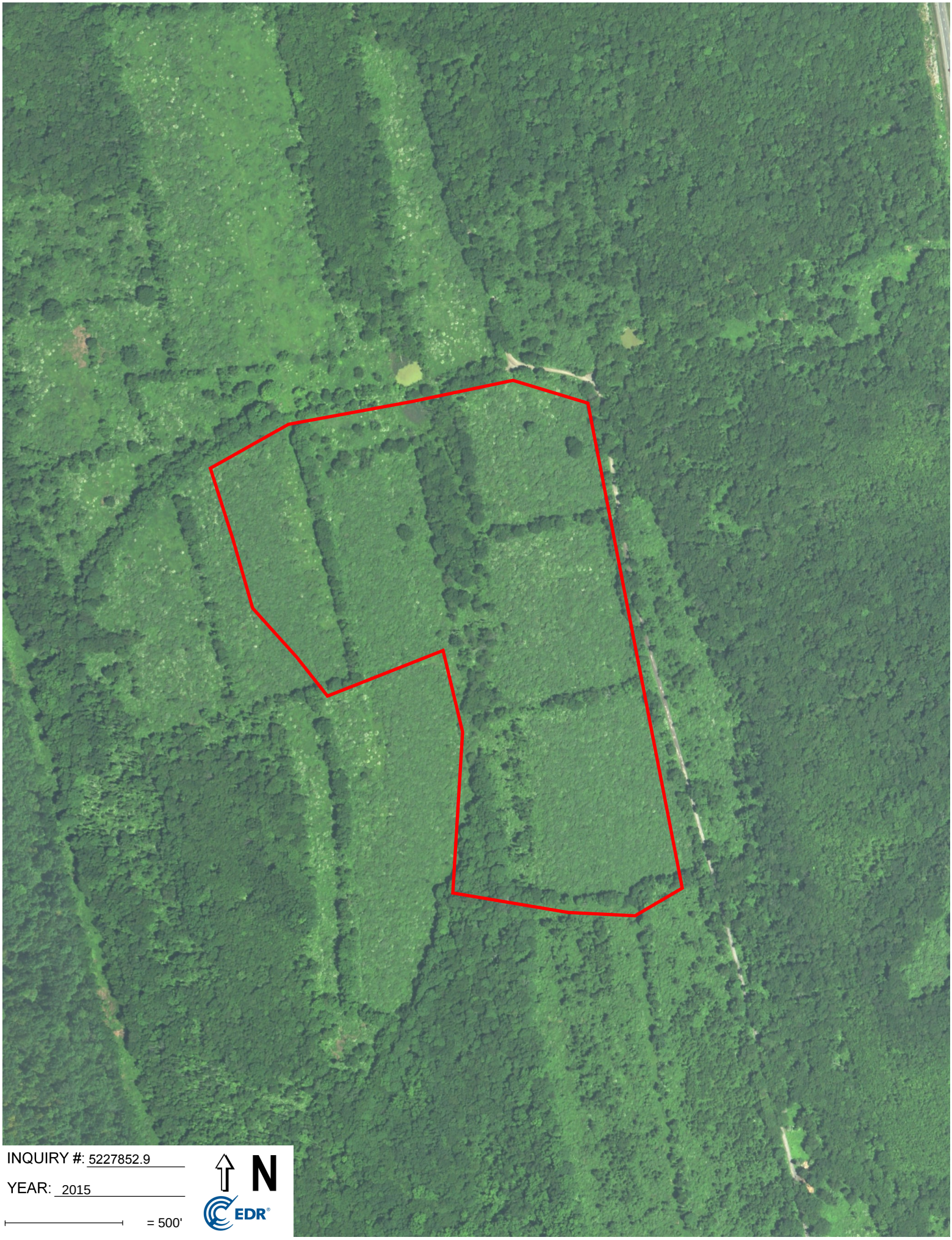
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YEAR: 2015
= 500'
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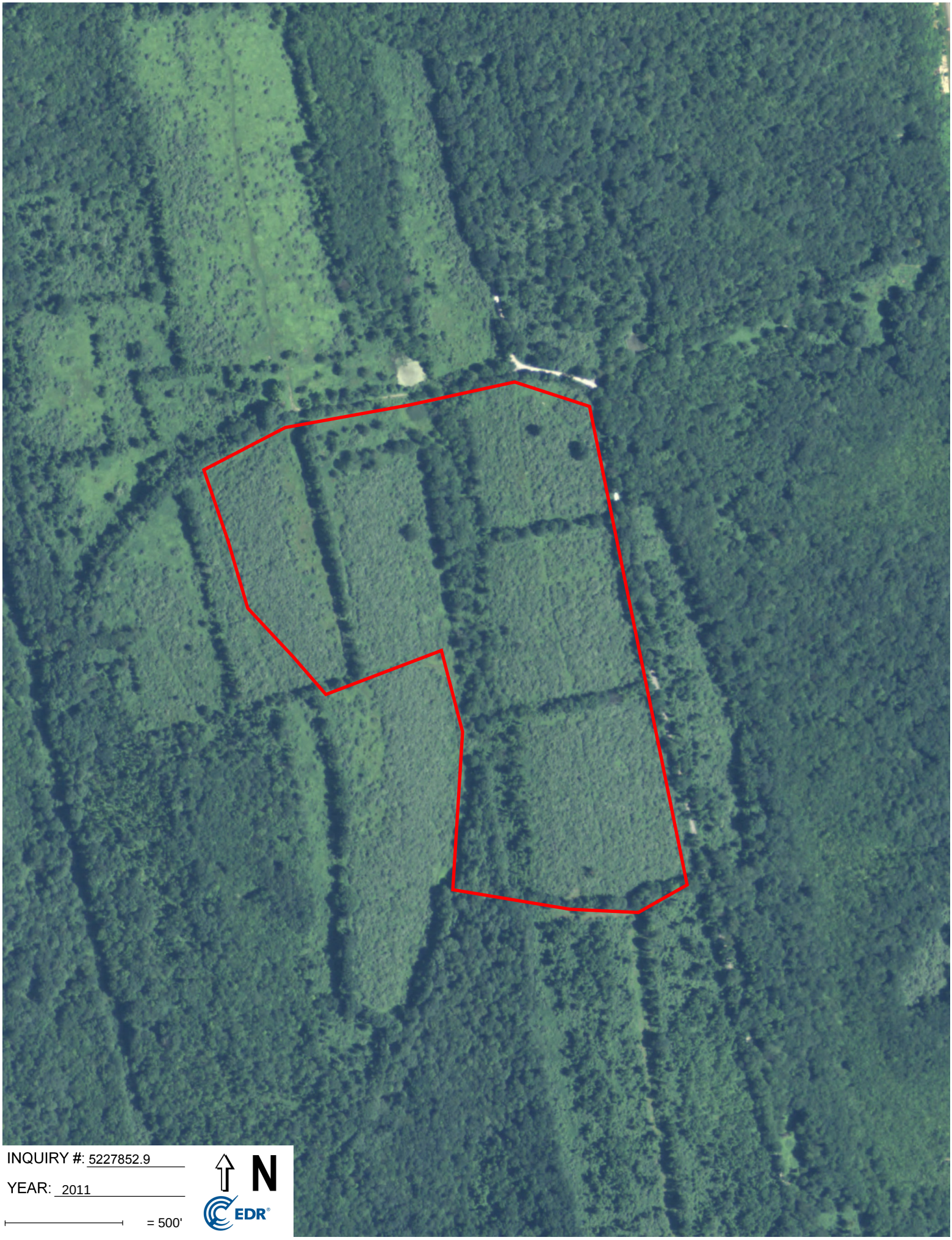
EDR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YEAR: 2011
= 500'
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EDR

