

April 3, 2012

VIA OVERNIGHT DELIVERY

David L. Bimber
Deputy Regional Permit Administrator
Division of Environmental Permits
New York State Department of
Environmental Conservation
Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9519

Re: *DEC Facility No. 8-4432-00085
Finger Lakes, LLC Underground LPG Storage Facility
Reading (T), Schuyler County*

Dear Mr. Bimber:

As you know, in our letter dated February 16, 2012, we provided the Department a copy of Finger Lakes LPG Storage, LLC's Pre-Construction Notification ("PCN") submitted to the U.S. Army Corps of Engineers with regard to the proposed Finger Lakes underground storage project.

Since that time, Finger Lakes' consultant, AK Environmental, LLC, has had discussions with the Corps of Engineers regarding the PCN and the information contained therein. As a result of those discussions, I enclose a revised PCN package that was submitted to the Army Corps of Engineers late last week. Specifically, it has been revised by depicting the large-sized Wetland Impact drawing, contained in Tab C in the original PCN package, in 8 ½ x 11 sheets, as requested by the Corps of Engineers. The only other change was a revision to Table 1 by reclassifying a culvert crossing of Stream S2 as a permanent impact instead of as a temporary impact. This does not in any way change the eligibility of these minor impacts for nationwide permit coverage.

We hope to receive approval from the Corps of Engineers under the Nationwide Permit Program shortly. It is likely that the Department will receive a copy of that authorization, but if for some reason it is not copied on the correspondence from the Corps of Engineers, we will provide a copy.

David L. Bimber
April 3, 2012
Page 2

Thank you.

Sincerely,

BOND, SCHOENECK & KING, PLLC



Kevin M. Bernstein

Enclosure



PRE-CONSTRUCTION
NOTIFICATION
(Revised)

FOR

FINGER LAKES STORAGE, LLC -
LIQUID PROPANE GAS STORAGE SYSTEM
PROJECT

Town of Reading
Schuyler County, New York

Prepared for:
Finger Lakes Storage, LLC
800 Robinson Road
Owego NY 13827

Prepared By:
AK Environmental, LLC
5020 Ritter Road, Suite 206
Mechanicsburg, Pa 17055

March 2012

AK Environmental, LLC | www.ak-env.com

5020 Ritter Road, Suite 206, Mechanicsburg, PA 17055 t. 717.458.8035 f. 717.307.3463

West Trenton, NJ | Holly Springs, NC | Aiken, SC | East Kingston, NH | Mechanicsburg, PA | Holliston, MA



March 28, 2012

Ms. Margaret Crawford
Biologist
U.S. Army Corps of Engineers
Regulatory Branch - Auburn Field Office
7413 County House Road
Auburn, New York 13021

RE: **Preliminary-Construction Notification (Revised)**
Finger Lakes LPG Storage, LLC Liquid Petroleum Gas (LPG) Storage Project
Town of Reading, Schuyler County, New York

Ms. Crawford,

Finger Lakes LPG Storage, LLC (Finger Lakes), a subsidiary of Inergy Midstream, LP (Inergy Midstream), is proposing to construct a multi-cycle Liquid Petroleum Gas (LPG) storage project, with rail spurs, rail/truck area, a plant area, pipelines, transmission line, water line, and brine ponds in the Town of Reading, Schuyler County, New York. Based upon the regulations set forth in Section 404 of the Clean Water Act, combined with the proposed temporary and/or permanent impacts to wetlands and waters of the US associated with this Project, Finger Lakes is submitting the following information to satisfy the requirements of the Pre-Construction Notification (PCN) requirement for verification and authorization of the activities described below under either Nationwide Permit 12 or 39. A Joint Application Form is also attached.

Prospective Permittee

Finger Lakes LPG Storage, LLC.
Mike LeRose, Project Manager
800 Robinson Road, Owego NY 13827
607-689-0956

AK Environmental, LLC | www.ak-env.com

5020 Ritter Road, Suite 206, Mechanicsburg, PA 17055 t. 717.458.8035 f. 717.307.3463

West Trenton, NJ | Durham, NC | Aiken, SC | East Kingston, NH | Mechanicsburg, PA

Project Location

The Project study area lies west of Seneca Lake, just north of the Village of Watkins Glen, New York. It is located to the east and west of the New York (NY) State Route 14 and 14A intersection in the Town of Reading, Schuyler County, New York. A Project location map is attached.

Project Description

The western portion of the study area includes an approximately 37-acre parcel (former Casella Property) located approximately 1,200 feet from the NYS Route 14 and 14A intersection. The eastern portion of the study area includes an approximately 50-acre area, situated immediately east of the NYS Route 14 and 14A intersection, on the larger US Salt property. The central portion of the study area includes a 75-foot wide proposed pipeline corridor that extends from the Casella Property, east, to the larger US Salt facility that borders Seneca Lake. The western and eastern portions of the study area primarily include fallow agricultural fields or regenerating shrub/sapling areas. The central portion of the study area is currently dominated by a mature upland forest.

The facility will consist of a rail siding, truck loading area with associated offices, storage tanks, and a brine pond on the former Casella property, and a plant area and brine pond on the US Salt property. The plant area (located on US Salt property adjacent to the driveway to its existing brine field) will transfer gas between the storage caverns and the rail siding and truck loading area, underground storage caverns which will store the gas, and brine storage ponds that will store a significant portion of the brine displaced from the caverns as LPG gas is pumped in. The system will utilize new pipelines that will interconnect all of the sites, in addition to the neighboring Enterprise Products facility (formerly owned by Texas Eastern Products Pipeline Company [“TEPPCO”] and sometimes called the TEPPCO facility) to allow for transfer of LPG and brine. A Wetland Impact Exhibit (a.k.a. Proposed Site Plan) is attached.

The process for the above Project includes filling the already existing caverns with brine solution. The brine solution will be removed from nearby subsurface caverns to develop storage volume for LPG. The amount of brine solution in the pond will be dependent on the amount of LPG that is being stored in the underground caverns.

During the fall season, the brine pond will be its fullest as LPG storage at that time is at its maximum volume in anticipation of the winter heating season. Conversely, the water surface elevation in the brine pond will be the lowest in the spring when much of the LPG has been withdrawn from the caverns to satisfy the winter heating demands. The brine solution will be

displaced from the underground caverns when the LPG is injected into them. The brine will flow up the tubing string into the brine line at the surface, which is a sealed system, and through the flare stack to remove any possible gas product that may accompany the brine solution and into the proposed brine pond. The caverns will always have fluid in them.

Product will be injected directly into the caverns when received by pipeline with the use of electronically driven injection pumps. When product (LPG) is received by rail, it will first be transferred to the aboveground bullet tanks using 40 hp compressor units. Two (2) electrically driven 75 hp pumps will be used to pump product from the tanks into the pipeline before being injected (using electrically driven injection pumps) into the caverns. Product withdrawal from the cavern containing propane will go through a mole sieve dryer (taking the moisture out of the propane) and moving up the pipeline to either the aboveground bullet tanks to be loaded onto trucks or directly to tank cars for shipment by rail. Product withdrawal from the cavern containing butane will go up pipeline to the tank cars directly for shipment. Propane can also be received from the TEPPCO pipeline during the winter and loaded onto trucks after first being transferred from the TEPPCO pipeline to the aboveground bullet tanks where the 75 hp pumps will assist in loading the trucks.

During normal operations, product will be injected into the caverns over the summer months when the demand for heating fuel greatly diminishes. During the injection season, the brine solution will be displaced from the cavern into the brine pond with the use of the 4 electrically driven injection pumps located on the east side of Route 14 until it is needed to displace the LPG back to the above ground facilities.

Project Purpose and Need

LPG is stored by producers to meet fluctuating or variable demand while distributors use storage facilities to supply customers with a constant supply. Large scale consumers of LPG benefit from bulk storage by ensuring themselves of a constant supply during times of shortage. LPG is stored in solution mined salt cavities, conventionally mined caverns in impervious rock, and confined porous reservoirs. For this project, Finger Lakes is utilizing solution mined caverns previously utilized by US Salt, a company also owned by Inergy Midstream.

The Northeast propane market is approximately 43 million barrels (mmbbls) or 1.8 billion gallons (bgls). Approximately 70% or 1.25bgls is consumed during the October to March period. During this period, as much as 40% or 720 million gallons (mmgls) of demand may occur during the December to January period.

Due to the supply traveling such long distances and the finite capacity of the TEPPCO system there are imbalances where demand exceeds local available supply during peak periods. In severe winters this can be extreme. There is only approximately 1.7mmbbls (71mmgls) of local storage. Additionally, it is not readily available to the market as it is used to supplement the

TEPPCO pipeline deliveries throughout the winter period which are apportioned based on shippers summer deliveries. The TEPPCO pipeline has been fully allocated 9 of the past 10 years for approximately 63 days each year. The apportioned gallons are approximately 1.7-2.0 times the shippers' summer deliveries and the retail marketers' demand profile is generally 2.5-3.0 times their summer requirements. Retailer tertiary storage is tight at approximately 2 days and they cannot withstand disruption in supply.

The combination of pipeline allocation and any disruption from waterborne imports (i.e. late ships which occur frequently) or stranded tank cars, and refinery outages during peak winter demand creates a shortfall in supply that causes demand for spot market product that is immediately available by truck or tank car. This drives local pricing spreads from the approximate average of 15 cents per gallon (cpg) over the Mt. Belvieu, Texas pricing index to 60cpg. In more severe winters these spreads can eclipse 90-100cpg.

Based on the average retail propane prices as referenced in United States Energy Information Administration (EIA) data, these spreads could cause increases in retail prices to consumers between 20-35% which would increase the average price of a 400 gallon winter tank fill from \$1,000 to \$1,350. Not only is this an economic burden for the consumer but it often drives consumers to seek cheaper and less clean sources of fuel. Because these spreads are driven by transportation and spot product economics they do not change with energy prices. When overall energy prices are lower, the percentage increase in prices to consumers due to the spot spread can be in the 50-60% range.

Finger Lakes will ultimately make available 2.1 million additional barrels or over 88 million gallons of local supply that will be immediately available with large scale truck, rail, and pipeline access. The ability to make product available to the market is a function of how much is in storage and immediately available along with a robust loading facility, which Finger Lakes' project will provide.

There is a demonstrated need for additional propane storage infrastructure in the area. The New York State Energy Plan Petroleum Assessment (December, 2009) characterizes propane fuel as a "small volume, essential source of energy for New York residents and business owners." Similarly, the New York State Energy Research and Development Authority ("NYSERDA") has stated that "propane is an important heating fuel in NYS and the strong demand during the winter heating season puts a strain on the industry's ability to meet that demand." In fact, 370 million gallons of propane will be consumed by New Yorkers each year, through an infrastructure of truck, rail, pipe, and storage terminals. The New York Propane Gas Association reports 233 retail locations serving New York. Over 220,000 New York Households use propane for primary space heating, mostly in suburban and rural areas. In addition, approximately 287,691 New York Households use propane as primary fuel for heating water. Moreover, approximately 514,000 New York State Households use propane for cooking. Over 20% of residences use propane in Schuyler County. The residents and businesses in the area use this kind of clean energy for heating and cooking and storage and

transportation services are essential to serving these residents. LPG has been stored and transported safely in this area for decades.

Each year, with truck and rail terminals operating at optimal capacity, New Yorkers will consume the propane in storage and import additional supply depending on the severity of winter. Current storage capacity of New York is not enough to offset imports. For the past 12 winters, the TEPPCO propane terminals in New York have allocated the propane supplied via pipeline during 40 % of the peak winter demand period, November through February. Current pipe capacity is not enough to offset imports.

Adverse Environmental Impacts

Although there will be direct and/or indirect impacts to wetlands, streams, noise, air, aesthetics, flora, fauna, and the social environment as a result of the construction efforts related to the Project, there are only a few impacts that would have the potential to be adverse. The majority, if not all, of these impacts will be temporary and realized only during construction. They include fugitive dust, noise and emissions from construction equipment, and the loss of vegetative cover until the next growing season.

The potentially adverse environmental impacts relating to the proposed construction and operation of the Project include the removal of mature trees along the 75-foot wide pipeline corridor between the former Casella property and State Route 14, permanent impacts to Wetland W1 and Wetland W3, truck traffic as a result of product delivery, surface water quality, subsurface geology/groundwater underlying the brine ponds, or future hazards relating to releases.

The proposed pipeline corridor between the former Casella property and State Route 14 extends approximately 3,000 feet. At a proposed cleared width of 75-feet, the entire impact to the mature forest stand is approximately 225,000 square feet or 5.17-acres.

The permanent wetland impacts equate to 0.10-acres and include 0.02-acres of palustrine emergent (PEM) Wetland W1 impacts and 0.08-acres of palustrine open water (POW) Wetland W3 impacts associated with the construction of the western brine pond on the former Casella property. Other temporary impacts to wetland and/or streams are included in the following table. There are 300 linear feet of permanent impacts proposed to Stream S2, as well as, 191 linear feet of temporary impacts to Streams S2, S4, S6, S15, and S7. Stream S2, S3, S9, S10, and S17 are ephemeral channels and S1, S6, and S8 are perennial channels. All other streams within the proposed Project conduct intermittent flows.

Table 1 – Wetland/Stream Impacts					
Resource	Wetland Impact (sq.ft.)		Stream Impact (l.f.)		Comment
	Permanent	Temporary	Permanent	Temporary	
Stream S2			211		Culvert Crossing
Stream S2				25	Pipeline Crossing
Stream S2			89		Culvert Crossing
Wetland W1	0.02				West Brine Pond
Wetland W3	0.08				West Brine Pond
Stream S1					Aerial Pipeline Crossing
Stream S4				50	Pipelines Crossing
Stream S6				25	Pipeline Crossing
Stream S5					Aerial Pipeline Crossing
Stream S21					Aerial Pipeline Crossing
Stream S15				66	Pipeline Crossing
Wetland W21		0.01			Pipeline Crossing
Stream S7				25	Pipeline Crossing
Stream S8					Aerial Pipeline Crossing
Total	0.10	0.01	300	191	

sq.ft. = square feet, l.f. = linear feet

The proposed Project site is expected to operate between the hours of 4:00am and 8:00pm. Access to the site is planned via one full access driveway to Route 14A, approximately 700 feet northwest of the crossover connection to Route 14.

For this type of facility, there is no direct schedule for tanker truck arrivals. Any trucks that arrive when the facility is closed will be provided ample space on the site to park and queue. Any trucks arriving when the site is open will be directed to the loading bays and processed. Given the operational window of 12 hours, approximately 4 trucks are expected to arrive or depart in any given single hour. An additional 8-10 vehicles (employee vehicles) will be expected to arrive in the morning before the site opens and exit in the evening when the site closes.

Given the low existing traffic volumes on Route 14A, along with the minimal traffic volumes expected to be generated by the site, there are no concerns with availability of gaps in traffic to turn in or out of the site. There are also no concerns with traffic volume capacity for the proposed stop controlled site driveway.

The traffic study prepared for this Project concluded that the additional traffic generated by the proposed Finger Lakes LPG Storage facility is negligible and will generally not be noticeable to existing motorists or residents in the area. Any hourly increase in truck traffic will also be negligible with no more than five trucks per hour expected. Trucks will likely use the crossover to the east to access Route 14, which is an established existing truck route in the area. Existing traffic volumes on Route 14A are low with less than 100 vehicles per hour in either direction which provides excess capacity to accommodate the minor increase in traffic

expected. There are ample available sight distance lines in both directions from the site driveway along Route 14A which will provide for safe ingress and egress from the site. The New York State Department of Transportation concurs with these conclusions.

Two different Class C tributaries to Seneca Lake and several drainage swales flow through the Project location. No municipal potable water supplies are located within the Project area. The Project area is adjacent to Seneca Lake which serves as the potable water intake source for the municipal water supply for the Village of Watkins Glen and the Town of Hector, among others. The potable water intake for the Village of Watkins Glen is located at the northern village boundary with Seneca Lake, approximately 2.75 miles south (upstream) of the closest stream outflow point that might contain surface water run-off from the project. The waters of Seneca Lake flow northward and, as a result, this potable water source is upstream from the Project. The Town of Hector water system supplies water to parts of the Town of Hector and the Village of Burdett. The Town of Hector potable water intake is located at Smith Memorial Park on the eastern shore of Seneca Lake, approximately five miles north and downstream from the closest stream outflow point that might contain surface water run-off from the project. There are non-public community potable wells for private use located at the US Salt processing facilities just south of the Big Hollow Run outflow (outside the project area) and at three motels located along New York State Route 14 (outside the project area). The closest potable water intake source utilizing ground water is in the Village of Montour Falls, which has shallow wells in the glacial gravel of the Catherine Creek Valley, approximately four miles south of the project area.

No designated surface water protection areas or sensitive waterbodies are crossed by the proposed Project facilities. Seneca Lake, as noted above, is used for municipal potable water supply purposes and has a DEC classification of (AA)(TS) per 6 NYCRR Part 898. The best usage of Class AA waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; fishing. The waters shall be suitable for fish propagation and survival. The symbol (TS) means that the designated waters are suitable for trout spawning. Seneca Lake's water quality classification establishes it as a specially designated surface water protection area.

The proposed facilities do not cross or affect any U. S. Environmental Protection Agency ("EPA") or state designated aquifers. The Project will not require excavation within an aquifer. Furthermore, the Project will receive NY State 401 Water Quality certification and an approved Stormwater Pollution Prevention Plan ("SWPPP") prior to construction.

Subsurface conditions were determined through the advancement of test borings, excavation of test pits, installation of groundwater monitoring wells and the performance of in-situ and laboratory tests. As a result of the tests, it was determined that there is approximately 2 to 10 inches of topsoil across the Project area. The bedrock was found to be weathered and broken to depths of 1 to 7 feet below its surface. The observed groundwater levels were found to be present 1.3 feet to 6.2 feet below the existing site grades.

The brine ponds will be constructed using a double-liner and leak detection system. A 60-mil textured HDPE geomembrane will be installed above a heavy duty geotextile to separate the liner from any underlying drainage and to prevent it from being punctured. A leak detection system consisting of geocomposite (geonet) will be installed above this geomembrane and itself be covered with the primary geomembrane, a 45-mil reinforced polypropylene (rPP) geomembrane. The upper (primary) geomembrane will contain the brine solution while the lower (secondary) liner will contain any potential leaks in the primary liner. The upper rPP geomembrane has been selected due to its flexibility in handling, excellent weathering characteristics and chemical/UV resistance and manufacturer's warranty period of 20 years. The lower textured HDPE geomembrane has been selected due to its enhanced sliding resistance over the heavy duty geotextile and its greater resistance to being punctured by the underlying stone.

The lower geomembrane liner provides a secondary line of defense against the potential for leakage of brine into the groundwater. In order to document the quality of the groundwater during the life of the pond, a series of monitoring wells will be installed. Monitoring groundwater quality will consist of collecting groundwater samples on a quarterly basis. More frequent groundwater monitoring will be conducted in the event a leak in the primary liner system is identified. If the concentration of targeted parameters increases in the down-gradient monitoring wells (but not in the up-gradient wells), steps will be undertaken to further investigate the cause of such an occurrence.

While a complete structural failure of the brine pond, however unlikely, may potentially pose a threat to vegetation and soils in the immediate vicinity, Finger Lakes has taken all necessary precautions to prevent such a failure, including the chosen liner, monitoring requirements, repair and replacement procedures, and most recently with the significant reduction in size of the originally proposed brine pond and having two (instead of one) brine ponds.

Wetland Delineation

The Wetland Identification & Delineation Report (Addendum II), which qualifies and quantifies all wetlands and waters of the US, is attached. The proposed Project will not result in the loss of greater than 1/10 acre of wetlands, therefore mitigation is not required. Also, the proposed Project will not result in the loss of greater than 0.5-acres of wetlands or greater than 300 linear feet of other waters of the US, which fall within the Nationwide Permit (NWP) thresholds.

A "Request for Preliminary Jurisdictional Determination", to verify the wetland/stream boundaries identified in the "Wetland Identification & Delineation Report (Addendum II)", is also attached.

Listed Species and Designated Critical Habitat



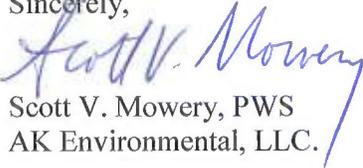
According to a letter from the New York State Department of Environmental Conservation (NYSDEC), dated December 13, 2011, the New York Natural Heritage Program (NYNHP) database has no records of rare or state listed animals or plants, significant natural communities, or other significant habitats, on or in the immediate vicinity of the Project. The letter from the NYSDEC is attached.

Historic Properties

In a letter dated September 11, 2009, Bond, Schoeneck, & King, PLLC submitted a Project Review Cover Form to the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) requesting a review of potential cultural resources impacts associated with the proposed Finger Lakes LPG Storage, LLC, construction activities. Following subsequent correspondence and filings, in a letter dated October 14, 2009, the OPRHP provided the opinion that the Project will have no impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places. The OPRHP concurrence is attached.

If you have any questions or comments, please feel free to contact our office at (717) 458-8035.

Sincerely,



Scott V. Mowery, PWS
AK Environmental, LLC.

Attachments: Joint Application Form
Project Location Map
Wetland Impact Exhibit (Proposed Site Plan)
Wetland Identification & Delineation Report (Addendum II)
Request for Preliminary Jurisdictional Determination (JD) and JD Map
NYSDEC Correspondence
SHPO Correspondence
Grading Exhibit

Cc: Mike LeRose – Inergy
Kevin Bernstein, Esq., Bond, Schoeneck & King, PLLC



TABS

- A) Joint Application Form
- B) Project Location Map
- C) Wetland Impact Exhibit (Proposed Site Plan)
- D) Wetland Identification & Delineation Report (Addendum II)
- E) Request for Preliminary JD and JD Map
- F) NYSDEC Correspondence
- G) SHPO Correspondence
- H) Grading Exhibit

A



JOINT APPLICATION FORM



For Permits/Determinations to undertake activities affecting streams, waterways, waterbodies, wetlands, coastal areas and sources of water supply.

New York State

You must separately apply for and obtain separate Permits/Determinations from each involved agency prior to proceeding with work. Please read all instructions.

US Army Corps of Engineers (USACE)

<p>APPLICATIONS TO 1. NYS Department of Environmental Conservation</p> <p>Check all permits that apply:</p> <table border="0"> <tr> <td><input type="checkbox"/> Stream Disturbance</td> <td><input type="checkbox"/> Coastal Erosion Management</td> </tr> <tr> <td><input type="checkbox"/> Excavation and Fill in Navigable Waters</td> <td><input type="checkbox"/> Wild, Scenic and Recreational Rivers</td> </tr> <tr> <td><input type="checkbox"/> Docks, Moorings or Platforms</td> <td><input type="checkbox"/> Water Supply</td> </tr> <tr> <td><input type="checkbox"/> Dams and Impoundment Structures</td> <td><input type="checkbox"/> Long Island Well</td> </tr> <tr> <td><input checked="" type="checkbox"/> 401 Water Quality Certification</td> <td><input type="checkbox"/> Aquatic Vegetation Control</td> </tr> <tr> <td><input type="checkbox"/> Freshwater Wetlands</td> <td><input type="checkbox"/> Aquatic Insect Control</td> </tr> <tr> <td><input type="checkbox"/> Tidal Wetlands</td> <td><input type="checkbox"/> Fish Control</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Incidental Take of Endangered/Threatened Species</td> </tr> </table> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<input type="checkbox"/> Stream Disturbance	<input type="checkbox"/> Coastal Erosion Management	<input type="checkbox"/> Excavation and Fill in Navigable Waters	<input type="checkbox"/> Wild, Scenic and Recreational Rivers	<input type="checkbox"/> Docks, Moorings or Platforms	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Dams and Impoundment Structures	<input type="checkbox"/> Long Island Well	<input checked="" type="checkbox"/> 401 Water Quality Certification	<input type="checkbox"/> Aquatic Vegetation Control	<input type="checkbox"/> Freshwater Wetlands	<input type="checkbox"/> Aquatic Insect Control	<input type="checkbox"/> Tidal Wetlands	<input type="checkbox"/> Fish Control		<input type="checkbox"/> Incidental Take of Endangered/Threatened Species	<p>2. US Army Corps of Engineers</p> <p>Check all permits that apply:</p> <p><input checked="" type="checkbox"/> Section 404 Clean Water Act</p> <p><input checked="" type="checkbox"/> Section 10 Rivers and Harbors Act</p> <p><input checked="" type="checkbox"/> Nationwide Permit(s) - Identify Number(s): 44, 39, and/or 12 _____</p> <p>Preconstruction Notification - <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N</p> <p><input checked="" type="checkbox"/> I am sending this application to this agency.</p>	<p>3. NYS Office of General Services</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> State Owned Lands Under Water</p> <p><input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.)</p> <p><input type="checkbox"/> Docks, Moorings or Platforms</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>4. NYS Department of State</p> <p>Check if this applies:</p> <p><input type="checkbox"/> Coastal Consistency Concurrence</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>
<input type="checkbox"/> Stream Disturbance	<input type="checkbox"/> Coastal Erosion Management																		
<input type="checkbox"/> Excavation and Fill in Navigable Waters	<input type="checkbox"/> Wild, Scenic and Recreational Rivers																		
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<input type="checkbox"/> Tidal Wetlands	<input type="checkbox"/> Fish Control																		
	<input type="checkbox"/> Incidental Take of Endangered/Threatened Species																		

5. Name of Applicant (use full name) Mike LeRose - Finger Lakes LPG Storage, LLC		Applicant must be: <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Lessee (check all that apply)
Mailing Address 800 Robinson Road		
Post Office City Owego	Taxpayer ID (If applicant is NOT an individual): 20-3143796	
State NY	Zip Code 13827	
Telephone (daytime) 607-689-0956	Email mlerose@inergyservices.com	

6. Name of Facility or Property Owner (if different than Applicant) SAME	
Mailing Address	
Post Office City	
State	Zip Code
Telephone (daytime)	Email

7. Contact/Agent Name Scott Mowery	
Company Name AK Environmental, LLC	
Mailing Address 5020 Ritter Road, Suite 206	
Post Office City Mechanicsburg	
State PA	Zip Code 17055
Telephone (daytime) 717-585-2051	
Email smowery@ak-env.com	

8. Project / Facility Name Finger Lakes LPG Storage Project		Property Tax Map Section / Block / Lot Number 43-1-29.12, 43-1-12/13/15/16/17/19, & 43-1-35.113	
Project Location - Provide directions and distances to roads, bridges and bodies of waters: The Project study area lies west of Seneca Lake and near the US Salt facility, just north of the Village of Watkins Glen, New York.			
Street Address, if applicable 3768 State Route 14		Post Office City Watkins Glen	State NY
Town / Village / City Reading		Zip Code 14891	
County Schuyler			
Name of USGS Quadrangle Map Reading Center, NY		Stream/Water Body Name Unnamed tribs. to Seneca Lake	
Location Coordinates: Enter NYTMs in kilometers, OR Latitude/Longitude			
NYTM-E	NYTM-N	Latitude N 42 25.016	Longitude W 76 54.018

For Agency Use Only	DEC Application Number:	USACE Number:
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JOINT APPLICATION FORM - PAGE 2 OF 2
Submit this completed page as part of your Application.

9. Project Description and Purpose: Provide a complete narrative description of the proposed work and its purpose. Attach additional page(s) if necessary. Include: description of current site conditions and how the site will be modified by the proposed project; structures and fill materials to be installed; type and quantity of materials to be used (i.e., square ft of coverage and cubic yds of fill material and/or structures below ordinary/mean high water) area of excavation or dredging, volumes of material to be removed and location of dredged material disposal or use; work methods and type of equipment to be used; pollution control methods and mitigation activities proposed to compensate for resource impacts; and where applicable, the phasing of activities. **ATTACH PLANS ON SEPARATE PAGES.**

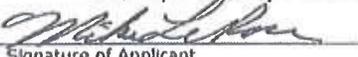
see attached PCN

Proposed Use: <input type="checkbox"/> Private <input type="checkbox"/> Public <input checked="" type="checkbox"/> Commercial	Proposed Start Date: 4/2012	Estimated Completion Date: 6/2012
Has Work Begun on Project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, explain.		
Will Project Occupy Federal, State or Municipal Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please specify.		

10. List Previous Permit / Application Numbers (If any) and Dates:

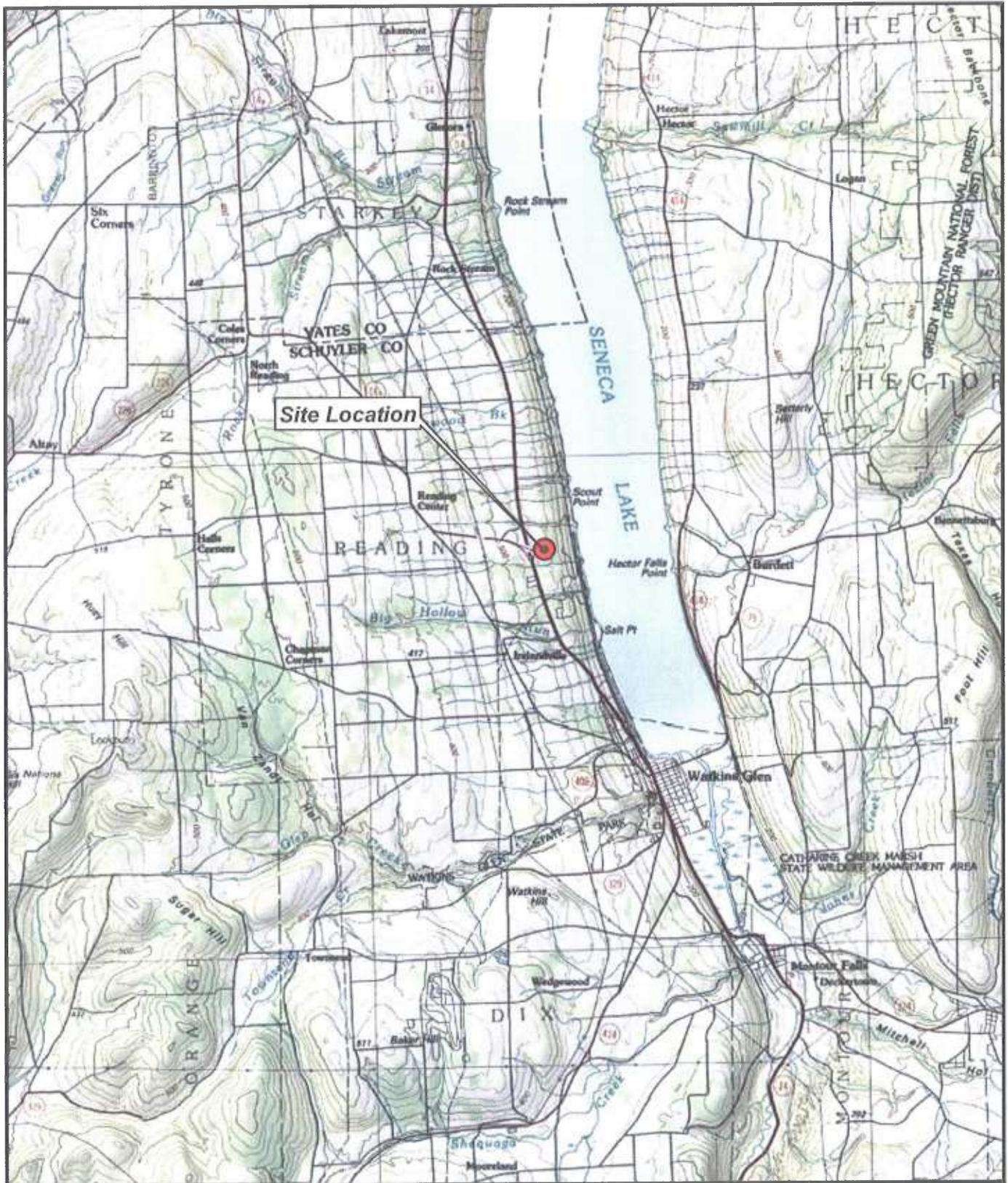
11. Will this project require additional Federal, State, or Local Permits including zoning changes? Yes No If yes, please list:
DEC Underground Storage Permit

12. Signatures. If applicant is not the owner, both must sign the application.
I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

	Michael LeRose	Director, Project Manager	2/14/12
Signature of Applicant	Printed Name	Title	Date
SAME			
	Scott V. Mowery	Env. Project Manager	2/14/12
Signature of Owner	Printed Name	Title	Date
Signature of Agent	Printed Name	Title	Date

For Agency Use Only	DETERMINATION OF NO PERMIT REQUIRED
Agency Project Number _____	
_____ has determined that No Permit is required from this Agency for the project described in this application.	
(Agency Name)	
Agency Representative: Name (printed) _____	Title _____
Signature _____	Date _____

B



Project Location Map
Finger Lakes LPG Storage, LLC
Schuyler County, New York

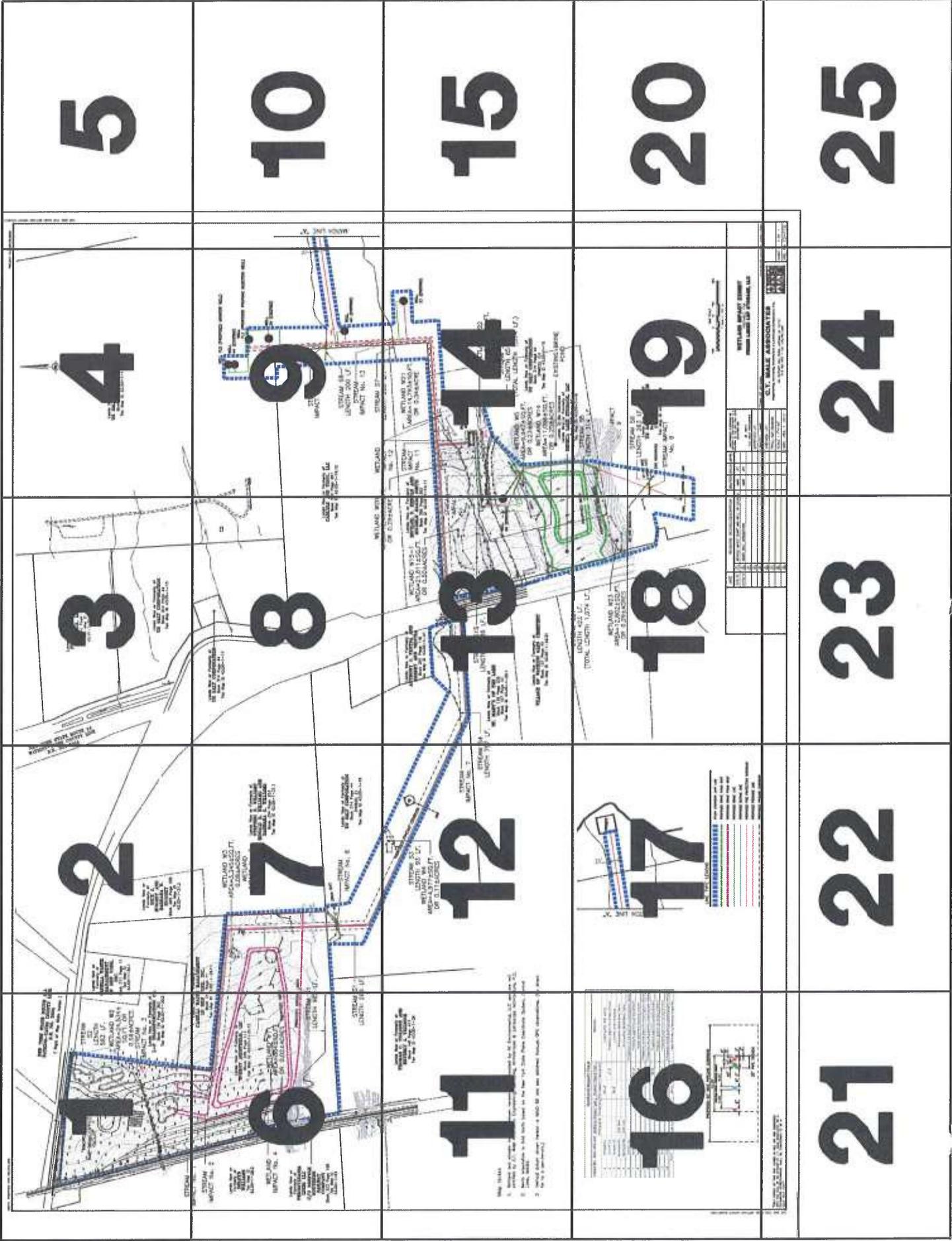


Figure 1

Date: 5/16/2011 Drawing #: A11024A

AK Environmental, LLC
 5020 Ritter Road, Suite 206
 Mechanicsburg, PA 17055

C



5

10

15

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13

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23

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17

22

1

6

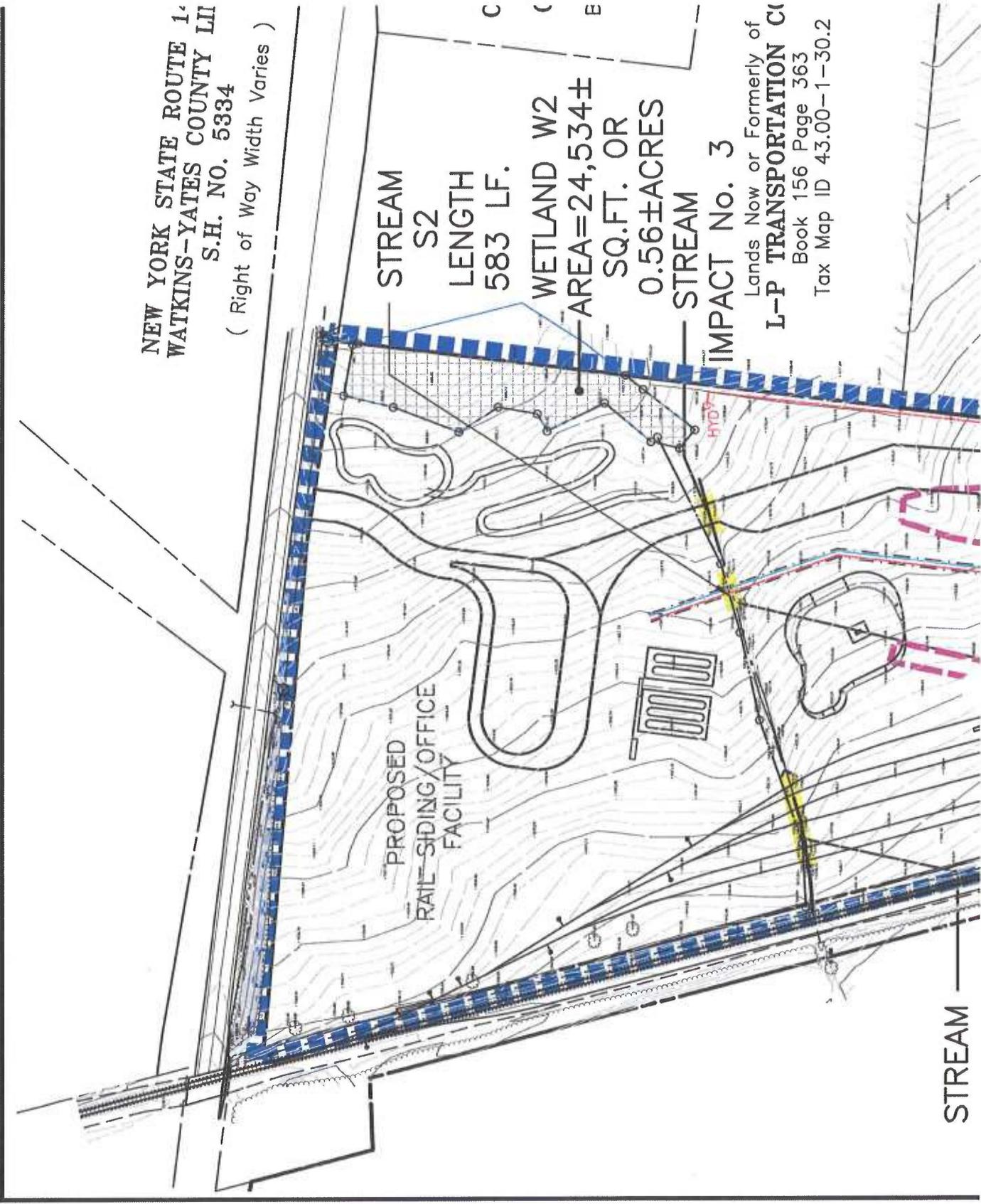
11

16

21

XREFS: PROPOSED PIPE ROUTES.DWG

NEW YORK STATE ROUTE 1,
WATKINS-YATES COUNTY LII
S.H. NO. 5334
(Right of Way Width Varies)



STREAM

S2

LENGTH

583 LF.

WETLAND W2

AREA=24,534±

SQ.FT. OR

0.56±ACRES

STREAM

IMPACT No. 3

Lands Now or Formerly of
L-P TRANSPORTATION CO
Book 156 Page 363
Tax Map ID 43.00-1-30.2

STREAM

NEW
WATKINS-12
S.H. NO.