INQUIRY #: 5227852.9

YEAR: 2008

= 500'

N

EDR

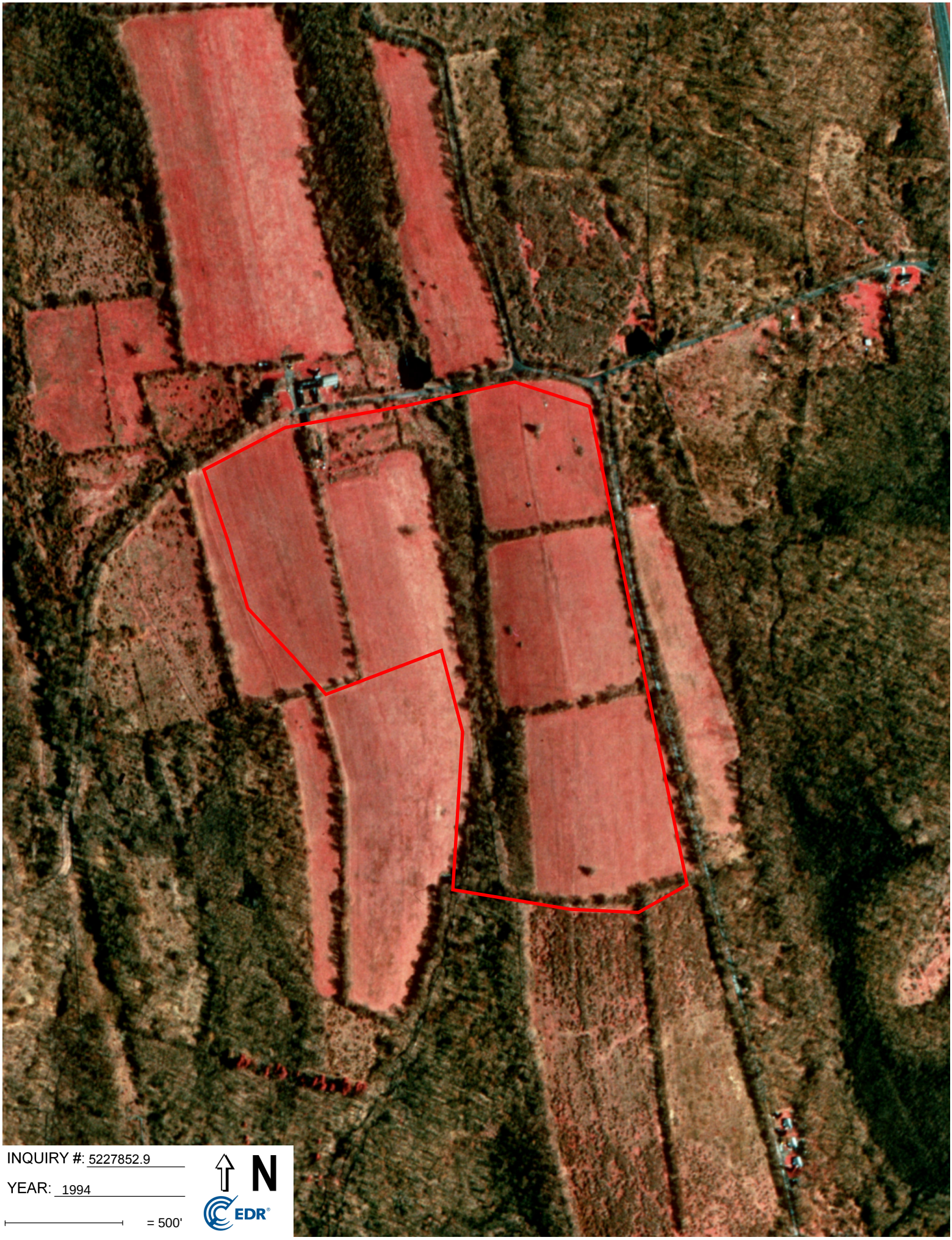
INQUIRY #: 5227852.9

YEAR: 1997

= 500'

N

EDR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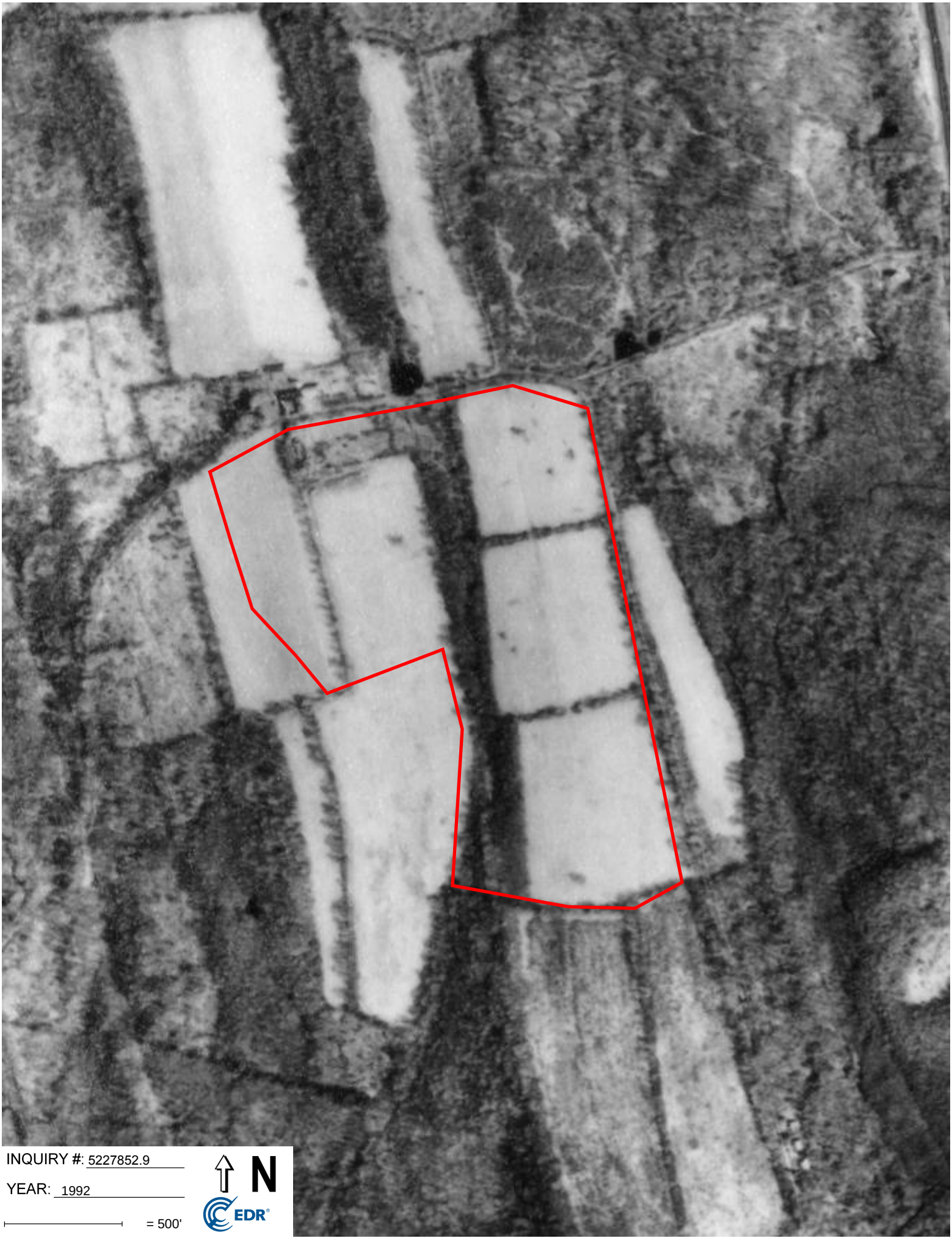
EDR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YEAR: 1992
= 500'
N
EDR