4A
VE

Lands Now or
Formerly of
**ASELLA WASTE
MANAGEMENT
OF NEW YORK,
INC.**

Book 311 Page 11
Tax Map ID
43.00-1-30.1

Lands Now or
Formerly of
**RICK J.
HUGHEY AND
BARBARA W.
HUGHEY**

Book 280 Page 225
Tax Map ID
43.00-1-31.2

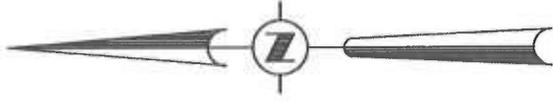
D.

2

Lands Now or Formerly of
**FINGER LAKES LGP
STORAGE, LLC**
Book 362 Page 734
Tax Map ID
43.00-1-35.113

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-13

NEW YORK STATE ROUTE 14
STATES COUNTY LINE
5334



Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 53.00-1-12



CAD DWG. FILE NAME: WETLAND-IMPACT-EXHIBIT.D

ABER: 08.8696



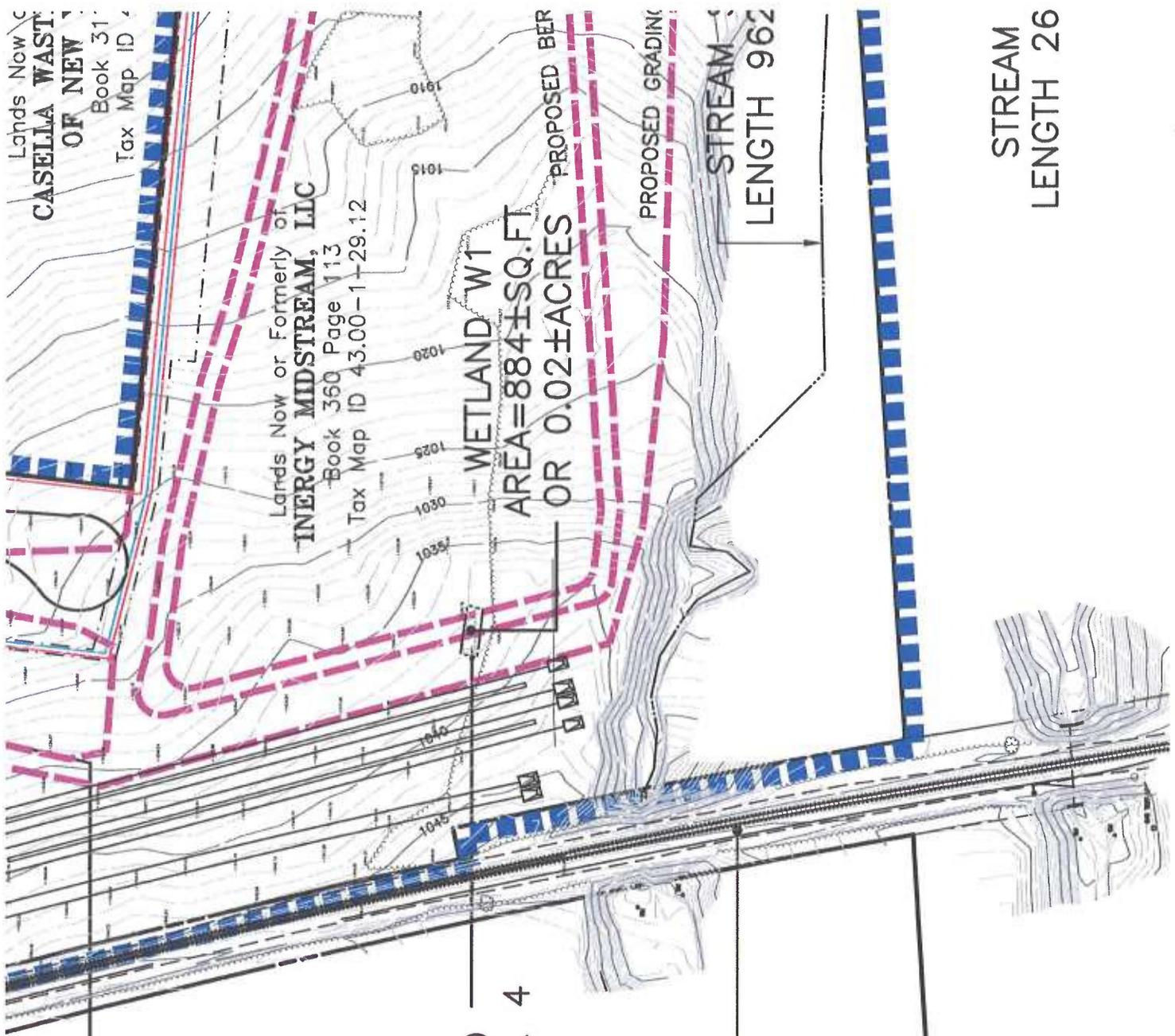
IMPACT No. 1

STREAM
IMPACT No. 2

Lands Now or Formerly of
DELOYD WILLIAMS
Tax Map ID 43.00-1-29.2

WETLAND
IMPACT No. 4

Lands Now or Formerly of
PENNSYLVANIA LINES LLC
C/O NORFOLK SOUTHERN RAILWAY COMPANY
Book 323 Page 169
Tax Map ID 43.00-1-43

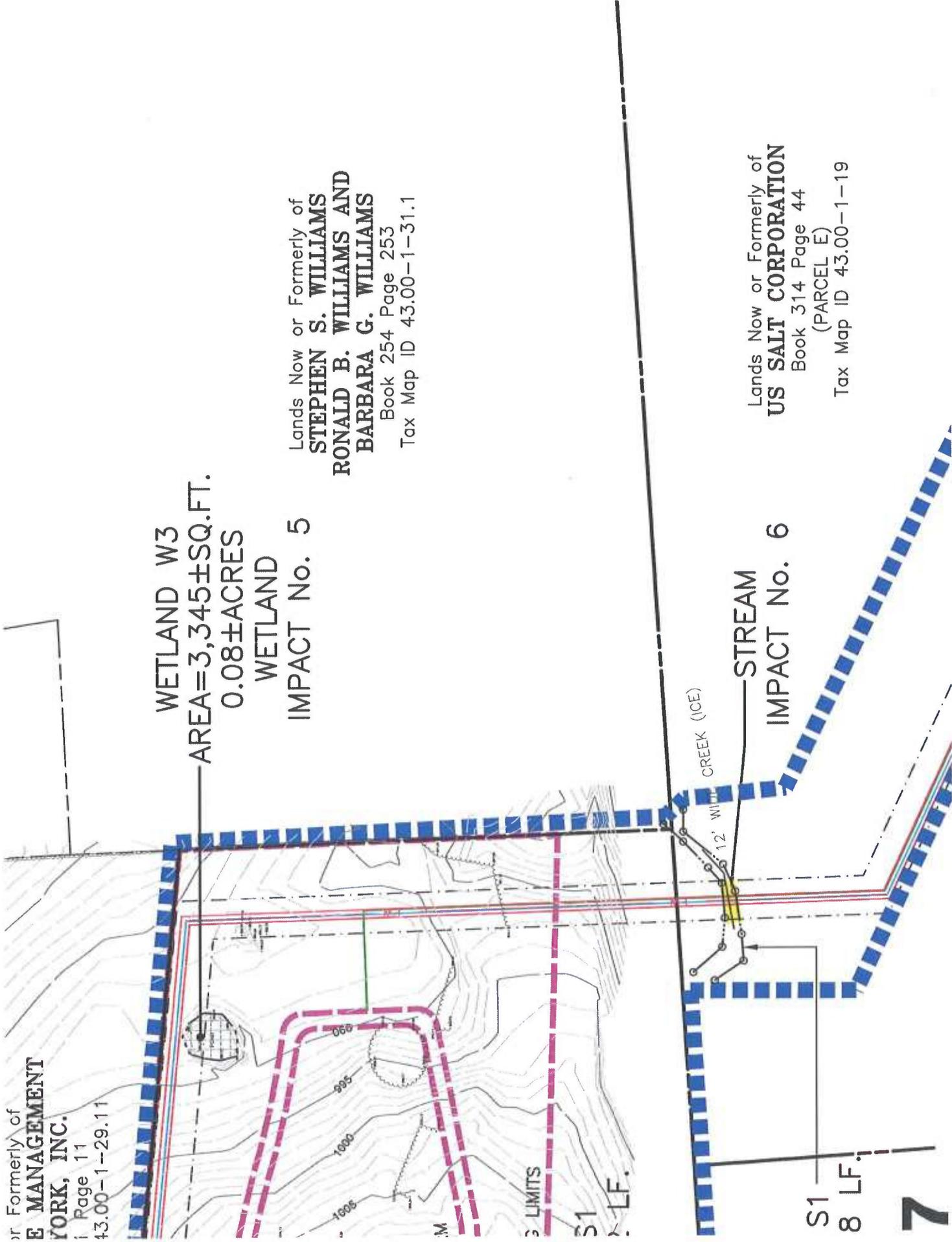


STREAM
LENGTH 26

Formerly of
E MANAGEMENT
YORK, INC.
Page 11
43.00-1-29.11

WETLAND W3
AREA=3,345±SQ.FT.
0.08±ACRES
WETLAND
IMPACT No. 5

Lands Now or Formerly of
STEPHEN S. WILLIAMS
RONALD B. WILLIAMS AND
BARBARA G. WILLIAMS
Book 254 Page 253
Tax Map ID 43.00-1-31.1



Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
(PARCEL E)
Tax Map ID 43.00-1-19

S1
8 LF.
7

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-17



Lands Now
CARLYLE A
Book 30
Tax Map ID

WETLAND W20
AREA 40 7100

WELL FL2 (PROPOSED MONITOR WELL)

WELL 44 (EXISTING)

WELL FL1 (PROPOSED PROPANE INJECTION WELL)

WELL 34 (EXISTING)

WELL 43 (EXISTING)

75

STREAM IMPACT No. 14

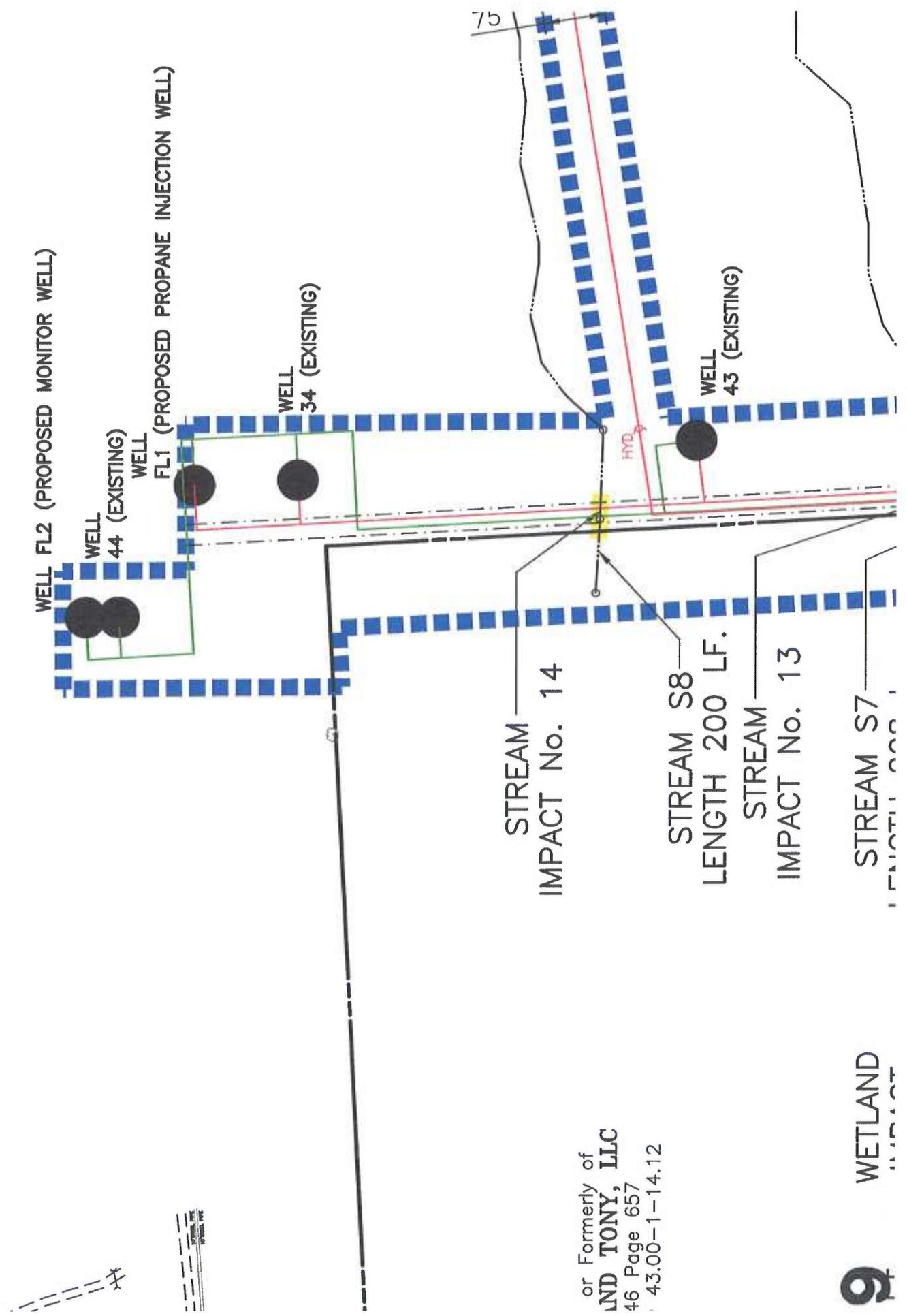
STREAM S8 LENGTH 200 LF.

STREAM IMPACT No. 13

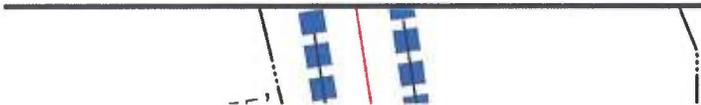
STREAM S7

or Formerly of
AND TONY, LLC
46 Page 657
43.00-1-14.12

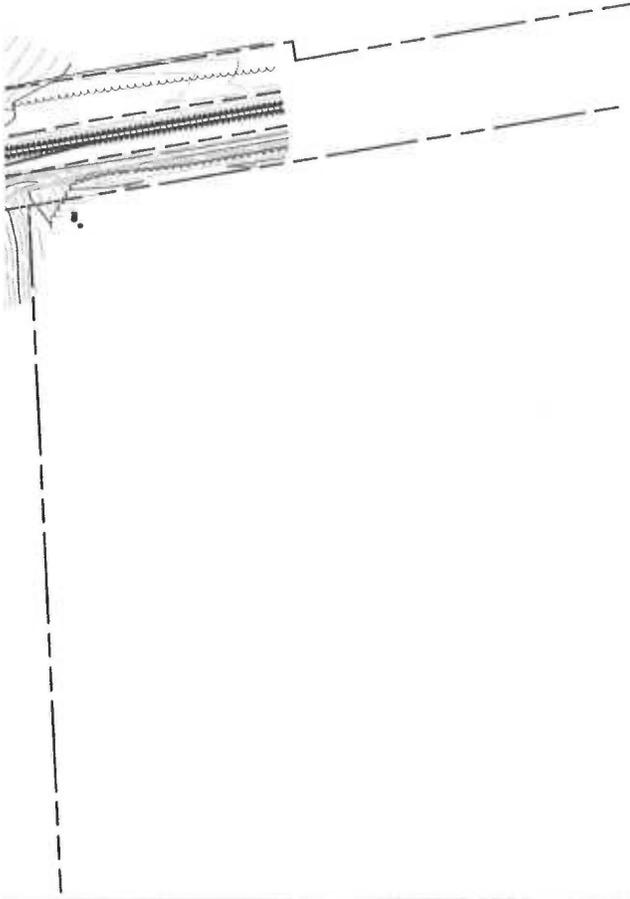
9 WETLAND IMPACT



MATCH LINE "A"

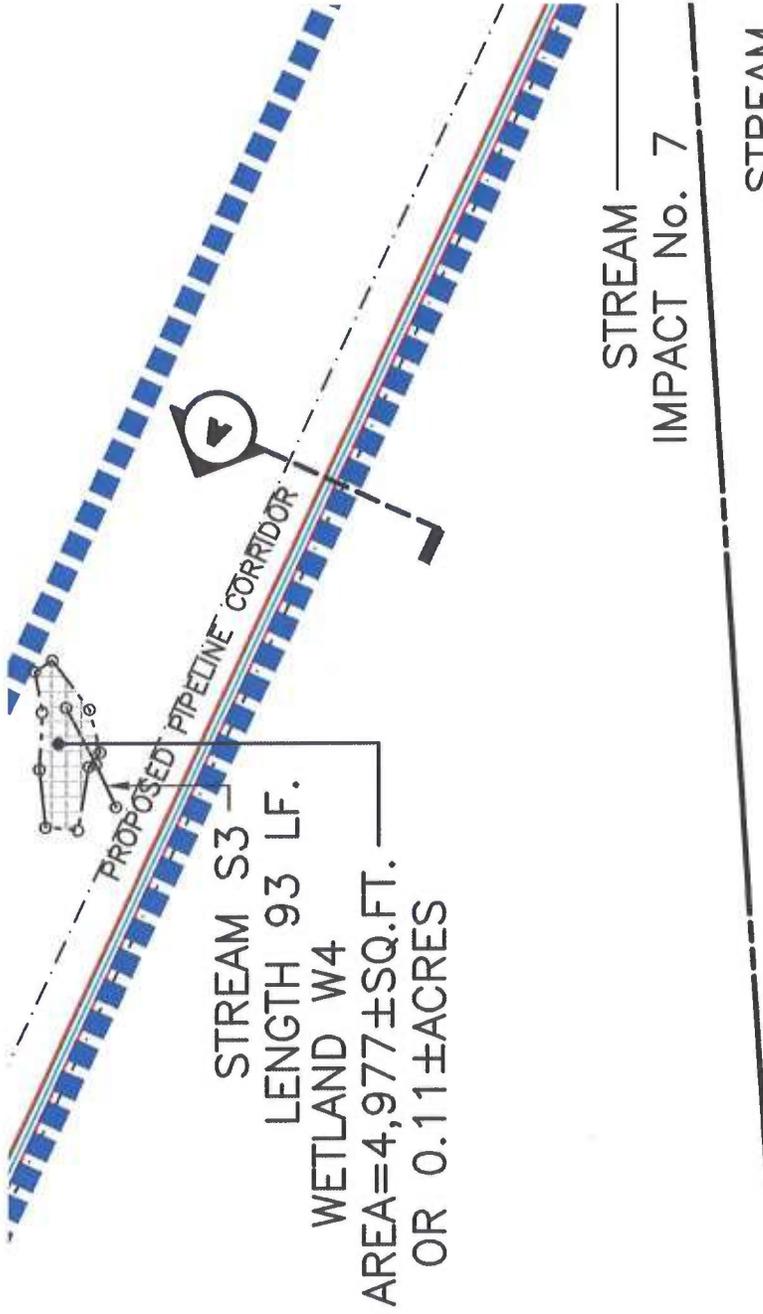


Lands Now or Formerly of
**THOMAS C. VIGLIONE AND
BEVERLY J. VIGLIONE**
Book 148 Page 413
Tax Map ID 43.00-1-24