INQUIRY #: 5227852.9

YEAR: 1984

= 500'

N

EDR

INQUIRY #: 5227852.9

YEAR: 1981

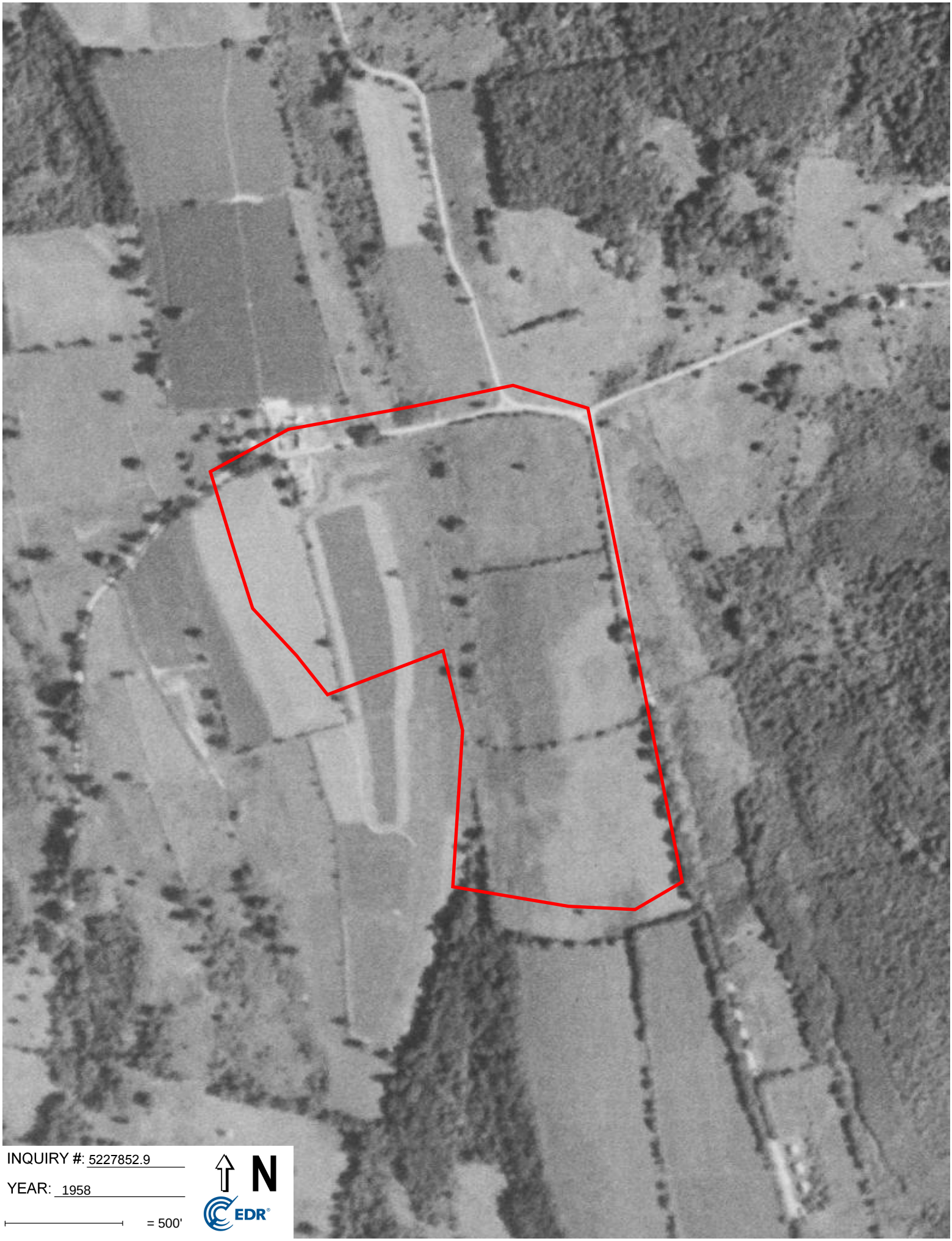
= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 5227852.9
YEAR: 1974
= 500'
N
EDR


INQUIRY #: 5227852.9
YEAR: 1958
= 500'
N
EDR

INQUIRY #: 5227852.9

YEAR: 1941

= 500'

N

EDR

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509

Inquiry Number: 5227852.4
March 20, 2018

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

03/20/18

Site Name:

18-Putnam Seabury-1A
68 Barrett Road
Brewster, NY 10509
EDR Inquiry # 5227852.4

Client Name:

CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803
Contact: Jason Cooper

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by CA Rich Consultants, Inc. 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.# 18-p
Project: 18-Putnam Seabury-1A

Coordinates:

Latitude:	41.43229 41° 25' 56" North
Longitude:	-73.638403 -73° 38' 18" West
UTM Zone:	Zone 18 North
UTM X Meters:	613762.30
UTM Y Meters:	4587641.74
Elevation:	644.43' above sea level

Maps Provided:

2013
1981, 1984
1958, 1960
1943
1928
1894
1893
1892

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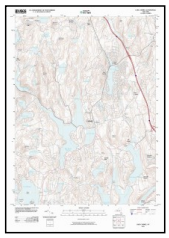
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

Brewster
2013
7.5-minute, 24000



Lake Carmel
2013
7.5-minute, 24000

1981, 1984 Source Sheets

Lake Carmel
1981
7.5-minute, 24000
Aerial Photo Revised 1941

Brewster
1984
7.5-minute, 24000
Aerial Photo Revised 1982

1958, 1960 Source Sheets

Brewster
1958
7.5-minute, 24000
Aerial Photo Revised 1941

Lake Carmel
1960
7.5-minute, 24000
Aerial Photo Revised 1941

1943 Source Sheets

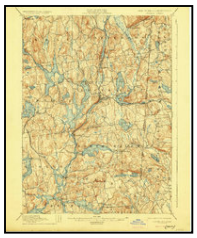
Brewster
1943
7.5-minute, 24000

Lake Carmel
1943
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1928 Source Sheets

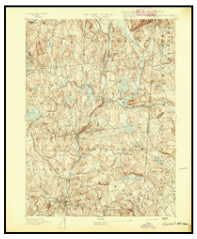


Carmel
1928
15-minute, 62500

1894 Source Sheets

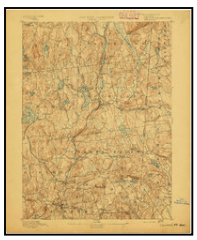
Carmel
1894
15-minute, 62500

1893 Source Sheets



Carmel
1893
15-minute, 62500

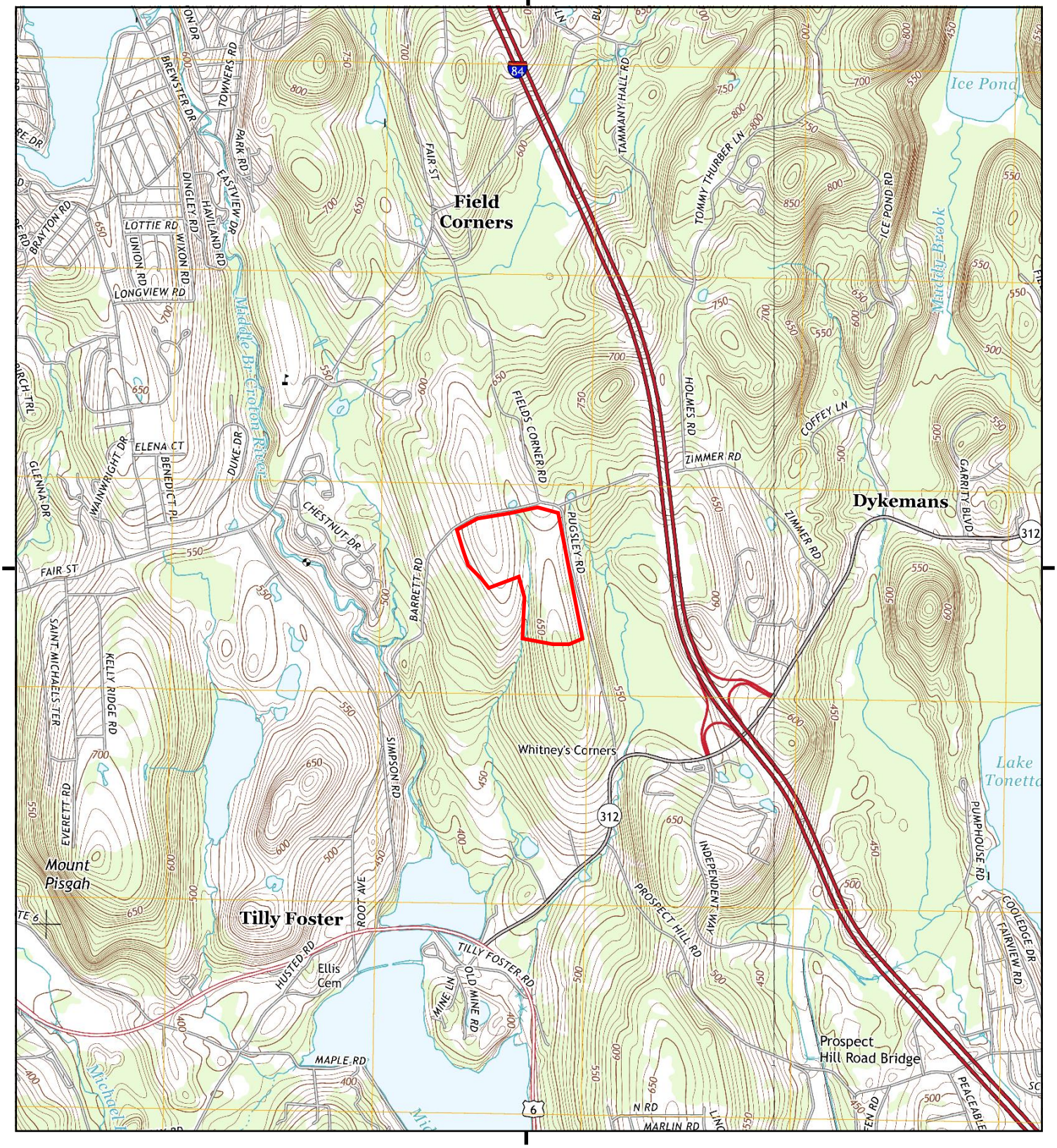
1892 Source Sheets



Carmel
1892
15-minute, 62500

Historical Topo Map

2013



This report includes information from the following map sheet(s).