Map Notes

1. Wetland and stream locations shown hereon were provided by AK Environmental, LLC and certified by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architect
2. North orientation is Grid North based on the New York State Plane Coordinate System, C Zone, NAD83.
3. Vertical datum shown hereon is NAVD 88 and was obtained through GPS observations. (N tie to a benchmark.)



are not
structure, P.C.

entrail

lo direct

AREA=14,400±ACRES
OR 0.29±ACRES

Lands Now or Formerly of
**ANTHONY J. VENTRA AND
SHERRY ANN VENTRA**
Book 241 Page 118
Tax Map ID 43.00-1-21

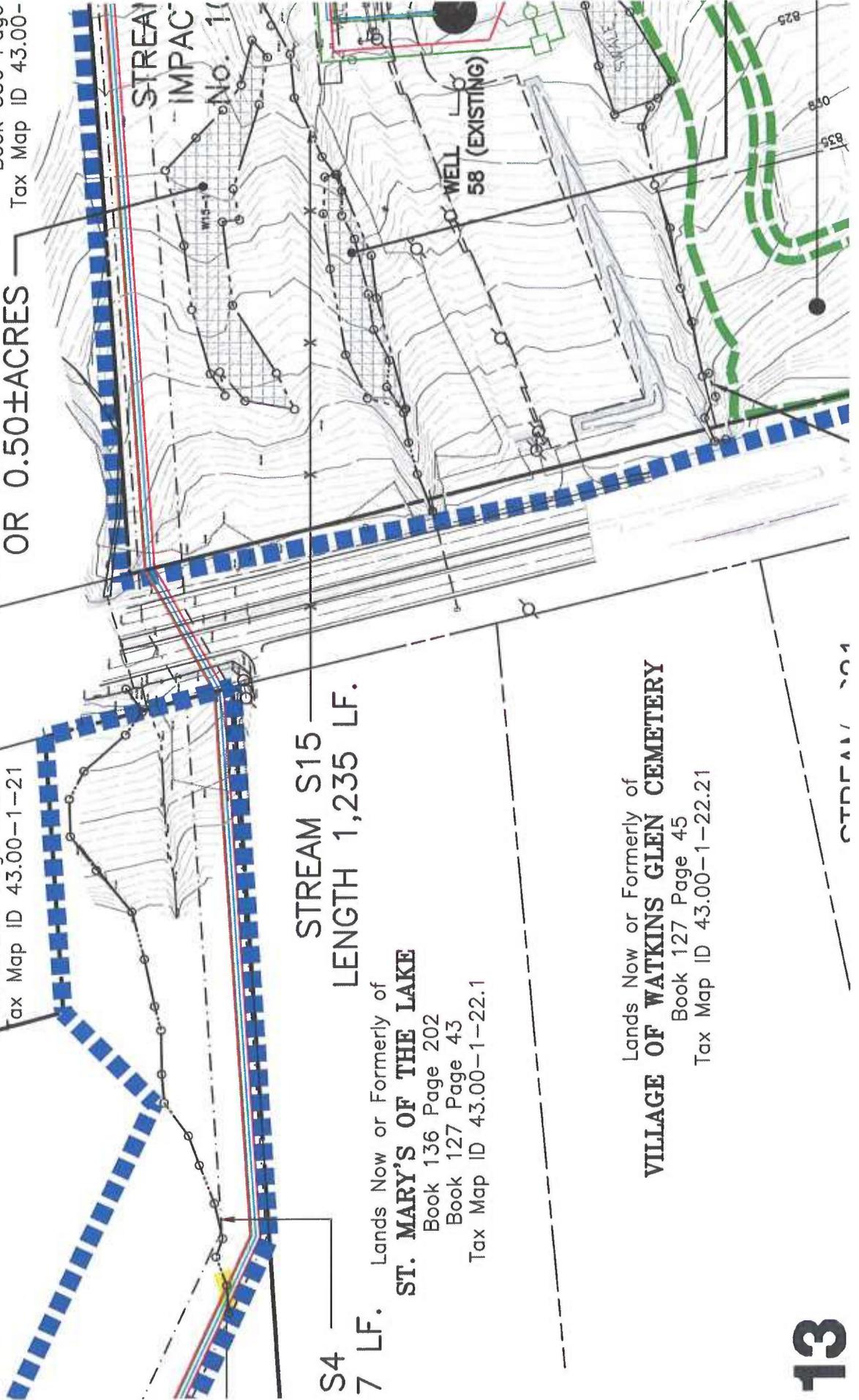
Lands Now or Formerly of
**MICHAEL U. HERMANN
MICHELE MAGDA**
Book 356 Page
Tax Map ID 43.00-

WETLAND W15-1
AREA=21,811±SQ.FT.
OR 0.50±ACRES

STREAM S15
LENGTH 1,235 LF.

S4
7 LF.
Lands Now or Formerly of
ST. MARY'S OF THE LAKE
Book 136 Page 202
Book 127 Page 43
Tax Map ID 43.00-1-22.1

Lands Now or Formerly of
VILLAGE OF WATKINS GLEN CEMETERY
Book 127 Page 45
Tax Map ID 43.00-1-22.21



14

IMPACT No. 12

STREAM No. 11

Formerly of OLD AND SMITH 363 -1-14.11

LENGTH 208 LF.

WETLAND W21 AREA=14,793±SQ.FT. OR 0.34±ACRE

WETLAND W22 AREA=7,398±SQ.FT. OR 0.17±ACRES

STREAM S21 LENGTH 651 LF. (TOTAL LENGTH 1,074 LF.)

WETLAND W5 AREA=9,947±SQ.FT. OR 0.23±ACRES

WETLAND W14 AREA=11,096±SQ.FT. OR 0.25±ACRES

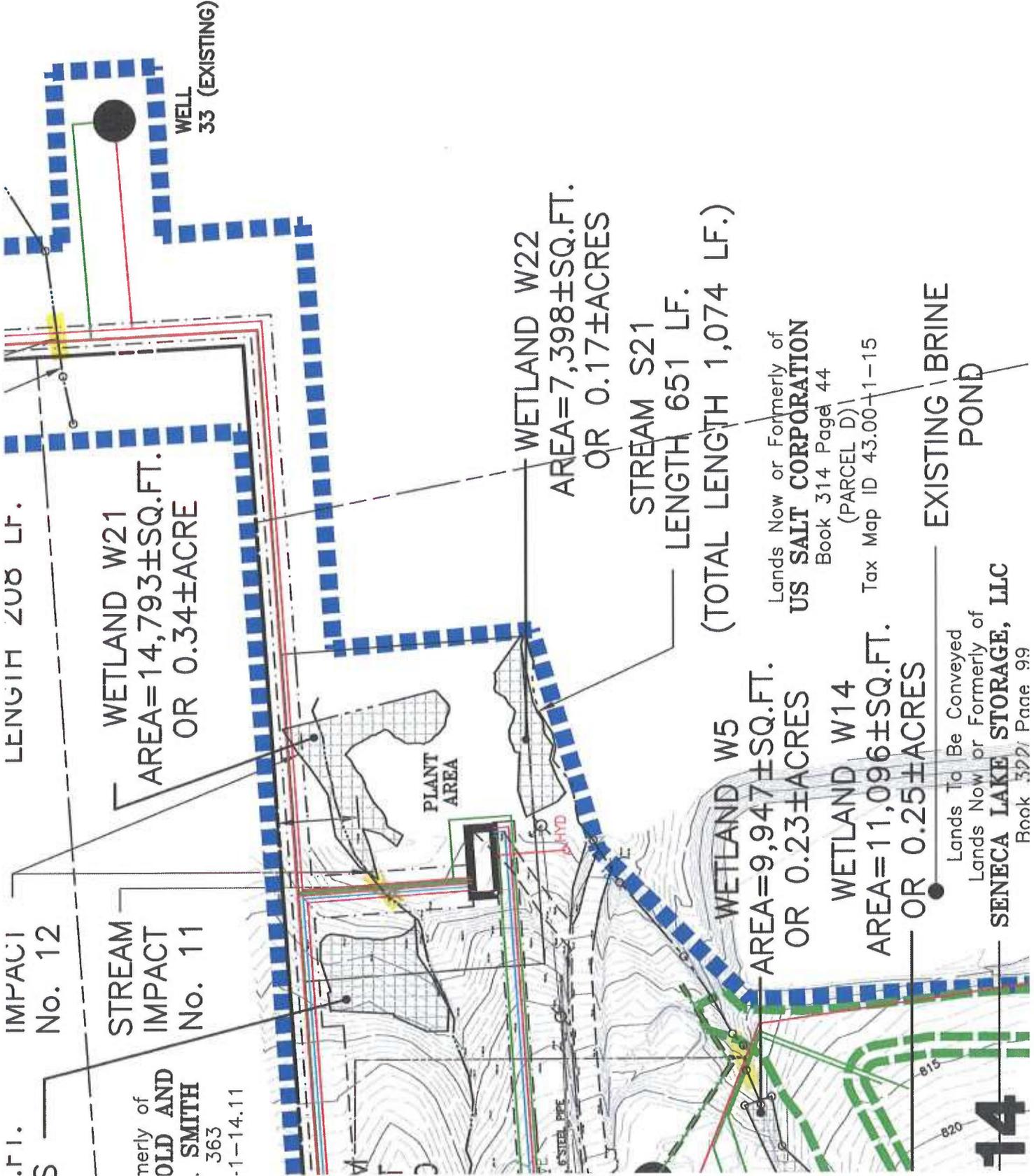
Lands Now or Formerly of US SALT CORPORATION Book 314 Page 44 (PARCEL D) 1 Tax Map ID 43.00-1-15

Lands To Be Conveyed Lands Now or Formerly of SENECA LAKE STORAGE, LLC Book 307 Page 99

EXISTING BRINE POND

WELL 33 (EXISTING)

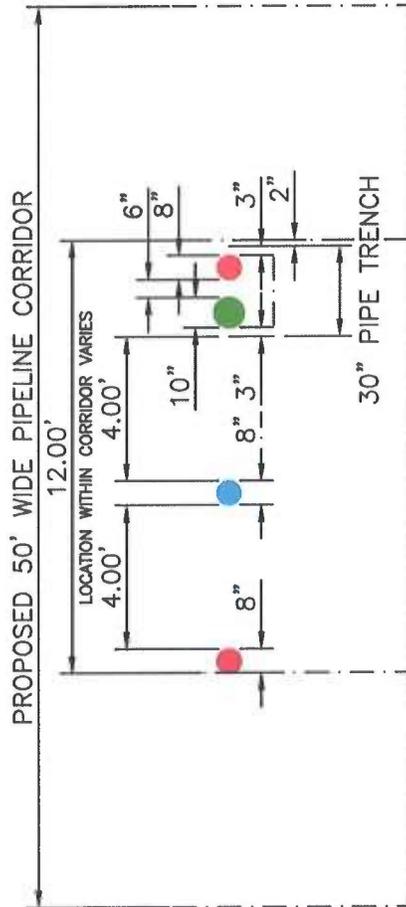
PLANT AREA

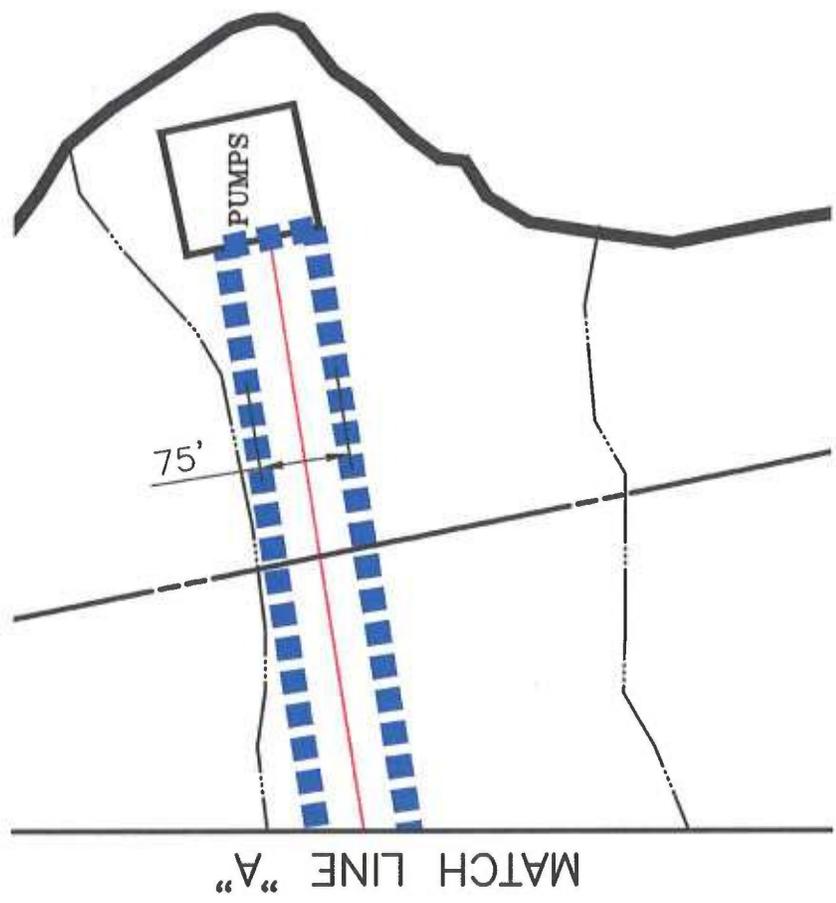
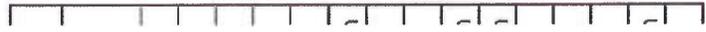


Wetland Impact Chart

Impact No.	Area Affected	Wetland Impact Type		Stream Impact Type	Remarks	
		Permanent	Temporary			
1	Stream S2			211 LF.	Culvert under R.R. siding	
2	Stream S2			25 LF.	Proposed pipelines across stream	
3	Stream S2			89 LF.	Culvert under roadway	
4	Wetland W1	0.02 Acre			Area within West Brine Pond	
5	Wetland W3	0.08 Acre			Area within West Brine Pond	
6	Stream S1				Proposed aerial pipeline crossing over stream	
7	Stream S4			50 LF.	Proposed pipelines across stream	
8	Stream S6			25 LF.	Single pipeline crossing stream	
9	Stream S5				Proposed aerial pipeline crossing over stream	
10	Stream S21				Proposed aerial pipeline crossing over stream	
11	Stream S15			66 LF.	Proposed pipelines across stream	
12	Wetland 21		0.01		Proposed pipelines across wetland	
13	Stream S7			25 LF.	Proposed pipelines across stream	
14	Stream S8				Proposed aerial pipeline crossing over stream	
Total		0.10 Acre	0.01 Acre	300 LF.	191 LF.	Total Wetlands/Streams Impacted

DETAIL "A"
NOT TO SCALE





LINE TYPE LEGEND

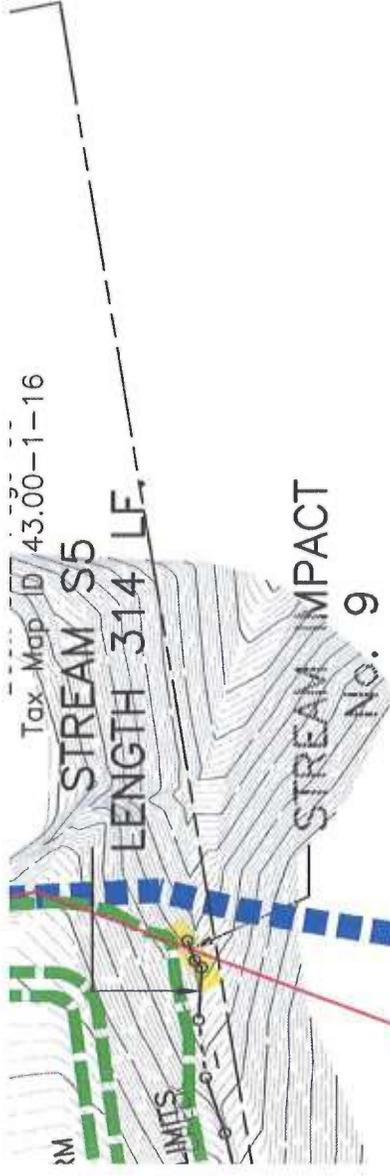
-  STUDY CORRIDOR LIMIT LINE
-  PROPOSED BRINE POND EAST
-  PROPOSED BRINE POND WEST
-  PROPOSED BRINE LINE
-  PROPOSED BUTANE LINE
-  PROPOSED FIRE PROTECTION WATERLINE
-  PROPOSED PROPANE LINE
-  PROPOSED PIPELINE CORRIDOR

DRAINAGE CANAL
 LENGTH 423 LF.
 (TOTAL LENGTH 1,074 LF.)

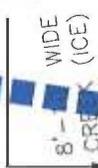
WETLAND W23
 AREA=12,802±SQ.FT.
 OR 0.29±ACRES



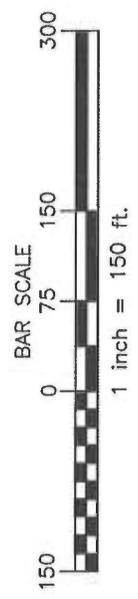
REVISIONS RECORD/DESCRIPTION	
DATE	REVISIONS RECORD/DESCRIPTION
3/2/12	1 REVISED IMPACT CHART AND WELL 58 LOCATI
3/15/12	2 ADDED WELL DESIGNATIONS
	3
	4
	5



STREAM S6
LENGTH 263 LF.
 Lands Now or Formerly of
US SALT CORPORATION
 Book 314 Page 44
 (PARCEL A7 & 8)
 Tax Map ID 43.00-1-12



STREAM IMPACT
No. 8



DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
MMB	JFC		© 2011 C.T. MALE ASSOCIATES
MMB	JFC		
APPROVED: JFC			DRAFTED : MMB
TOWN OF READING			

WETLAND IMPACT EXHIBIT
 PREPARED FOR
FINGER LAKES LGP STORAGE, LLC

CAD DWG. FILE N/

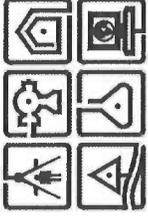
"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".



CHECKED : JFC
PROJ. NO: 08.8696
SCALE : 1" = 150'
DATE : FEB. 1, 2012

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299



SHEET
DWG. N

1 OF 1
0: 12-115

D

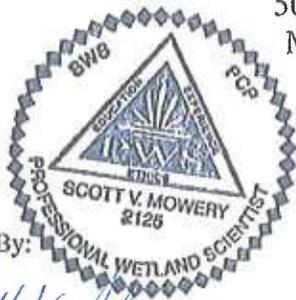
WETLAND IDENTIFICATION &
DELINEATION REPORT
(Addendum II)
FOR
FINGER LAKES STORAGE, LLC -
LIQUID PROPANE GAS STORAGE SYSTEM
PROJECT

Town of Reading
Schuyler County, New York

Prepared for:
Finger Lakes Storage, LLC
800 Robinson Road
Owego NY 13827

Prepared By:
AK Environmental, LLC
5020 Ritter Road, Suite 206
Mechanicsburg, Pa 17055

February 2012



Prepared By:


Scott V. Mowery, PWS #2125
Wetland Scientist

Reviewed By:


Amy Gonzales, PWS #456 CPESC #5627
President

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B.	DESCRIPTION OF THE STUDY AREA	1
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B.	FIELD INVESTIGATIONS	4
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2.	Wetland Hydrology.....	6
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A.	PROFESSIONAL QUALIFICATIONS
B.	WETLAND DETERMINATION DATA FORMS
C.	PHOTOGRAPHS
D.	SOILS DESCRIPTIONS

I. INTRODUCTION

A. PROJECT LOCATION AND DESCRIPTION

This Wetland Identification and Delineation Report has been prepared for Finger Lakes Storage, LLC. The information in this report characterizes the existing wetlands and waterbodies that may be affected by the Finger Lakes Storage, LLC Liquid Propane Gas (LPG) Storage System Project (“Project”). It describes the habitats and major vegetative cover types within the Project area.

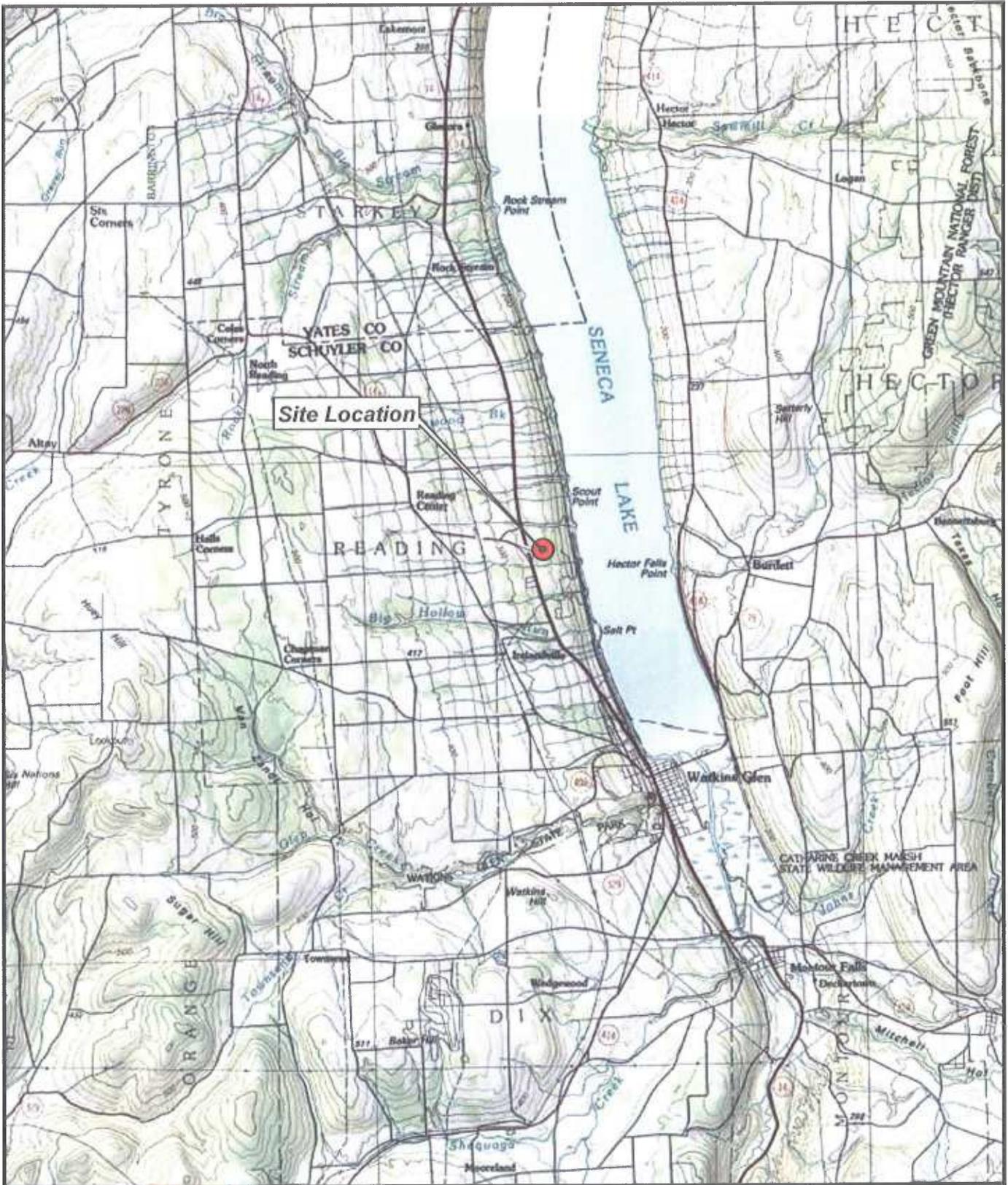
Finger Lakes Storage, LLC, a subsidiary of Inergy Midstream, LLC, is proposing to construct a multi-cycle liquid propane gas (LPG) storage system project, with rail spurs, rail/truck area, a Plant area, pipeline, transmission line, water line, and a brine pond(s). The proposed storage system project is located on U.S. Salt properties located in the Town of Reading, Schuyler County, New York (see Figure 1).

Field investigations were conducted in March, October 25th and 26th, November 15th, December 15th, 2011, and January 11, and 24, 2012 by AK Environmental, LLC (AK). Investigations were conducted to identify and delineate the extent and location of jurisdictional waters and wetlands within the project study area pursuant to the federal Clean Water Act (Sections 401 and 404), the NY Freshwater Wetlands Act of 1975 (Article 24 of the Environmental Conservation Law), and NY navigable waters (Article 15 of the Environmental Conservation Law). The Code of Federal Regulations (33 CFR Parts 320-330) and Part 664 of Title 6 of the NY Code of Rules and Regulations (6 NYCRR 664) define wetlands and watercourses and provide regulatory jurisdictional guidance on water obstructions and encroachments. Jurisdictional wetlands are defined as those areas satisfying the technical criteria contained in the Corps of Engineers Wetlands Delineation Manual (USACE, 1987) and the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (USACE, 2009). Professional qualifications of the individuals involved in the performance of field surveys and preparation of this report are provided in Appendix A.

B. DESCRIPTION OF THE STUDY AREA

The Project study area lies west of Seneca Lake, just north of the Village of Watkins Glen, New York. It is located to the east and west of the New York (NY) State Route 14 and 14A intersection in the Town of Reading, Schuyler County, New York. The Project is to include a rail/truck area, Plant area, brine pond(s), pipeline(s), and transmission line. Figure 1 shows the location of the study area.

The western portion of the study area includes an approximately 37-acre parcel (former Casella Property) located approximately 1,200 feet from the NYS Route 14 and 14A intersection. The central portion of the study area extends from the Casella Property, east, to the larger US Salts facility that borders Seneca Lake. As part of this investigation, the approximately 37-acre Casella property was investigated, as well as, a 150-foot wide corridor along the proposed pipeline right-of-way (ROW) and an approximately 50-acre area on the larger US Salt property to be used for the construction of a brine pond(s).



**Project Location Map
 Finger Lakes LPG Storage, LLC
 Schuyler County, New York**



Figure 1

Date: 5/16/2011 Drawing #: A11024A

AK AK Environmental, LLC
 5020 Ritter Road, Suite 206
 Mechanicsburg, PA 17055

The facility will consist of a rail siding and truck loading area with associated offices and storage tanks at a surface facility located on NYS Route 14A, a plant area (located on US Salt property adjacent to the driveway to its existing brine field) that will transfer gas between the storage caverns and the rail siding and truck loading area, underground storage caverns which will store the gas, and brine storage ponds that will store a significant portion of the brine displaced from the caverns as LPG gas is pumped in. The system will utilize new pipelines that will interconnect all of the sites, in addition to the neighboring Enterprise Products facility (formerly owned by Texas Eastern Products Pipeline Company [“TEPPCO”] and sometimes called the TEPPCO facility) to allow for transfer of LPG and brine.

The Project area lies within the Allegheny Plateau Section of the Appalachian Plateau Physiographic Province of New York. It is a large dissected plateau area divided into the unglaciated Allegheny Plateau and the glaciated Allegheny Plateau. Elevations within the Allegheny Plateau vary greatly. They range from a hundred (100) feet in the glaciated Allegheny Plateau to two to four hundred (200-400) feet in the unglaciated Allegheny Plateau (Wikipedia, 2010).

The habitat in the western portion of the Project area (Casella Property) is dominated by an open fallow agricultural field bordered to the west by early successional shrub species and to the south by a mature upland forest. The fallow field is dominated by an herbaceous layer of yellow rocket (*Barbarea vulgaris*), garlic mustard (*Allaria petiolata*), goldenrod (*Solidago spp.*), Queen Anne’s lace (*Daucus carota*), crown vetch (*Securigera varia*), and various grass species. The shrub layer along the western border of the former Casella Property is dominated by autumn olive (*Elaeagnus umbellata*), honeysuckle (*Lonicera spp.*), multiflora rose (*Rosa multiflora*), and hawthorne (*Crataegus spp.*). The southern portion of the former Casella Property consists of hardwood forest dominated by oak species (*Quercus spp.*) and birch species (*Betula spp.*).

The habitat in the central portion of the Project area includes mature upland forest and an unnamed perennial tributary to Seneca Lake. The upland forest and banks of the perennial channel include a mature overstory of *Quercus spp.*, tulip tree (*Liriodendron tulipifera*), and hickories (*Carya spp.*). The sapling/shrub layer includes common privet (*Ligustrum vulgare*), *Lonicera spp.*, and *R. multiflora*.

The habitat in the eastern portion of the Project area (US Salt Property) is typically dominated by a mix of early successional shrub species and open, fallow field clearings. The remainder of the US Salt Property within the study area appears to have been historically cleared of trees for access roads, existing pipelines, or other past property improvements. The northwestern portion of the US Salt Property in the study area, and the location of a portion of the brine pond, includes an actively mowed hay field.

The shrub layer throughout the US Salt Property portion of the study area is dominated by gray dogwood (*Cornus racemosa*), *E. umbellata*, *Lonicera spp.*, *R. multiflora*, and *Crataegus spp.* The herbaceous layer throughout the US Salt Property portion of the study area is dominated by *Solidago spp.*, *D. carota*, garlic mustard (*Allaria petiolata*), goldenrod (*Solidago spp.*), Queen

Anne's lace (*Daucus carota*), *S. varia*, common ragweed (*Ambrosia artemisifolia*), common mullein (*Verbascum thapsus*), and various grass species.

This entire Project study area slopes gradually from west to east towards Seneca Lake. There are two perennial stream channels crossed by the proposed Project. Other hydrologic contributors to the Project area include runoff from upgradient properties and the historic anthropogenic drainage patterns associated with the NY State Route 14 and 14A corridors, which bisect the Project area south to north.

II. METHODOLOGY

A. RECORDS RESEARCH

Prior to performing field surveys, AK reviewed the 7.5' USGS topographic quadrangles, the National Wetlands Inventory (NWI) web-based Interactive Mapper, the Web Soil Survey, and the New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper to identify areas with topographical configurations or mapped wetlands and/or hydric soils which may suggest the presence of wetlands. Figure 1 shows the location of the Project on the USGS topographic maps, Figure 2 shows NWI identified resources, Figure 4 details the location on the Soil Survey, and Figure 3 shows the NYSDEC Freshwater Wetlands in the Project area.

B. FIELD INVESTIGATIONS

Investigations were conducted to verify the mappings, to identify land use and plant community types within the Project area, and to determine the presence/absence of wetlands and waterbodies.

Water and Wetland Habitat

All plant community types were investigated for wetlands and waters of the U.S. Wetlands and waters were identified as herbaceous, scrub/shrub, or forested wetlands, perennial streams, intermittent streams, or ephemeral channels (stormwater ditches, seeps). Perennial streams and intermittent streams are considered waters of the U.S. Streams are considered perennial if they contain base flow throughout the year which is supported with groundwater. Intermittent streams are those which contain base flow at least a portion of the year which is supported with groundwater. Ephemeral channels, stormwater ditches and seeps are sometimes considered waters of the U.S. In ephemeral channels and stormwater channels, the primary sources of hydrology are snow and rain precipitation. Stormwater channels are manmade features specifically constructed for the conveyance of surface or groundwater from upslope areas. Seeps may discharge groundwater or surface water. These channels may be considered waters of the U.S. if they exhibit an Ordinary High Water Mark (OHWM), are tributary to jurisdictional waters or if they are built in waters of the U.S. or wetlands. The OHWM is that line on the shore or stream bank established by the fluctuations of water and typically characterized by a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial

vegetation, or the presence of litter and debris (USC Title 33). Stormwater channels are also considered waters of the U.S. in the absence of an OHWM, if the channel connects two wetlands or waters of the U.S. or are tributary to jurisdictional waters. Photographs of the wetland and waterbodies are provided in Appendix C.

Wetlands were delineated in the field by AK in accordance with the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Northeastern Forests Subregion (LRR R)* (USACE, 2009). The on-site field investigation involved inspection of the study area to identify areas that satisfy the three wetland criteria: a predominance of hydrophytic (wetland) vegetation, wetland hydrology, and hydric soils. In order to make a determination that an area is a wetland, the Interim Regional Supplement requires that, under natural (typical) conditions, a minimum of one primary wetland indicator be confirmed for each of the three wetland parameters. A failure to confirm all three parameters must result in a finding that the area under evaluation is a non-wetland under typical conditions.

The three wetland parameters are discussed further below:

1. Hydrophytic Vegetation

Vegetation on the property was initially characterized to plant community type. Within a plant community, sample plots were established. When possible, 30-foot radius circular sample plots for the tree layer, 15-foot radius circular plots for shrub and vine layers and 5-foot radius circular plots for the herbaceous layers were used. Larger or smaller plot sizes were used as conditions dictated. Only dominant plant species were determined and recorded on Wetland Determination Data Forms. Dominant plant species were then assigned a wetland indicator classification according to the *U.S. Fish and Wildlife National List of Plant Species that Occur in Wetlands* (Reed, 1988). The indicator status is based on a species frequency of occurrence in wetlands. The wetland indicator rating and the corresponding frequency of occurrence are explained as follows:

OBL	Obligate wetland	Plants that occur almost always (more than 99% of the time) in wetlands under natural conditions.
FACW	Facultative wetland	Plants that occur usually (67%-99% of the time) in wetlands.
FAC	Facultative	Plants with a similar likelihood (34%-66% of the time) of occurring in both wetlands and non-wetlands.
FACU	Facultative upland	Plants that occur sometimes (1%-33% of the time) in wetlands, but occur more often in non-wetlands.
UPL	Obligate upland	Plants that occur rarely (less than 1% of the time) under natural conditions in wetlands.
NL	Not Listed	Indicates plants that are generally only found in uplands.

When more than 50 percent of the dominant species in a plant community were determined to have an indicator status of OBL, FACW, and/or FAC, hydrophytic vegetation was determined to be present.

Plant species and indicator status are recorded on the data forms provided in Appendix B.

2. Wetland Hydrology

In each plant community, indicators of wetland hydrology and hydric soils were investigated. Wetland hydrology means that water is present at or above the surface for a prolonged period (in consecutive days) during the growing season. Prolonged duration is inferred through direct observation of primary indicators of wetland hydrology, including inundation or saturation at the surface, recorded stream gage data (where available), water marks or sediment deposits on objects and vegetation (i.e., water-stained leaves), water-carried debris drift lines and wetland drainage patterns. Some vegetation physiological adaptations, such as tree buttressing, shallow rooting, and multiple stems, may also indicate wetland hydrology. Any observed wetland hydrologic field indicators were then noted on the data forms (see Appendix B). Factors such as the depth of water or the depth to free water in the soil excavation pit were noted.

3. Hydric Soils

In plant communities dominated by OBL plant species, generally with an abrupt boundary, and with no evidence of recent hydrologic alteration, hydric soils were assumed to be present in accordance with the Delineation Manual and Draft Interim Regional Supplement. In all other circumstances, soils were investigated in the field using a soil probe and/or sharpshooter shovel. The exposed soils were divided into distinct layers on the basis of color, mottling, and structural and textural differences. In accordance with the Manual and Supplement, direct observations for hydric soil field indicators were usually made within 50 cm (20 inches) of the surface. In problem areas, such as where the soils were disturbed, the soils were evaluated for hydric indicators to a depth of 61 cm (24 inches) where feasible. Color (chroma) was determined by comparison with standard soil color chips contained in the *Munsell Soil Color Charts* (Gretag Macbeth, 2000).

Since hydric soils are saturated to the surface for periods of sufficient duration during the growing season to create oxygen-free conditions in the upper layer, indicators of oxygen-free conditions develop. Observations were then made for primary field indicators of these conditions, including gleying, chromas of 1 or less in unmottled soils, chromas of 2 or less in mottled soils, a hydrogen sulfide odor, mineral concretions and depletions in upper layers, high organic material content in sandy soils, organic streaking in sandy soils, and/or the observance of an aquic or peraquic moisture regime. Soil characteristics of each layer and any hydrologic indicators were recorded on the data forms provided in Appendix B. Soils descriptions are included in Appendix D.

In addition to the above field indicators, soils series which have been classified as hydric according to *Hydric Soils of the United States* (National Technical Committee on Hydric Soils, 1985) were also deemed to be hydric when the field sampled soil conformed to that of the profile description of the mapping unit provided in the Web Soil Survey.

Sampling was conducted along the gradient between uplands and wetlands to identify the location of the wetland boundary based upon the above criteria. One sample plot was placed in a representative wetland area and adjacent upland for the collection of data pertinent to assessment of the mandatory technical criteria. Data were recorded on Wetland Determination Data Forms appropriate for application of the Draft Interim Regional Supplement. Copies of the data forms are included in Appendix B. Sample points (data points) were selected at locations along wetland boundaries to identify important, defining characteristics and to resolve obscure transitions between wetlands and uplands.

C. WETLAND BOUNDARY IDENTIFICATION

Sample plots were observed to determine the wetland/upland boundary. Representative observations were recorded as data points. The wetland/upland boundary was marked in the field using pink surveyors ribbon tied to live, woody vegetation nearest the boundary. The flags were spaced at appropriate turning points, or at approximately 15 meter (50 foot) intervals for long, straight stretches, and labeled sequentially using the wetland number as the prefix. Locations of all wetland flags on the project site were determined by ground level surveys.

III. RESULTS OF INVESTIGATION

A. RECORDS RESEARCH

USGS Topographic Maps

The USGS Reading Center quadrangle indicates two blue line streams. These blue line streams are both unnamed tributaries to Seneca Lake. The Project study area is located within the Seneca-Oneida-Oswego River Basin. Figure 1 shows the location of the Project on a USGS map.

National Wetland Inventory (NWI) Maps

Review of the National Wetland Inventory map (NWI) indicated two freshwater ponds within the Project study area, but no other palustrine or riverine wetlands within the Project area. The NWI mapping is provided in Figure 2.

NYSDEC Freshwater Wetland Maps

Review of the NYSDEC Freshwater Wetland Maps indicated no State level wetlands within the Project area. A map that includes NYSDEC freshwater wetlands is provided in Figure 3.