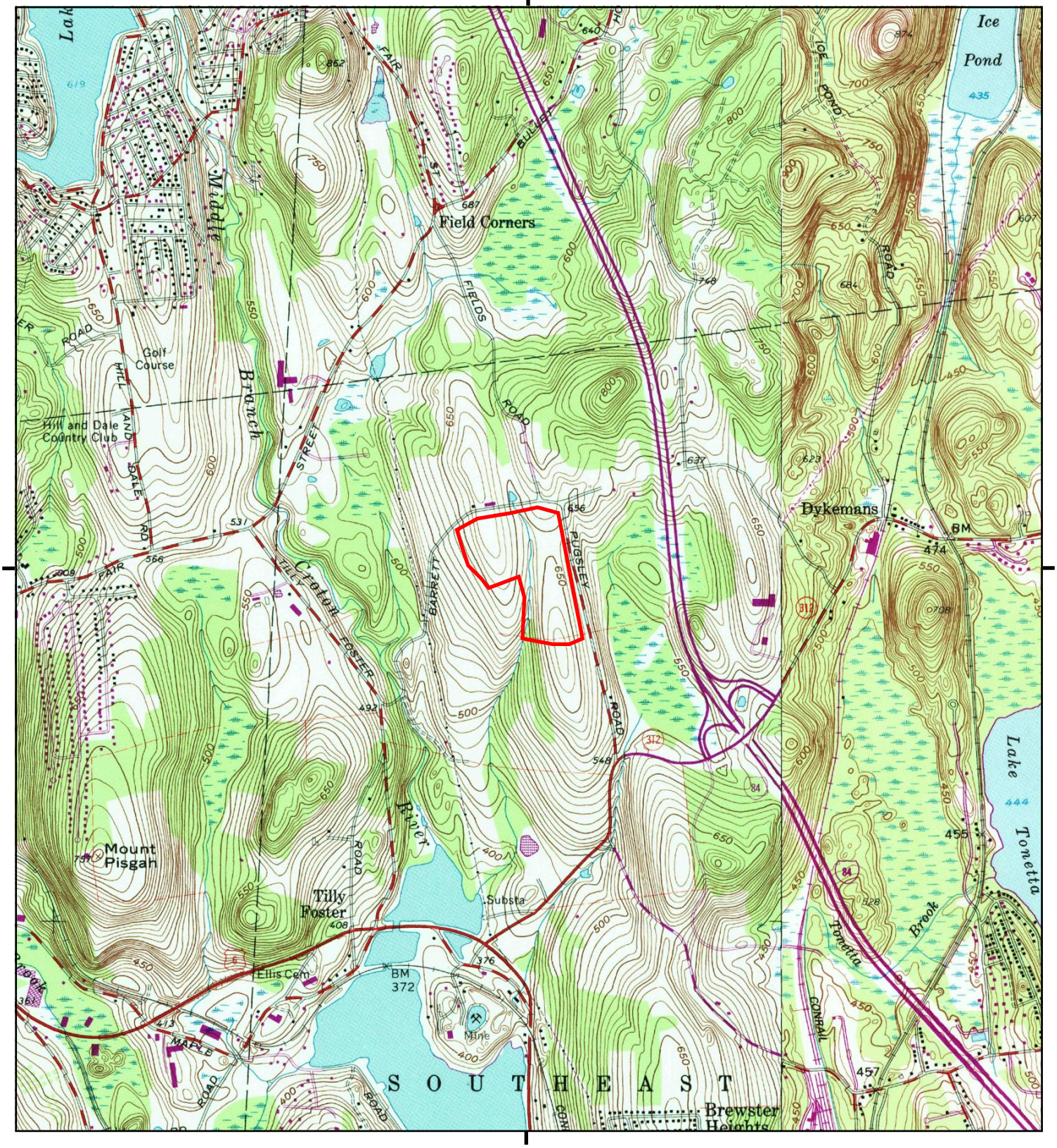
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lake Carmel, 2013, 7.5-minute
E, Brewster, 2013, 7.5-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N



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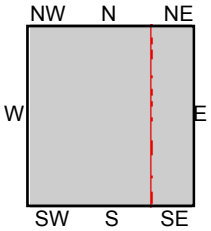
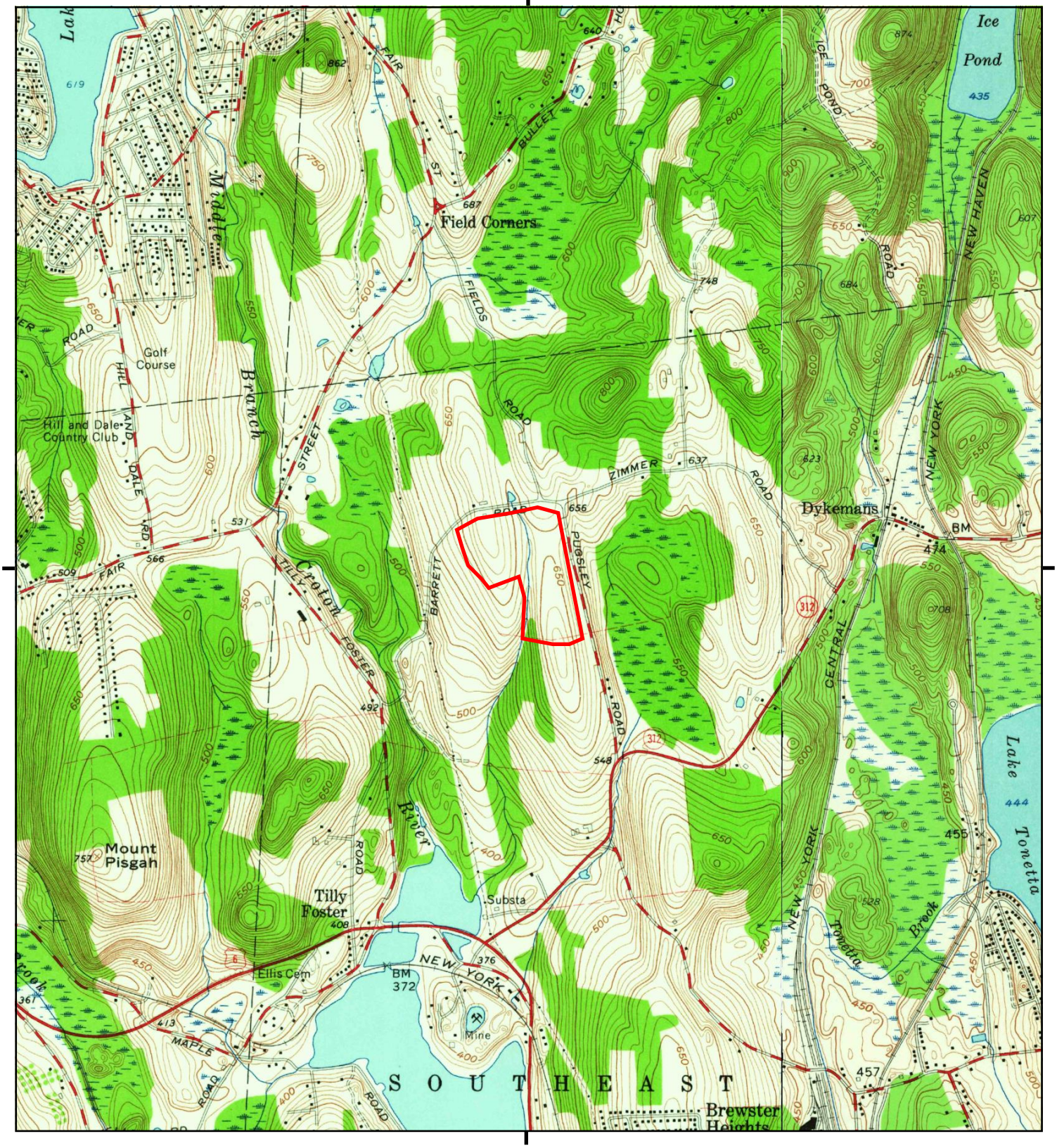


TP, Lake Carmel, 1981, 7.5-minute
E, Brewster, 1984, 7.5-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N



This report includes information from the following map sheet(s).

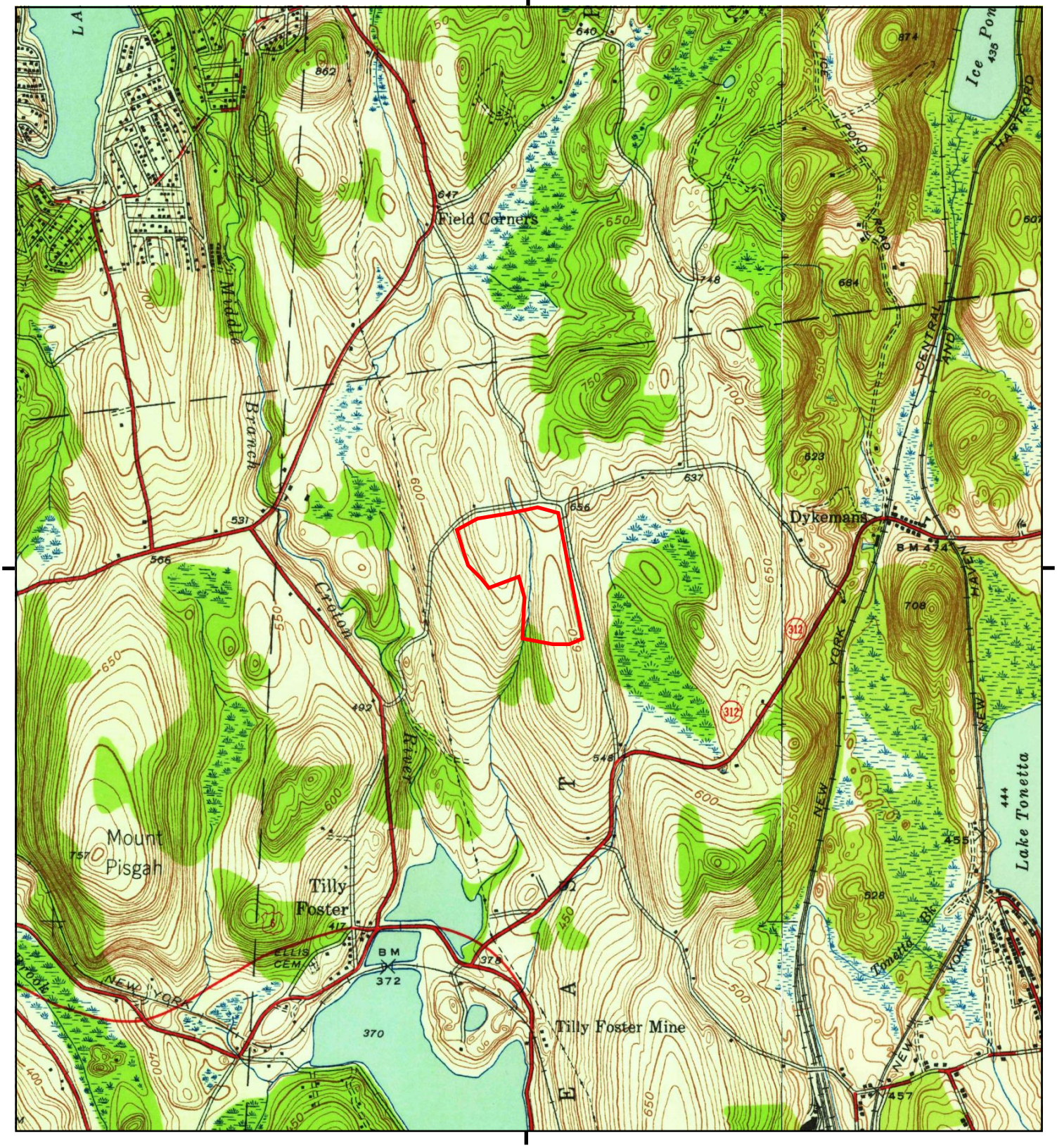
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lake Carmel, 1960, 7.5-minute
E, Brewster, 1958, 7.5-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N



This report includes information from the following map sheet(s).

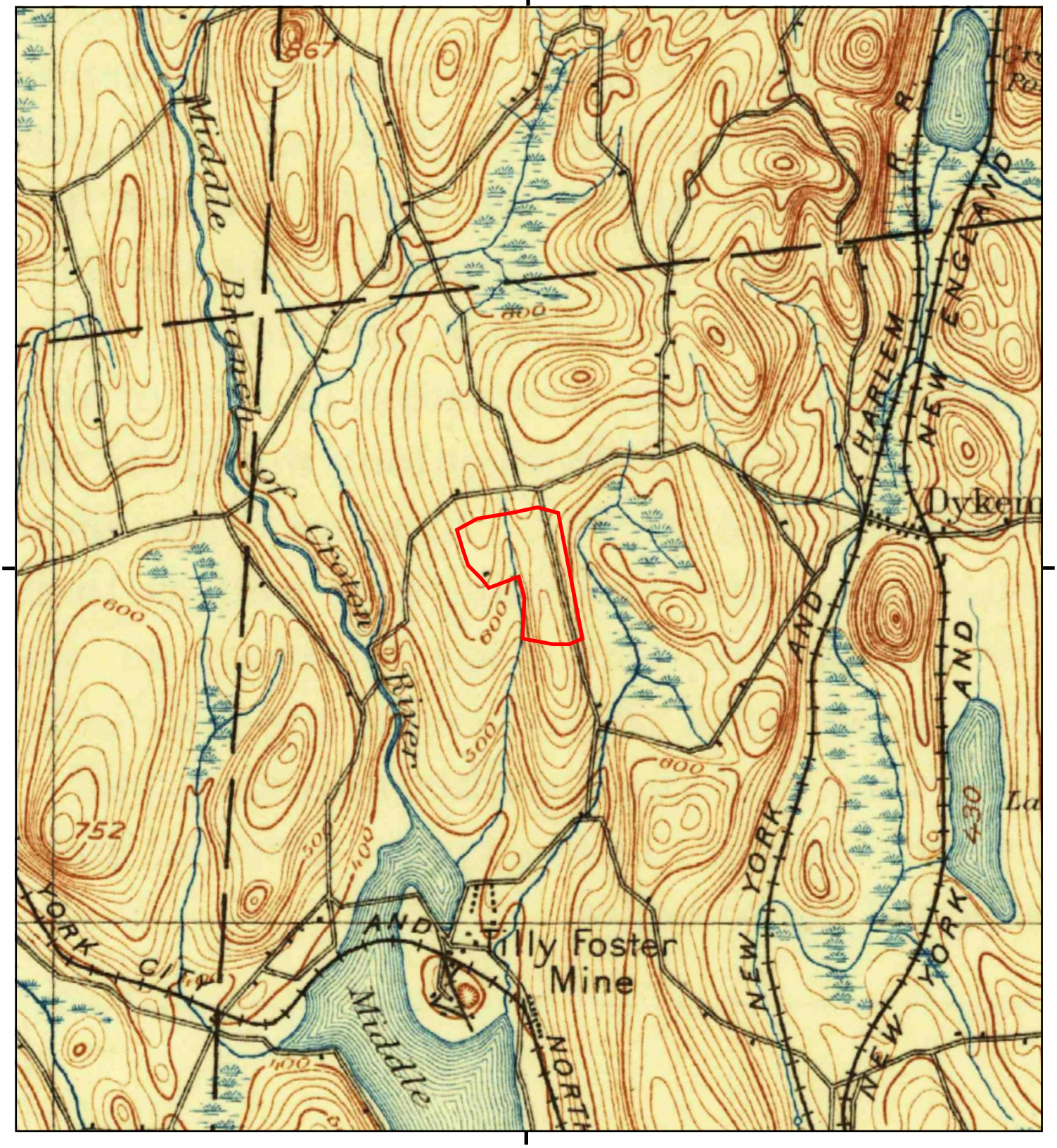
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lake Carmel, 1943, 7.5-minute
E, Brewster, 1943, 7.5-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carmel, 1928, 15-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N