U.S. Fish and Wildlife Service

National Wetlands Inventory

Figure 2 - NWI Map

Nov 2, 2011



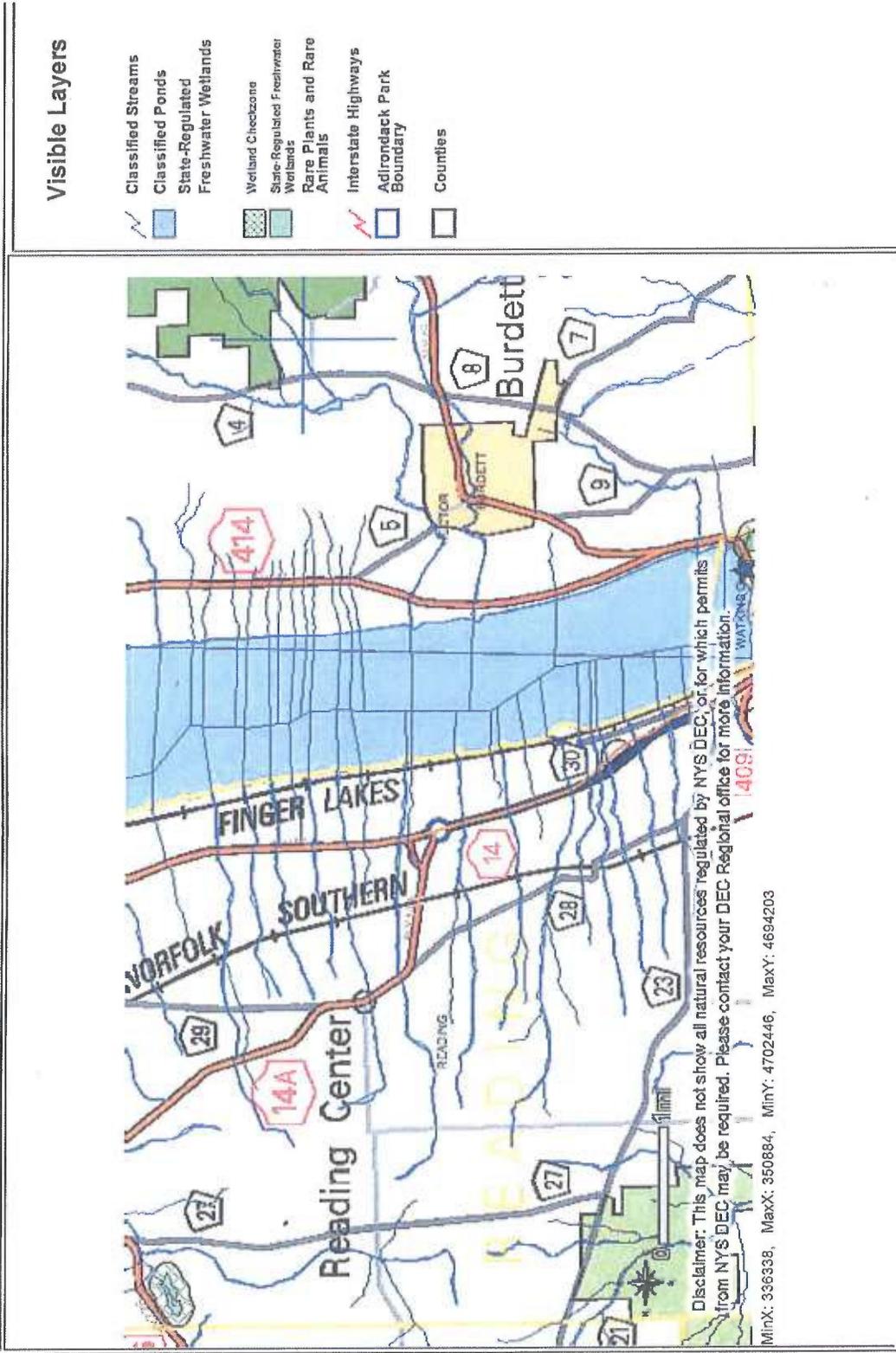
Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Figure 3 - NY State Freshwater Wetlands Map



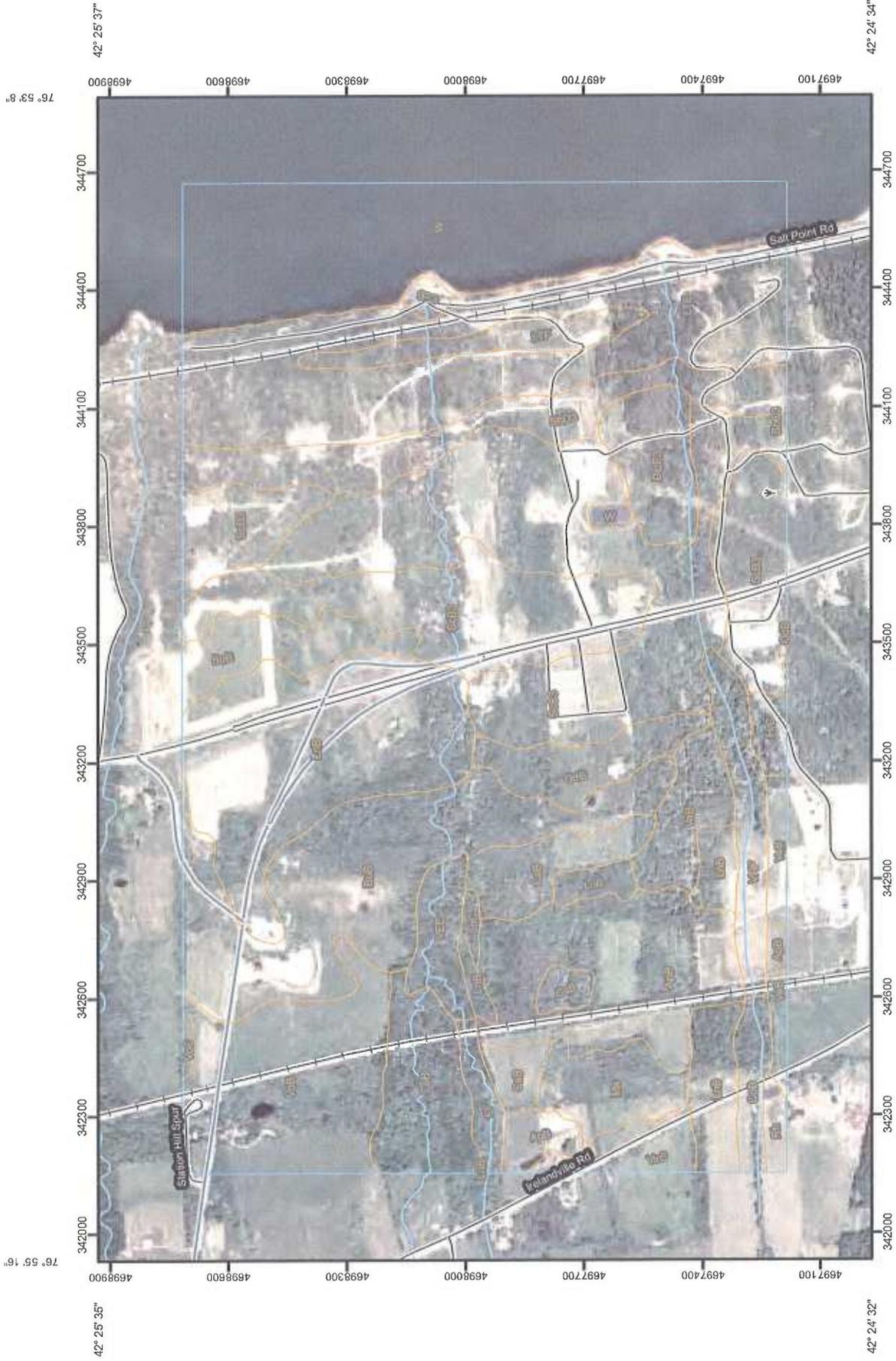
Soil Survey

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Service Web Soil Survey, there are seven soil series (containing nine soil units) identified in the Project area. Table 1 includes the nine soils units and their physical characteristics/limitations. The soil units include the Burdett silt loam (BuB), 3 to 8 percent slopes, Conesus silt loam (CsB), 3 to 8 percent slopes, Lansing gravelly silt loam (LnB), 3 to 8 percent slopes, Odessa silt loam, 3 to 8 percent slopes, Schoharie silty clay loam (ScB3) 3 to 8 percent slopes, 8 to 15 percent slopes (ScC3) and 15 to 25 percent slopes (ScD3), Valois soils (VEE), steep, and the Volusia channery silt loam (VoB), 3 to 8 percent slopes. The Soil Survey mapping of the Project Area is shown in Figure 4.

Soil Code	Soil Name	Hydric	Depth to Bedrock (inches)	Prime Farmland	Depth to Water Table (inches)
BuB	Burdett silt loam, 3 to 8 percent slopes	No	>78	Yes, if drained	12
CsB	Conesus silt loam, 3 to 8 percent slopes	No	>78	Yes	21
LnB	Lansing gravelly silt loam, 3 to 8 percent slopes	No	>78	Yes	>78
OdB	Odessa silt loam, 3 to 8 percent slopes	No	>78	Yes, if drained	12
ScB3	Schoharie silty clay loam, 3 to 8 percent slopes, severely eroded	No	>78	Statewide	27
ScC3	Schoharie silty clay loam, 8 to 15 percent slopes, severely eroded	No	>78	No	27
ScD3	Schoharie silty clay loam, 15 to 25 percent slopes, severely eroded	No	>78	No	27
VEE	Valois soils, steep	No	>78	No	>78
VoB	Volusia channery silt loam, 3 to 8 percent slopes	No	>78	Statewide	12

The BuB and OdB units are listed as Prime Farmland, if drained, while CsB and LnB are listed as Prime Farmland. ScB3 and VoB are listed as Farmland of Statewide Importance, while ScC3, ScD3, and VEE are not listed as being Prime Farmland. The BuB, OdB, and VoB units have a water table at approximately 12 inches below ground surface (bgs), while the CSB unit and Schoharie series have water table depths of approximately 21 and 27 inches bgs, respectively. The LnB and VEE units have water tables of greater than (>) 78 inches bgs. There were no soils identified on the hydric soils list. Depth to bedrock for all soils is greater than (>) 78 inches. Soil descriptions are included in Appendix D.

Soil Map—Sch. County, New York



Map Scale: 1:14,000 if printed on A size (8.5" x 11") sheet.



B. IDENTIFIED FEATURES

Palustrine Wetland

There were twenty (20) palustrine wetlands, W1-W16 and W20-W23, identified within the Project study area. The data points were positive for vegetation; soils and hydrology (see data forms in Appendix B and photos in Appendix C). Table 2 includes the wetlands identified in the Project area. Wetland mapping is included in Figure 5.

Photo No.	Wetland Designation	Wetland Classification*	Size (sq. feet)	Comments
2	W1	PEM	884	Depression in fallow field
3	W2	PEM/PSS	24,534	Outfall to S2
4	W3	POW	3,345	Open water pond
7	W4	PFO/PSS	4,977	Forested seep/spring
11	W5	PEM	9,947	Vegetated swale adjacent to equipment yard
16	W6	PEM	3,940	Depression on old well pad
21	W7	PSS	94,541	Scrub/Shrub area between S11 and S13
22	W8	PEM	3,003	Depression in old access road and beginning of S12
23 and 24	W9	PSS	17,499	Adjacent fringe to S11
25	W10	PEM	4,855	Downgradient of an outfall pipe under NY State Route 14
27	W11	PSS	31,778	Adjacent fringe to S13
28	W12	PEM	7,329	Adjacent fringe to S14
31	W13	PSS	14,955	Depressional swale in fallow field
30	W14	PEM/PSS	11,096	Adjacent fringe to S15
32	W15	PEM	21,811	Depressional swale in clearing
40	W16	PEM	167	Headwater fringe to S16.
42	W20	PSS	12,463	Adjacent to existing equip. pad and S15.
43	W21	PEM	14,793	Located on existing equip. pad and adjacent to S15.
44	W22	PEM	7,398	Adjacent to S21.
45	W23	PEM	12,802	Adjacent to S5 and State Route 14

* PEM = Palustrine Emergent Wetland, PFO = Palustrine Forested Wetland, POW = Palustrine Open Water Wetland (Cowardin et al, 1979), PSS = Palustrine Scrub/Shrub

Wetland W1 is a small approximately 880 square foot/0.02-acre Palustrine Emergent wetland (PEM). The wetland is fed by surface runoff from the surrounding area where it settles in a shallow depression along a field edge. It is an isolated wetland with no connectivity to another regulated waterbody. W1 is dominated by sensitive fern (*Onoclea sensibilis*) and sphagnum peat moss. Soils within W1 include a dark gray (10YR 4/1) silty loam within 4 inches of the surface, and a gray (10YR 5/1) silty clay loam with brownish yellow (10YR 6/8) mottles to approximately 12 inches below ground surface (bgs).

Wetland W2 is an approximately 24,500 square foot/0.62-acre transitional wetland from PEM to Palustrine Scrub-Shrub wetland (PSS). It appears on the NWI map as a freshwater pond, however, its' character has changed through the years. The depressional wetland appears to have been

created via the development of an adjoining property that cut off or diked water from a swale (S2), which bisects this portion of the Project area, west to east. W2 is dominated by red-osier dogwood (*Cornus sericea*) and reed canary grass (*Phalaris arundinacea*). Soils are characterized by a very dark gray (10 YR 3/2) silty loam within 4 inches of the soil surface, and a dark grayish brown (10YR 4/2) silty clay loam with dark yellowish brown (10YR 4/6) mottles approximately 10 inches below ground surface.

A small pond, palustrine open water wetland (POW) W3, was also identified in the eastern side of the former Casella Property. It appears on the NWI map as a freshwater pond. W3 is approximately 3,300 square feet/0.08-acres in size.

Wetland W4 is an approximately 5,000 square foot/0.11-acre PSS/Palustrine Forested (PFO) wetland that occurs along the pipeline route from the former Casella Property to the US Salt property. It is located at the base of a gentle slope and originates due to the surfacing of a spring/seep. It is the headwater area of S3. W4 is dominated by red maple (*Acer rubrum*) in the overstory, *L. vulgare* and *R. multiflora* in the sapling/shrub layer, and an herbaceous layer of giant goldenrod (*Solidago gigantea*), sensitive fern (*Onoclea sensibilis*), and sphagnum moss. Soils are characterized by a dark gray (10YR 4/1) silt loam with dark brown (7.5YR 3/4) mottles to approximately 14 inches, followed by dark grayish brown (10YR 4/2) silty clay loam with dark gray (10YR 4/1) and dark brown (7.5YR 3/4) mottles to a depth of approximately 24 inches bgs.

Wetland W5 is an approximately 10,000 square foot/0.23-acre PEM wetland adjacent a gravel access road and equipment storage area. The wetland is associated with a drainage swale located outside of the study area. It is dominated by an herbaceous layer of *P. arundinacea*. Soils are characterized by a very dark gray (10YR 3/1) silt loam to a depth of six inches, followed by a very dark gray (10YR 3/1) silty clay loam with dark brown (7.5YR 3/4) mottles to a depth of approximately 20 inches bgs.

Wetland W6 is an approximately 3,950 square foot/0.09-acre PEM wetland located on an old well pad. The wetland is situated in a slight depression and includes no observable soil stratification to at least 16 inches bgs. The soil from 0 to 16 inches is a dark grayish brown (10YR 4/2) gravelly silt loam with dark gray (10YR 4/1) and dark yellowish brown (10YR 4/6) mottles. The vegetative community is dominated by an herbaceous layer of narrow leaved cattail (*Typha angustifolia*) and common reed (*Phragmites australis*). W6 receives its hydrology from upslope runoff via an ephemeral stream (S9), which is discussed in the following section.

Wetlands W7, W9, and W11 are approximately 94,500 square foot/2.17-acre, 17,500 square foot/0.4-acre, and 31,700 square foot/0.73-acre, respectively. They are associated with, or adjacent to, streams S11, S13, and S14. W7 is located on a gentle slope between S11 and S13. W9 is a sapling/scrub and emergent fringe associated with the upper portions of S11. W11 is a sapling/scrub dominated community situated between S13 and S14. They are dominated by *P. deltoides* trees, *Prunus sp.* saplings, and glossy buckthorn (*Rhamnus frangula*) shrubs. The scattered understory, where present, is dominated by *E. graminifolia* and *O. sensibilis*. They receive their hydrology via upslope runoff and the intermittent and ephemeral flows of their respective streams.

Wetland W8 is an approximately 3,000 square foot/0.07-acre PEM wetland located on an old access road. The wetland is situated in a slight depression and is the headwater area of stream S12. The vegetative community is dominated by and herbaceous layer of *Polygonum sp.*, *Carex spp.*, and *Solidago sp.* Soils are characterized by a dark gray (10YR 4/1) silt loam to a depth of three inches, followed by a dark gray (10YR 4/1) silty clay loam with dark yellowish brown (10YR 4/6) mottles to a depth of approximately 14 inches bgs. W8 receives its hydrology from upslope runoff and/or groundwater.

Wetland W10 is an approximately 4,800 square foot/0.11-acre PEM community fed by a drainage pipe and runoff from U.S. Route 14 to the west. W10 is dominated by souring rush horsetail (*Equisetum hyemale*) and *T. angustifolia*. Soils within W10 include a dark grayish brown (10YR 4/2) silty clay loam with dark yellowish brown (10YR 4/6) mottles to approximately 16 inches bgs.

Wetland W12 is an approximately 7,300 square foot/0.17-acre PEM wetland associated with an intermittent stream (S14). W12 is within the channel of S14 and is dominated by an herbaceous layer of *T. angustifolia*. Soils are characterized by a dark gray (10YR 4/1) silt loam with dark yellowish brown (10YR 4/6) mottles to approximately six inches bgs. Soils beyond six inches include streambed gravel and were met with refusal.

Wetland W13 is an approximately 15,000 square foot/0.34-acre PSS wetland within a depressional swale. W13 is within the proposed brine pond area and is dominated by a shrub layer of *R. frangula*, hawthorn (*Crataegus sp.*), and gray dogwood (*Cornus racemosa*). Soils are characterized by a dark grayish brown (10YR 4/2) silt loam with dark yellowish brown (10YR 4/6) mottles to approximately eight inches, followed by a dark gray (10YR 4/1) silty clay loam with mottles to a depth of sixteen inches bgs.

Wetlands W14 and W15 are approximately 11,000 and 22,000 square feet and occur in clearing within a wooded setting. W14 is a fringe PEM/PSS wetland adjacent to S15, while W15 is a PEM depressional swale located approximately 100 feet north of W14. Both W14 and W15 receive upslope runoff from S.R. 14 to the west. W14 also appears to receive hydrology from the channel of S15. Soils within W14 and W15 are dominated by very dark gray (10YR 3/1) silt loam to approximately four inches, followed by a dark grayish brown (10YR 4/2) silty clay loam with mottles to approximately ten inches bgs. The vegetative covers within W14 and W15 are dominated by moneywort (*Lysimachia nummularia*), blue vervain (*Verbena hastata*), New York aster (*Symphotrichum novi-belgii*), buttercup (*Ranunculus sp.*), *Carex spp.*, and *Solidago sp.*

Wetland W16 is an approximately 175-square foot, small depressional, PEM wetland at the headwater area of S16. W16 is dominated by bulrush (*Scirpus sp.*), *Carex spp.*, grasses, and soft rush (*Juncus effusus*). Soils in W16 were saturated at the time of inspection and include a dark gray (10YR 4/1) layer with redox concentrations and oxidized rhizospheres in the upper eight inches.

Wetland W20 is an approximately 12,500 square foot PSS wetland adjacent to S15. W20 appears

to receive hydrology from upslope runoff, as well as, shallow ground water. Soils within W20 are dominated by a dark grayish brown (10YR 4/2) silt loam to three inches, followed by dark grayish brown (10YR 4/2) with mottles to approximately six inches and a gray (10YR 5/1) silty clay loam with mottles to a depth of 13 inches bgs. The vegetative cover within W20 is dominated by *R. frangula*, New York aster (*Symphotrichum novi-belgii*), buttercup (*Ranunculus sp.*), *Carex spp.*, and *Solidago sp.*

Wetlands W21 and W22 are PEM features that are approximately 14,750 and 7,400 square feet, respectively, and occur on and adjacent to an existing equipment pad. W21 and W22 are also fringe areas adjacent to streams S15 and S21. Soils in both of these wetlands have been disturbed and currently consist of a dark grayish brown (10YR 4/2) gravelly silt loam with dark gray (10YR 4/1) to approximately six inches. The vegetative community within W21 is dominated by an herbaceous layer of *T. angustifolia*, *Carex sp.*, and *P. australis*, while W22 includes *V. hastata*, *S. novi-belgii*, *Ranunculus sp.*, *Carex sp.*, and *Solidago sp.*

Wetland W23 is an approximately 13,000 square foot PEM wetland adjacent to S5, near the State Route 14 corridor. W23 appears to receive hydrology from upslope runoff, as well as, shallow ground water. The soil within W23 includes a black (10YR 2/1) to approximately six inches, followed by a dark grayish brown (10YR 4/2) silt clay loam with mottles to approximately sixteen inches bgs. The vegetative cover within W23 is dominated by *T. angustifolia*, *P. arundinacea*, *Carex spp.*, and *R. multiflora*.

Waters of the United States

There were eighteen (18) perennial, intermittent, or ephemeral crossing across sixteen (16) separate channels within the proposed Project study area. Table 3 includes the waterbodies identified in the Project area. Stream/waterbody mapping is included in Figure 5.

Photo No.	Waterbody Crossing Designation	Waterbody Type	Bank-to-Bank Width (feet)	Comments
6	S1	Perennial	20	UNT to Seneca Lake
5	S2	Ephemeral	1	Drains to W2
8	S3	Ephemeral	1	Drains to W4
9	S4	Intermittent	2	UNT to Seneca Lake
12	S5	Intermittent	3	UNT to Seneca Lake
13	S6	Perennial	15	UNT to Seneca Lake
14	S7	Intermittent	20	Same as S4
15	S8	Perennial	50	Same as S1
17	S9	Ephemeral	1	Drains to W6
18	S10	Ephemeral	1	Drains to S11
19	S11	Intermittent	2	UNT to Seneca Lake
20	S12	Intermittent	1	Drains to S11
26	S13	Intermittent	3	UNT to Seneca Lake
29	S14	Intermittent	1	UNT to Seneca Lake

Table 3. Waterbodies Identified in the Project Area

Photo No.	Waterbody Crossing Designation	Waterbody Type	Bank-to-Bank Width (feet)	Comments
10	S15	Intermittent	2	UNT to Seneca Lake
38	S16	Intermittent	6	UNT to Seneca Lake
39	S17	Ephemeral	6	Drains to S16
41	S21	Intermittent	2	UNT to Seneca Lake

UNT = Unnamed Tributary

Stream S1/S8 appears as a blue line on USGS and NWI maps. They are the same stream channel, crossed two times at two different locations. The bedrock bottom stream originates off site and west where it is piped under railroad tracks and allowed to continue flowing east to Seneca Lake. The OHWM within the stream is approximately 8 feet wide with a width from bank to bank being approximately 20 feet. The stream is surrounded by hardwood forests comprised of *Quercus spp.*, *L. tulipifera*, and *Carya spp.*

Stream S2 carries ephemeral flow in the northwestern portion of the study area. It originates offsite to the west, is piped under the railroad tracks, and continues flowing until it disperses into W2. S2 does not continuously display bed and banks features or an OHWM, but it displays connectivity to a wetland.

Stream S3 is an ephemeral channel that originates via a spring/seep that surfaces at the base of a forested ridgeline. S3 includes a black plastic pipe that appears to convey water downslope and offsite. S3 is approximately one foot wide and provides hydrology to W4. S3 does include a defined bed and bank for the first approximately 10 feet prior to its dispersion into W4. The bed of S3 included a leaf litter bottom and was conveying no observable flow at the time of this investigation.

Stream S4/S7 are also crossed two times at two different locations. The S4 crossing, higher in the drainage basin, appears to convey intermittent flow as the channel is only slightly incised and includes a mucky substrate. The channel width, bank to bank, of S4 is only two feet. The S7 crossing, on the other hand, is incised by approximately eight feet. The S7 channel, which includes a cobble substrate, contains considerable woody debris. The banks of S7 are heavily vegetated with *R. multiflora* and *L. vulgare*. S4/S7 traverse the study area and empty to Seneca Lake.

Stream S5 is an intermittent channel that flows west to east across the southern portion of the study area. S5 is approximately three feet wide and includes a gravel and cobble substrate. The banks of S5 are approximately two feet high and densely vegetated by *L. vulgare* and *Solidago spp.*

Stream S6 appears as a blue line on the USGS map. The boulder and cobble bottom stream originates off site and west where it is piped under NY State Route 14 and allowed to continue flowing east to Seneca Lake. The OHWM within the stream is approximately 8 feet wide with a

width from bank to bank being approximately 15 feet. The stream is surrounded by hardwood forests comprised of *Quercus spp.*, *L. tulipifera*, and *Carya spp.*

Stream S9 is a short ephemeral channel that conveys upslope runoff to W6. It is approximately a foot wide and 50 feet long. The banks of S9 are less than a foot high and the bed is comprised of gravel.

Stream S10 is an ephemeral roadside channel that conveys upslope runoff to S11. It is approximately a foot wide and 465 feet long. The banks of S10 range from less than a foot high to a maximum left bank height of approximately six feet. The bed of S10 is comprised of gravel and scattered *T. angustifolia*. S10 converges with S11 east of the proposed area of disturbance.

Stream S11 is an intermittent channel that flows west to east across the brine pond portion of the study area. S11 enters the study area via a culvert pipe under NY State Route 14. S11 is approximately two feet wide and includes a gravel and cobble substrate. The banks of S11 are approximately two feet high and densely vegetated by *L. vulgare*, *Solidago spp.*, and *A. melanocarpa*. The stream exists within the study area for approximately 605 linear feet. The majority of S11, through the study area is bordered by W7 and/or W9.

Stream S12 is a short intermittent channel that conveys upslope runoff and hydrology from W8 to S11. It is approximately a foot wide and 173 feet long. The banks of S12 are less than a foot high and the bed is comprised of gravel. Much like S11, S12 is bordered by a dense layer of *L. vulgare*, *Solidago spp.*, and *A. melanocarpa*.

Stream S13 begins, within the study area at the downgradient side of W10. The hydrology for W10 and S13 enters the study area via a culvert pipe under NY State Route 14. Stream S13 is an intermittent channel that flows west to east across the brine pond portion of the study area. S13 is approximately three feet wide and includes a gravel and cobble substrate. The banks of S13 are approximately two feet high and densely vegetated by *L. vulgare*, *Solidago spp.*, *Prunus sp.*, and *A. melanocarpa*. The stream exists within the study area for approximately 1,005 linear feet. The majority of S13, through the study area is bordered by W7 and/or W11.

Stream S14 begins, within the study area at the downgradient side of W12. The hydrology for W12 and S14 enters the study area via a culvert pipe under NY State Route 14. Stream S14 is an intermittent channel that flows west to east across the brine pond portion of the study area. S14 is approximately a foot wide and includes a gravel substrate. The banks of S14 are approximately two feet high and densely vegetated by *Solidago spp.* and *P. arundinacea*. The stream exists within the study area for approximately 1,075 linear feet.

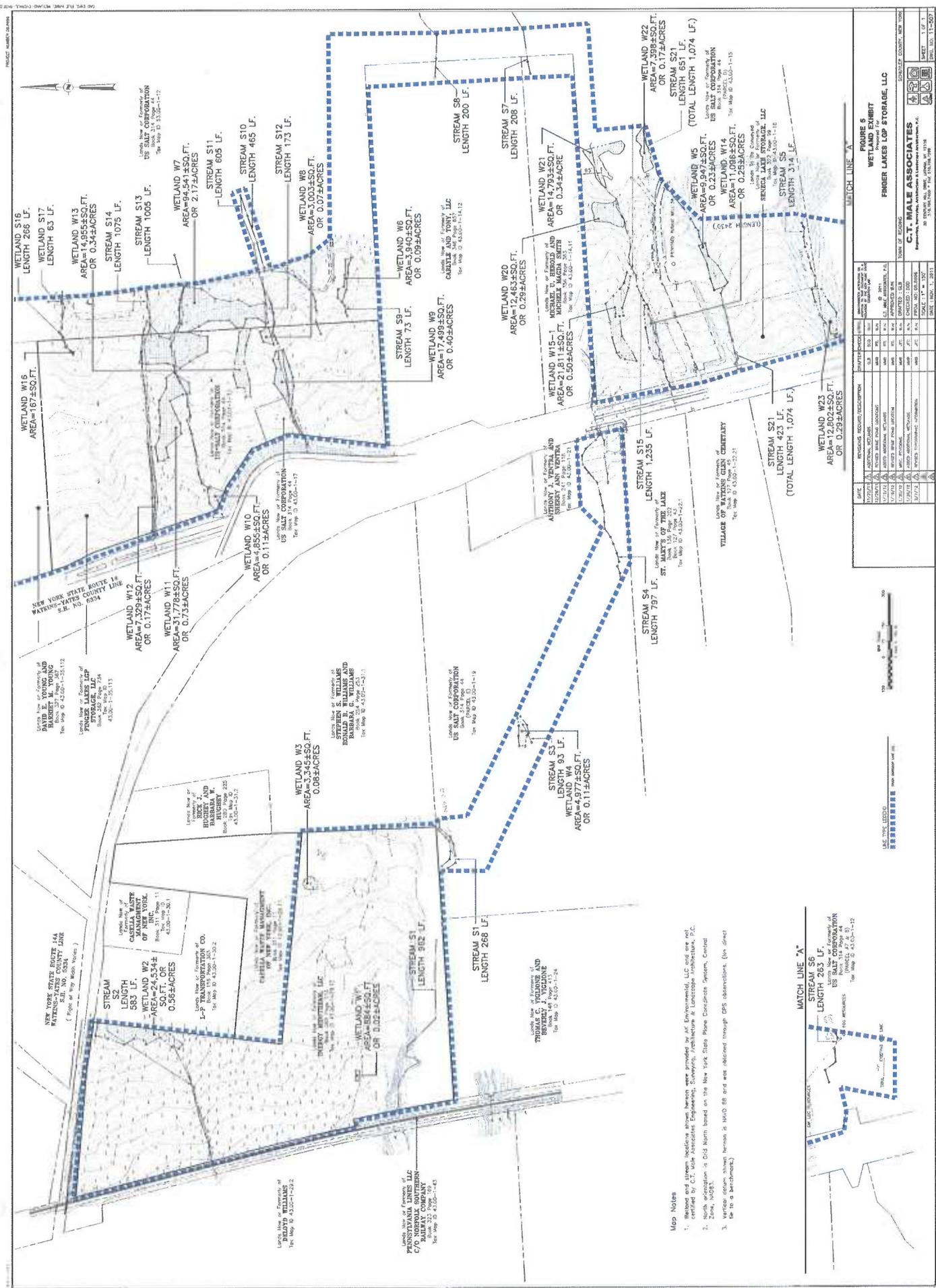
Stream S15 is an intermittent channel that flows west to east across the study area and parallel to the Seneca Lake compressor station access road. S15 is approximately two feet wide and includes a gravel substrate. The banks of S15 are less than a foot and densely vegetated by *L. vulgare*, *Solidago spp.*, and *A. melanocarpa*. The stream exists within the study area for approximately 1,200 linear feet.

Stream S16 is an intermittent stream that originates at W16. It flows east, approximately 250 linear feet, through the study corridor. It has a bank to bank width of approximately 6 feet. The stream continues east and off the study corridor via a culvert pipe beneath an existing dirt access

road.

Stream S17 is a short drainage channel along the edge of an existing access road that carries ephemeral flow towards S16. The width of S17, from bank to bank, is approximately 6 feet.

Stream S21 is an intermittent stream that flows east and under the main access road to the Seneca Compressor Station. It flows approximately 1,000 linear feet through the study corridor. It has a bank to bank width of approximately 2 feet.



Map Notes

1. Wetland and stream boundaries shown herein were provided by US Environmental, LLC and were not certified by C.T. Male Associates, Inc. Wetland, Stream, and Streambank delineation was performed by C.T. Male Associates, Inc. in 2011.
2. North orientation is 0.03 North based on the New York State Plane Coordinate System, Central Zone, NAD83.
3. Vertical datum shown herein is NAVD 88 and was obtained through GPS observations. (In direct tie to a benchmark).



DATE	REVISIONS	DESCRIPTION
08/11/2011	1	ISSUED FOR PERMITS
08/11/2011	2	REVISIONS TO WETLAND EXHIBIT
08/11/2011	3	REVISIONS TO STREAM EXHIBIT
08/11/2011	4	REVISIONS TO WETLAND EXHIBIT
08/11/2011	5	REVISIONS TO STREAM EXHIBIT
08/11/2011	6	REVISIONS TO WETLAND EXHIBIT
08/11/2011	7	REVISIONS TO STREAM EXHIBIT
08/11/2011	8	REVISIONS TO WETLAND EXHIBIT
08/11/2011	9	REVISIONS TO STREAM EXHIBIT
08/11/2011	10	REVISIONS TO WETLAND EXHIBIT
08/11/2011	11	REVISIONS TO STREAM EXHIBIT
08/11/2011	12	REVISIONS TO WETLAND EXHIBIT
08/11/2011	13	REVISIONS TO STREAM EXHIBIT
08/11/2011	14	REVISIONS TO WETLAND EXHIBIT
08/11/2011	15	REVISIONS TO STREAM EXHIBIT
08/11/2011	16	REVISIONS TO WETLAND EXHIBIT
08/11/2011	17	REVISIONS TO STREAM EXHIBIT
08/11/2011	18	REVISIONS TO WETLAND EXHIBIT
08/11/2011	19	REVISIONS TO STREAM EXHIBIT
08/11/2011	20	REVISIONS TO WETLAND EXHIBIT
08/11/2011	21	REVISIONS TO STREAM EXHIBIT
08/11/2011	22	REVISIONS TO WETLAND EXHIBIT
08/11/2011	23	REVISIONS TO STREAM EXHIBIT
08/11/2011	24	REVISIONS TO WETLAND EXHIBIT
08/11/2011	25	REVISIONS TO STREAM EXHIBIT
08/11/2011	26	REVISIONS TO WETLAND EXHIBIT
08/11/2011	27	REVISIONS TO STREAM EXHIBIT
08/11/2011	28	REVISIONS TO WETLAND EXHIBIT
08/11/2011	29	REVISIONS TO STREAM EXHIBIT
08/11/2011	30	REVISIONS TO WETLAND EXHIBIT
08/11/2011	31	REVISIONS TO STREAM EXHIBIT
08/11/2011	32	REVISIONS TO WETLAND EXHIBIT
08/11/2011	33	REVISIONS TO STREAM EXHIBIT
08/11/2011	34	REVISIONS TO WETLAND EXHIBIT
08/11/2011	35	REVISIONS TO STREAM EXHIBIT
08/11/2011	36	REVISIONS TO WETLAND EXHIBIT
08/11/2011	37	REVISIONS TO STREAM EXHIBIT
08/11/2011	38	REVISIONS TO WETLAND EXHIBIT
08/11/2011	39	REVISIONS TO STREAM EXHIBIT
08/11/2011	40	REVISIONS TO WETLAND EXHIBIT
08/11/2011	41	REVISIONS TO STREAM EXHIBIT
08/11/2011	42	REVISIONS TO WETLAND EXHIBIT
08/11/2011	43	REVISIONS TO STREAM EXHIBIT
08/11/2011	44	REVISIONS TO WETLAND EXHIBIT
08/11/2011	45	REVISIONS TO STREAM EXHIBIT
08/11/2011	46	REVISIONS TO WETLAND EXHIBIT
08/11/2011	47	REVISIONS TO STREAM EXHIBIT
08/11/2011	48	REVISIONS TO WETLAND EXHIBIT
08/11/2011	49	REVISIONS TO STREAM EXHIBIT
08/11/2011	50	REVISIONS TO WETLAND EXHIBIT

WETLAND EXHIBIT
FRIBER LAKES LOP STORAGE, LLC

C.T. MALE ASSOCIATES
 PROFESSIONAL ENGINEERS AND LANDSCAPE ARCHITECTS, P.C.
 100 WEST 10TH STREET, SUITE 100
 NEW YORK, NY 10011-3201
 TEL: 212-691-1100
 FAX: 212-691-1101
 WWW.CTMALE.COM

FIGURE 6
WETLAND EXHIBIT
FRIBER LAKES LOP STORAGE, LLC

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IV. SUMMARY

Wetlands, jurisdictional streams, and channels as well as ephemeral channels were identified and/or delineated within the Finger Lakes, LLC LPG Storage System Project study area. Palustrine wetlands, perennial waters of the US, intermittent waters of the U.S., ephemeral channels and stormwater channels or ditches were all identified within the project study area.

Twenty (20) wetlands (W1-W16 and W20-W23) were identified in the project area. These wetlands were classified based upon the dominated vegetative cover type within each system. They include wetlands that were dominated by herbaceous emergents (PEM), shrub/saplings less than 3 inches in diameter (PSS), trees over 3 inches in diameter (PFO), open water (POW), and/or a combination of the four. The identified wetlands include ten PEM, five PSS, two PEM/PSS, one PFO/PSS, and one POW. Table 2 indicates the wetland type, the amount of area that each wetland occupies in the project site and the location of the wetland. The wetlands are shown on Figure 5.

Eighteen (18) stream crossings (S1-S17 and S21) across sixteen waterbodies, including channels, springs, and/or swales, were also identified within the project area. There were only sixteen separate streams identified as part of this investigation. Two of the streams have two proposed crossings, thus the sixteen individual crossing numbers. Two of the streams (S1/S8, S6) maintain perennial flow, nine (S4/S7, S5, S11, S12, S13, S14, S15, S16, and S21) maintain intermittent flow, and five (S2, S3, S9, S10, and S17) maintain ephemeral flow. Table 3 indicates the type and bank to bank width of each waterbody. The waterbodies are shown on Figure 5.

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LIST OF APPENDICES

- A. PROFESSIONAL QUALIFICATIONS
- B. WETLAND DETERMINATION DATA FORMS
- C. PHOTOGRAPHS
- D. SOILS DESCRIPTIONS

APPENDIX A
PROFESSIONAL QUALIFICATIONS



AMY GONZALES
President/Senior Project Manager

SUMMARY

Geologist, Certified Professional in Erosion and Sediment Control, and professional wetland scientist with more than 25 years of experience in environmental project management. Provide overall project management of multidisciplinary projects for the private and public sector including construction and modification of industrial facilities, highways, natural gas and petroleum transmission/distribution facilities, and electric transmission and generation projects. Experience includes management of state, federal and local permitting, NEPA documentation, environmental training, construction monitoring, wetland assessment and mitigation design, and rare, threatened and endangered species studies.

EDUCATION

B.A., Geology / Colgate University, 1981
M.A., Earth Science / Johns Hopkins University, 1983

ADDITIONAL TRAINING

USFWS and PAFBC Phase I Bog Turtle Training	Threatened and Endangered Species of NJ
Soil Erosion and Sediment Control Standards of NJ	Environmental Law and Regulation, NJ
Soil Erosion and Sediment Control Standards of PA	CPESC Exam Review
FERC Environmental Compliance Training	FERC Environmental Report Preparation
Methodology for Delineating Wetlands	40-Hour OSHA Haz. Waste Health & Safety

PROFESSIONAL AFFILIATIONS & CERTIFICATIONS

Society of Wetland Scientists	PAEP, Former Secretary
NJ Teacher's Certification in Earth Science	Cornell Lab of Ornithology
Women Presidents Organization	PWS No. 000456 - 8/18/95
Women's Business Enterprise National Certification	CPESC #5627

EXPERIENCE

President & Senior Project Manager, 2002 – Present
AK Environmental, LLC / West Trenton, NJ

Relevant Project Experience:

Senior Project Manager, 2009 – present

MARC I & North-South Project, Central New York Oil and Gas (CNYOG) / NY & PA

Performed environmental surveys for approximately 40 miles of pipeline in Pennsylvania, and for two greenfield compressor stations in New York and Pennsylvania. Responsible for the preparation of environmental resource reports, federal and state permit applications, and public meeting coordination.

Senior Project Manager, 2008 –2009

SPEC, SaITec International / MS

Performed environmental surveys for a natural gas storage field and 35 miles of pipeline laterals; prepared resource reports and federal and state permit applications, and coordinated public meetings.

Senior Project Manager, 2008 – 2010

Rockies Express Pipeline REX East and REX West, Kinder Morgan / Multiple States

Developed and presented comprehensive environmental training program for about 1400-mile natural gas pipeline; provided and managed 38 environmental inspectors and eight environmental trainers.



AMY GONZALES
President/Senior Project Manager

Senior Project Manager, 2007 – 2009

Junction Storage Project, eCORP/Tenaska / PA & WV

Managed field investigations (endangered species, wetlands, cultural), federal and state permit applications, and FERC resource report preparation for proposed conversion of existing natural gas production field into underground storage facility.

Senior Project Manager, 2007 – 2010

Thomas Corners Storage Project, Arlington Gas Storage / NY

For environmental aspects of expansion of existing natural gas storage field and approximately 8-mile gathering line, responsible for project planning, federal and state permitting, environmental field surveys, FERC resource report preparation, environmental training, and construction inspection.

Senior Project Manager, 2007

FERC Third Party EIS, Eastern Shore Natural Gas / DE & MD

For the preparation of an EIS for an approximately 75-mile natural gas pipeline. If approved, this would have been the first pipeline to cross the Chesapeake Bay; the project was abandoned before completion.