This report includes information from the following map sheet(s).

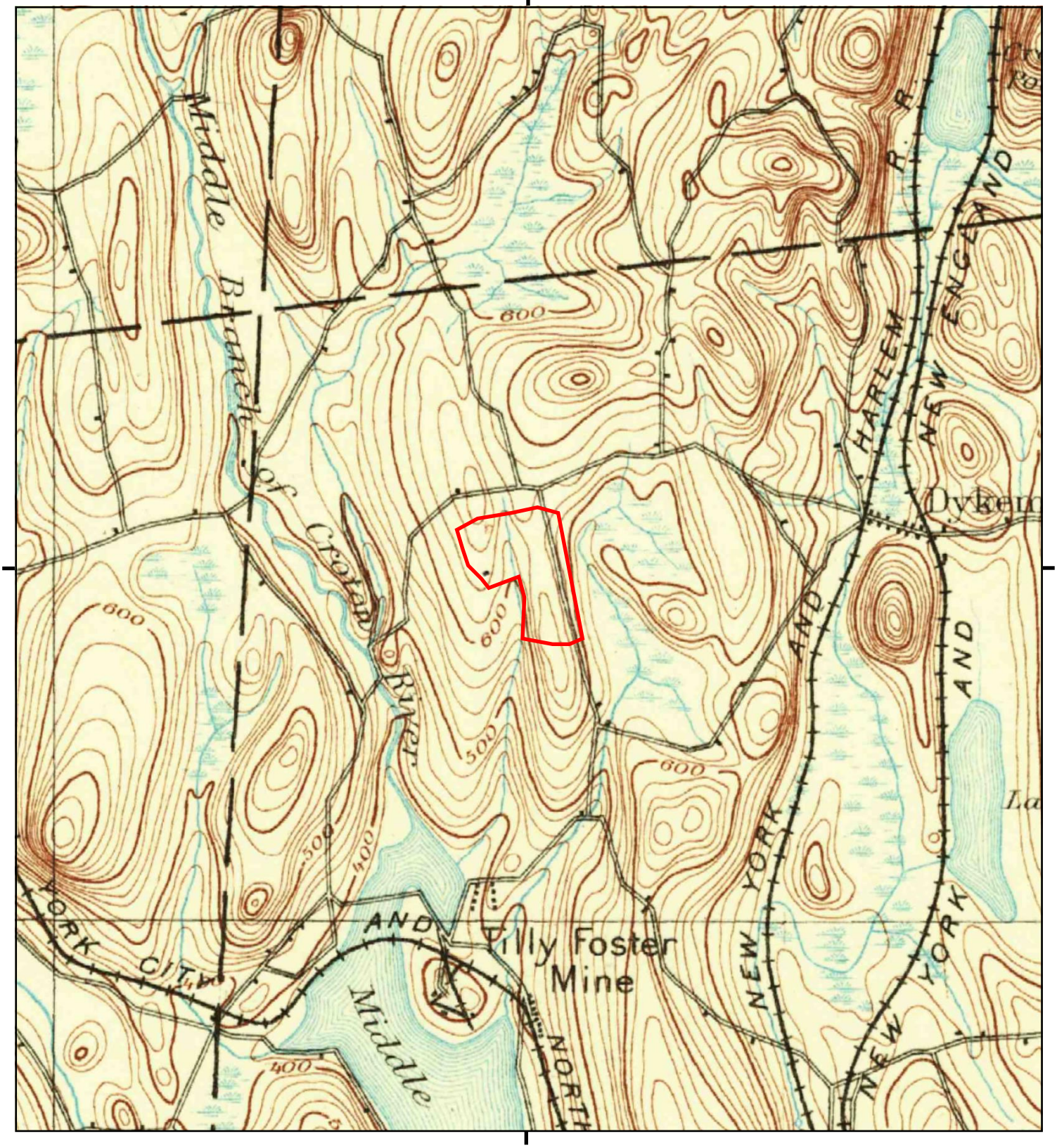
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carmel, 1894, 15-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

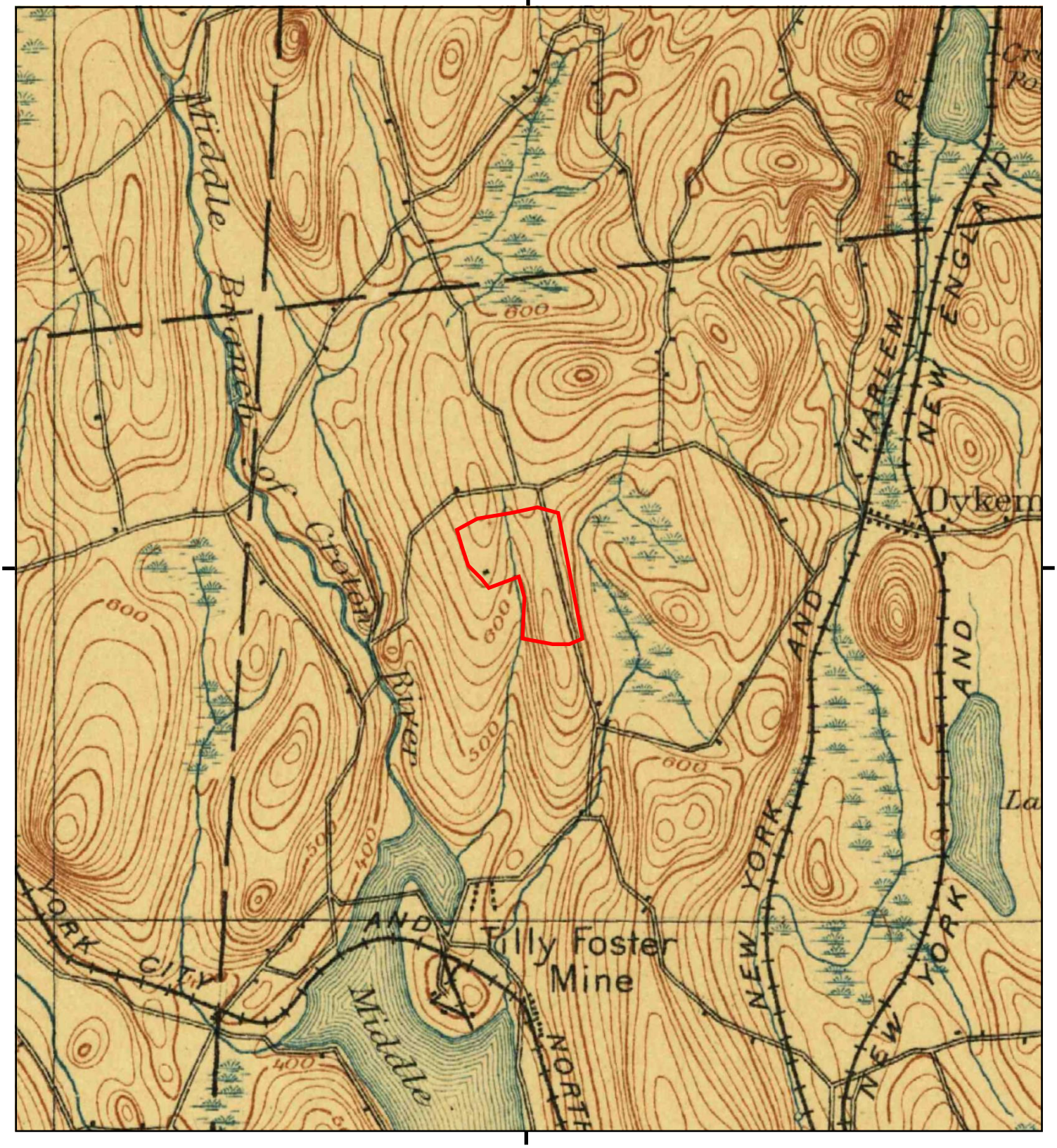
TP, Carmel, 1893, 15-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N

Historical Topo Map

1892



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carmel, 1892, 15-minute

SITE NAME: 18-Putnam Seabury-1A
ADDRESS: 68 Barrett Road
Brewster, NY 10509
CLIENT: CA Rich Consultants, Inc.

N

APPENDIX D

SUPPLEMENTAL INFORMATION

Town Clerk
Michele Stancati

Town of Southeast

1360 Route 22
Brewster, New York 10509
Tel. (845) 279-2196
Fax (845) 279-4399
Email mstancati@southeast-ny.gov

Deputy Town Clerk
Elizabeth Cerone

Deputy Town Clerk
Donna Milazzo

APPLICATION FOR ACCESS TO PUBLIC RECORDS
FREEDOM OF INFORMATION LAW (FOIL) REQUEST

To: Building Department Date: 3/15/18

I hereby apply to receive the following record (s):
63 Barret Road - Tax Map 45-1-5
all files/ records concerning Tank removals
and any other environmental issues/ cleanups

I also guarantee that any lists of names and addresses received will not be used for commercial or fund-raising purposes

[signature] Richard I. Zzo
Signature / Printed Name

CA Rich Consultants, Inc
Company

(516) 576-8844
Phone

17 Dupont Street
Street Address

3/15/18
Date

Plainview, NY 11803
City, ST

FOR AGENCY USE ONLY

APPROVED ☐ If Available

Department Head Town Clerk Date

DENIED Record of which this Department is the Legal Custodian cannot be found or is not subject to the Open Information Law

Department Head Town Clerk Date

NOTICE: You have the right to appeal a DENIAL of this application to the Town Board of the Town of Southeast, 1360 Route 22, Brewster NY, 10509; Phone number for the Town Board is (845) 279-4313

March 19, 2018

Via e-mail: *PutnamHealth@putnamcountyny.gov*
Putnam County Department of Health
1 Geneva Road
Brewster, NY 10509

ATTN: FOIL Secretary

Re: Freedom of Information Law (FOIL) Request
63 Barrett Road
Southeast, NY
Sec. 45, Block 1, Lots: 4,5,8,12 &13

CA Rich Consultants, Inc. requests a search of the files throughout the Department for any and all environmental violations, actions, spills, or documentation for the above-referenced property.

Your attention to this matter is appreciated. If you have any questions or require further information, please contact CA Rich Consultants, Inc. at (516) 576-8844.

Sincerely,

CA RICH CONSULTANTS, INC.

Jason T. Cooper
Project Environmental Scientist

APPENDIX E

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Richard J. Izzo, PG #501

Mr. Izzo is the Vice President at CA RICH and has over 25 years of experience in the design, implementation and management of environmental testing and remediation programs throughout the northeast United States with particular emphasis in the tri-state and NY Metropolitan areas. As a specialist in the assessment and remediation of groundwater, soil, soil vapor, and underground storage tank management, he has worked with local, State and Federal government entities as well as private industry. Mr. Izzo has managed programs including Brownfield investigations; remedial investigations for Superfund Sites; Phase II investigations; Brownfield/Voluntary Cleanups; storage tank management; groundwater quality monitoring programs; and groundwater resource exploration and development. As Vice President at CA RICH, Mr. Izzo provides technical review of "All Appropriate Inquiry" Phase I and Phase II Environmental Site Assessments and Remedial Action Reports. He is a Certified Professional Geologist and Hazardous Waste Emergency Response Supervisor, and is member of the Association of Groundwater Scientists & Engineers, and the American Society for Testing and Materials.

Jason T. Cooper, PG #152

Jason Cooper is Project Environmental Scientist with CA RICH. Jason received his Bachelor of Science (Geology) from Buffalo State College in Buffalo, NY in 1999. He has completed OSHA training in Hazardous Waste Operations & Emergency Response, as well as the CPR course given by the American Red Cross. Jason has over 14 years of environmental experience with Phase I ESAs and Phase II Investigations. He has conducted over 100 Phase I ESAs on various types of properties including commercial, industrial, and residential properties throughout the greater NY/NY metropolitan area and the five boroughs of New York City. His Phase I ESA's have been used by financial institutions, city regulatory agencies (NYCHA, NYCHPD, NYCOER), and private companies in order to facilitate potential property transactions. When the Phase I ESA's identified Recognized Environmental Conditions (RECs), he followed up with the subsequent responsive Phase II Investigations. Typical responsibilities for the Phase I ESAs and Phase II Investigations includes coordinating historical and regulatory database searches, conducting property inspections, collecting soil, groundwater, and sediment samples, working with Federal, State and Local authorities, and authoring final reports.

Jason is familiar with navigating the State and City Brownfield Cleanup Programs and has received approval into the programs with numerous sites. He has worked on Brownfield Sites from application and has followed through to closure.