Senior Project Manager, 2006 – 2009

Stagecoach Storage Phase II Expansion & North Lateral Project, Inergy Midstream / PA & NY

For all environmental aspects of expansion of an existing natural gas storage field and an approximately 10-mile lateral, responsible for project planning, federal and state permitting, environmental field surveys, FERC resource report preparation, environmental training, and construction inspection.

Deputy Project Manager, 2006 – 2008

Southeast Supply Header, Duke Energy (now Spectra Energy) / LA, MS & AL

For the preparation of a FERC third party for an approximately 269-mile natural gas pipeline project, responsible for Introduction and Alternative sections; assisted in overall technical review.

Senior Project Manager, 2005 – 2009

Stagecoach Phase II Project, CNYOG / Tioga County, NY & Bradford County, PA

Responsible for environmental aspects of expansion of existing natural gas storage field and associated pipelines, including site and route analysis, wetland and endangered species surveys, permitting, EIS preparation, agency coordination, public meeting preparation and presentation, engineering plan review and cost estimating; environmental training, construction and post construction monitoring.

Senior Project Manager, 2002 – 2005

Dominion Expansion Project, Texas Eastern Transmission, LP / PA

For 33 miles of 36-inch pipeline, provided environmental project management; prepared FERC filings, environmental permit applications, and wetland surveys; coordinated cultural resource and endangered species surveys; and environmental training. Supervised environmental inspector program and provided agency coordination including FERC, PADEP, ACOE, and County Conservation Districts.

PREVIOUS EXPERIENCE

Energy Project Manager, 1996 – 2002, Foster Wheeler Environmental Corp., Langhorne, PA

Environmental Specialist/Project Manager, 1987 – 1988, The RBA Group

Office Manager, 1992 – 1996, Fugro East, Inc,

Manager of Ecology and Permitting Department/Senior Scientist, 1988 – 1992, Environmental Science & Engineering, Inc.

Environmental Specialist/Project Manager, 1985 – 1987, N.J. Department of Transportation

SUMMARY

Environmental Scientist with 15 years experience in Natural Resource Assessments, Cultural Resource Assessments, and NEPA Compliance Assessments, in both the public and private sectors, in the northeastern U.S. Responsibilities have included wetland delineation, data collection, permitting, and technical report writing; he has also conducted, authored, and overseen environmental assessments that have included baseline ecological evaluations, threatened and endangered species surveys, stream and pond studies, Phase I archaeology investigations, asbestos surveys, lead-based paint surveys, and soil and groundwater sampling. He also is experienced in Anderson Land Use Mapping and the Cowardin Classification of Wetland and Deep Water Habitats.

EDUCATION, LICENSES, TRAINING & CERTIFICATES

B.A., Geo-Environmental Studies / Shippensburg University, 1993
Certificate in Wetland Delineation / Rutgers University, Cook College, 2002
Pennsylvania Sewage Enforcement Officer #03329
Professional Wetland Scientist #2125

EXPERIENCE

Wetland & Field Scientist, 2007 – present
AK Environmental, LLC

Relevant Project Experience:

Wetland & Field Scientist, 2010 – present
Brookfield Project, U.S. Infrastructure / PA

Managed and conducted field delineation and survey of wetlands and waterbodies to support Pennsylvania Department of Environmental Protection (PADEP) Wetland and Erosion and Sedimentation Control General Permit requirements. The proposed project consists of approximately 7.5 miles of natural gas pipeline and associated facilities.

Wetland & Field Scientist, 2010 – present
Mainesburg Project, U.S. Infrastructure / PA

Managed and conducted field delineation and survey of wetlands and waterbodies to support PADEP Wetland and Erosion and Sedimentation Control General Permit requirements. The proposed project consists of an approximately 7,200 foot lateral and an approximately 9,650 foot lateral to be extended off an existing natural gas gathering system “trunk” line.

Wetland & Field Scientist, 2010 – present
MARC I Project, Central New York Oil and Gas / PA

Assisted in field delineation of wetlands and waterbodies. The proposed project consists of approximately 40 miles of natural gas pipeline, two compressor stations and associated facilities.

Wetland & Field Scientist 2008 – 2009
Natural Gas Pipeline Corridor / Bath, NY

Served as a wetland scientist and Phase I Archaeology field scientist for a proposed approximately 8-mile long natural gas pipeline corridor through south-central New York.

Wetland Scientist, 2007 – 2009
Junction Storage Project, Chestnut Ridge Storage / PA & WV

For a proposed natural gas pipeline corridor through southwest Pennsylvania and northwest West Virginia, project responsibilities included wetland delineation of an approximately 20-mile long corridor.

OTHER EXPERIENCE

Field Scientist and Technical Writer, 2009

State of Connecticut Department of Transportation / Oxford, CT

Was responsible for completing a comprehensive draft Environmental Impact Evaluation for a 206,000-square-foot hangar facility and associated infrastructure improvements at the Waterbury-Oxford Airport. Services include completing and coordinating evaluations for natural resources, soil mapping and classification review, wildlife inventories and threatened and endangered species assessments, noise, archeology and historic resources, wetland classification, mapping and mitigation, air, water quality and other issues related to addressing the Connecticut Environmental Policy Act (CEPA) process.

Wetland Scientist, 2008 – 2009

Johnson Cranberry vs. Environmental Protection Agency (EPA)

For the pending litigation between Charles Johnson and the EPA regarding the past filling of wetlands and “Waters of the US,” project responsibilities included navigability and channelized flow analyses to determine the applicability of the “significant nexus” rule.

Project Manager, 2008

Upper Allen Township, PA

Grantham Pond Assessment. Managed a baseline assessment and rehabilitation of an approximately 2-acre pond.

Field Scientist, 2008

Granite Lake / Straban Township, PA

For a proposed residential complex in Gettysburg, associated with lands documented as a field hospital during the civil war, project responsibilities include archaeology and soil investigations.

Project Manager, 2007 – 2010

American Tower Corporation / Various Locations, Eastern U.S.

NEPA Summary Reports and Phase I Environmental Assessments. For proposed telecommunication tower locations in all states east of the Mississippi River, responsibilities included conducting NEPA Compliance and Phase I Environmental Assessments, determining effect of tower on natural and cultural resources, performing all aspects of field reconnaissance, research, and report preparation.

Environmental Inspector, 2007 – 2008

Environmental Inspection Services / CT

Middletown/Norwalk Overhead Line. For the upgrades to an existing overhead power line corridor through central Connecticut, project responsibilities included environmental compliance and inspection.

Field Scientist, 2006 – 2008

Highland Overlook / Gettysburg, PA

For a proposed residential development near Gettysburg, project responsibilities included Phase I Archaeology.

Wetland Scientist, 2004 – 2006

Department of the Navy / New Windsor, NY

Stewart Terrace Housing Redevelopment. For a 90-acre parcel of land for the redevelopment of private housing, responsibilities included conducting wetland identification and delineation, performing all aspects of wetland determination, including the identification of wetland boundaries, data collection, and report preparation.

Field Scientist, 2003 – 2004

O'Neill Properties / West Norriton Township, PA

Riverview Redevelopment Project. As part of an Environmental Assessment for the redevelopment of a 63-acre parcel of land into commercial, retail, and residential properties along the Schuylkill River, responsibilities included conducting data collection, analysis, and technical report writing.

Field Scientist, 2000 – 2002

Spring Garden Township / York County, PA

Redevelopment Project. For a 54-acre parcel of land for the development of recreational areas, responsibilities included conducting wetland identification and delineation, wetland boundaries, data collection, analysis, permitting, and technical report writing. Also responsible for surveying stream features, including bank height, stream depth, and stream width for the development of a conceptual plan for proposed restoration.

Field Scientist & Project Manager, 2000 – 2010

American Tower Corporation / Various Locations, Northeast and Mid-Atlantic

For proposed telecommunication tower locations from Maine to New York as well as in Ohio, Pennsylvania, New Jersey, Maryland, Delaware, Virginia and West Virginia, responsibilities included conducting wetland identification and delineation, performing all aspects of wetland determination, including the identification of wetland boundaries, data collection, report preparation, and permitting.

Biologist, 2000 – 2004

OLYMPIC Realty and Development Corporation / Borough of Carlisle, PA

Home Depot Site. Established baseline conditions of the Letort Spring Run, an exceptional value watershed. Duties also included a determination as to whether the proposed development would likely aid in the establishment of invasive vegetation, impact threatened and endangered species, or affect the overall quality of the watershed. Responsibilities included conducting stream assessments, vegetation surveys, and a bog turtle survey for the length of the Letort Spring Run through the project corridor.

Field Scientist, 2000 – 2002

United Dye Streambank / Spring Garden, PA

For water quality assessment and bank stabilization efforts to improve the value and function of Mill Creek, performed physical, chemical, and biological characterization of the waterbody, and completed stream survey that included existing and proposed bed and bank profiles of the project corridor.

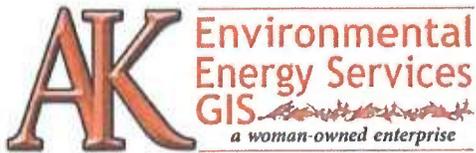
Wetland Scientist, 1993 – 1995

Pennsylvania Turnpike Commission / Bucks and Philadelphia Counties, PA

I-95 and I-276 Interchange Project. As part of a Design Location Study and Environmental Impact Statement for the interchange of I-95 and I-276, responsibilities included conducting wetland delineation, data collection, and analysis.

Wetland Scientist, 1993 – 1995

Pennsylvania Turnpike Commission / Bucks and Philadelphia Counties, PA



SCOTT MOWERY, PWS
NEPA Specialist/Professional Wetland Scientist

I-95 Intermodal Project. For the preparation of environmental documents for the reconstruction, rehabilitation, and improvements of Interstate 95, responsibilities included conducting various environmental studies, including Anderson Land Use mapping, and wetland delineation.

Wetland Scientist, 1993 – 1995

Pennsylvania Department of Transportation / Mifflin County, PA

U.S. 0322, Section B01, "Missing Link." For a four-lane limited access link between S.R. 0655 and the four lane section of S.R. 0322 north of the Mount Pleasant Community, responsibilities included conducting wetland mitigation site determinations.

Wetland Scientist, 1993 – 1995

Pennsylvania Turnpike Commission / Fayette County, PA and Monongalia County, WV

Mon/Fayette Transportation Project. For transportation improvements to help meet traffic safety and capacity needs, and to support economic redevelopment efforts in the 65-mile long corridor between I-68 in Morgantown, West Virginia and I-376 in Pittsburgh, Pennsylvania, responsibilities included conducting wetland field verification, data collection, and Phase I Archaeological studies.

COMPUTER PROFICIENCIES

Adept at MSOffice applications, including Outlook, Excel and Word

APPENDIX B
WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 5/23/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W1-DP1
 Investigator(s): LV/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Volusia channery silt loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W1</u>
Remarks: (Explain alternative procedures here or in a separate report.) An approximate 0.02-acre isolated PEM wetland within a fallow field. Depression gathers stormwater run-off from surrounding area.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Sampling Point: W1-DP1-W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5'</u>)				
1.	<u>Onoclea sensibilis</u>	<u>60</u>	<u>Y</u>	<u>FacW</u>
2.	<u>Sphagnum peat moss</u>	<u>45</u>	<u>-</u>	<u>-</u>
3.	<u>Fragaria virginiana</u>	<u>20</u>	<u>N</u>	<u>FacU</u>
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>80</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 5/23/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W1-DP2
 Investigator(s): LV/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): na Local relief (concave, convex, none): na Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Volusia channery silt loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Hydric Soil Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Wetland Hydrology Present? Yes _____ No <u>X</u>		If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) Fallow field, mowed.		

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width: 100%;"> <tr> <td><input type="radio"/> Surface Water (A1)</td> <td><input type="radio"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="radio"/> High Water Table (A2)</td> <td><input type="radio"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="radio"/> Saturation (A3)</td> <td><input type="radio"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="radio"/> Water Marks (B1)</td> <td><input type="radio"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="radio"/> Sediment Deposits (B2)</td> <td><input type="radio"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="radio"/> Drift Deposits (B3)</td> <td><input type="radio"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="radio"/> Algal Mat or Crust (B4)</td> <td><input type="radio"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="radio"/> Iron Deposits (B5)</td> <td><input type="radio"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="radio"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="radio"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="radio"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input type="radio"/> Surface Water (A1)	<input type="radio"/> Water-Stained Leaves (B9)	<input type="radio"/> High Water Table (A2)	<input type="radio"/> Aquatic Fauna (B13)	<input type="radio"/> Saturation (A3)	<input type="radio"/> Marl Deposits (B15)	<input type="radio"/> Water Marks (B1)	<input type="radio"/> Hydrogen Sulfide Odor (C1)	<input type="radio"/> Sediment Deposits (B2)	<input type="radio"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="radio"/> Drift Deposits (B3)	<input type="radio"/> Presence of Reduced Iron (C4)	<input type="radio"/> Algal Mat or Crust (B4)	<input type="radio"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="radio"/> Iron Deposits (B5)	<input type="radio"/> Thin Muck Surface (C7)	<input type="radio"/> Inundation Visible on Aerial Imagery (B7)	<input type="radio"/> Other (Explain in Remarks)	<input type="radio"/> Sparsely Vegetated Concave Surface (B8)		<p><u>Secondary Indicators (minimum of two required)</u></p> <table style="width: 100%;"> <tr><td><input type="radio"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="radio"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="radio"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="radio"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="radio"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="radio"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="radio"/> Stunted or Stressed Plants (D1)</td></tr> <tr><td><input type="radio"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="radio"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="radio"/> Microtopographic Relief (D4)</td></tr> <tr><td><input type="radio"/> FAC-Neutral Test (D5)</td></tr> </table>	<input type="radio"/> Surface Soil Cracks (B6)	<input type="radio"/> Drainage Patterns (B10)	<input type="radio"/> Moss Trim Lines (B16)	<input type="radio"/> Dry-Season Water Table (C2)	<input type="radio"/> Crayfish Burrows (C8)	<input type="radio"/> Saturation Visible on Aerial Imagery (C9)	<input type="radio"/> Stunted or Stressed Plants (D1)	<input type="radio"/> Geomorphic Position (D2)	<input type="radio"/> Shallow Aquitard (D3)	<input type="radio"/> Microtopographic Relief (D4)	<input type="radio"/> FAC-Neutral Test (D5)
<input type="radio"/> Surface Water (A1)	<input type="radio"/> Water-Stained Leaves (B9)																															
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes _____ No <u>X</u></p>																															
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																																
Remarks: No wetland hydrology observed.																																

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>NA</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Betula populifolia</u>	30	Y	FacU	
2. <u>Fagus grandifolia</u>	25	Y	Fac	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
55 = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Dactylis glomerata</u>	35	Y	FacU	
2. <u>Solidago canadensis</u>	10	N	FacU	
3. <u>Lonicera Maackii</u>	20	Y	FacU	
4. <u>Podophyllum peltatum</u>	15	N	FacU	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
80 = Total Cover				
Woody Vine Stratum (Plot size: <u>NA</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 5/23/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W2-DP1
 Investigator(s): LV/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): sits low in topography Local relief (concave, convex, none): na Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Burdett silt loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W2</u>
Remarks: (Explain alternative procedures here or in a separate report.) An approximate 0.62-acre transitional PSS/PEM wetland within a fallow field. Gather stormwater run-off from swale S2.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Sampling Point: W2-DP1-W

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Cornus sericea</u>	<u>50</u>	<u>Y</u>	<u>FacW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Cornus sericea</u>	<u>45</u>	<u>Y</u>	<u>FacW</u>
2. <u>Solidago gigantea</u>	<u>15</u>	<u>Y</u>	<u>FacW</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Phalaris arundinacea</u>	<u>60</u>	<u>Y</u>	<u>FacW</u>
2. <u>Sphagnum peat moss</u>	<u>30</u>	<u>-</u>	<u>-</u>
3. <u>Fragaria virginiana</u>	<u>10</u>	<u>N</u>	<u>FacU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)
 Hydrophytic vegetation observed.

SOIL

Sampling Point: W2-DP1-W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/2	100					SiL	
4-12	10YR 4/2	95	10YR 4/6	5	D	M	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <ul style="list-style-type: none"> <input type="radio"/> Histosol (A1) <input type="radio"/> Histic Epipedon (A2) <input type="radio"/> Black Histic (A3) <input type="radio"/> Hydrogen Sulfide (A4) <input type="radio"/> Stratified Layers (A6) <input type="radio"/> Depleted Below Dark Surface (A11) <input type="radio"/> Thick Dark Surface (A12) <input type="radio"/> Sandy Mucky Mineral (S1) <input type="radio"/> Sandy Gleyed Matrix (S4) <input type="radio"/> Sandy Redox (S5) <input type="radio"/> Stripped Matrix (S6) <input type="radio"/> Dark Surface (S7) (LRR R, MLRA 149B) 	<ul style="list-style-type: none"> <input type="radio"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="radio"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="radio"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="radio"/> Loamy Gleyed Matrix (F2) <input type="radio"/> Depleted Matrix (F3) <input type="radio"/> Redox Dark Surface (F6) <input type="radio"/> Depleted Dark Surface (F7) <input type="radio"/> Redox Depressions (F8) 	<p>Indicators for Problematic Hydric Soils³:</p> <ul style="list-style-type: none"> <input type="radio"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="radio"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="radio"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="radio"/> Dark Surface (S7) (LRR K, L) <input type="radio"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="radio"/> Thin Dark Surface (S9) (LRR K, L) <input type="radio"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="radio"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="radio"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="radio"/> Red Parent Material (TF2) <input type="radio"/> Very Shallow Dark Surface (TF12) <input type="radio"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Remarks: Hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 5/23/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W2-DP2
 Investigator(s): LV/SR Section, Township, Range: _____
 Landform (hillislope, terrace, etc.): na Local relief (concave, convex, none): na Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Burdett silt loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>		If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field, mowed.</u>		

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<p><u>Secondary Indicators (minimum of two required)</u></p> <table style="width: 100%;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Stunted or Stressed Plants (D1)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> Microtopographic Relief (D4)</td></tr> <tr><td><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> </table>	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Microtopographic Relief (D4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)																															
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<input type="checkbox"/> FAC-Neutral Test (D5)																																
<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____</p> <p>Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____</p> <p>Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ <small>(includes capillary fringe)</small></p>	<p>Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/></p>																															
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																																
Remarks: <u>No wetland hydrology observed.</u>																																

VEGETATION – Use scientific names of plants.

Sampling Point: W2-DP2-U

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>NA</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Lonicera maakii</u>	30	Y	FacU	
2. <u>Rosa multiflora</u>	15	N	FacU	
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Dactylis glomerata</u>	35	Y	FacU	
2. <u>Solidago canadensis</u>	10	N	FacU	
3. <u>Lonicera Maackii</u>	15	Y	FacU	
4. <u>Taraxacum officinale</u>	10	N	FacU	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: <u>NA</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____				
2. _____				
3. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation observed.				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/25/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W4-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Burdett silt loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W4</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Associated with a seep and/or old cistern located at the base of an topographic incline.</u>	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </td> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>	<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<p><u>Secondary Indicators (minimum of two required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)		
<p>Field Observations:</p> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>1</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: <u>Wetland hydrology observed.</u>			

VEGETATION – Use scientific names of plants.

Sampling Point: W4-DP1

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer rubrum</u>	<u>30</u>	<u>Y</u>	<u>Fac</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Ligustrum vulgare</u>	<u>20</u>	<u>Y</u>	<u>FacU</u>
2. <u>Rosa multiflora</u>	<u>20</u>	<u>Y</u>	<u>FacU</u>
3. <u>Viburnum recognitum</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Eupatorium perfoliatum</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
2. <u>Sphagnum peat moss</u>	<u>40</u>	<u>Y</u>	<u>-</u>
3. <u>Onoclea sensibilis</u>	<u>30</u>	<u>Y</u>	<u>FacW</u>
4. <u>Solidago gigantea</u>	<u>20</u>	<u>Y</u>	<u>FacW</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species 70 x 2 = 140

FAC species 30 x 3 = 90

FACU species 40 x 4 = 160

UPL species _____ x 5 = _____

Column Totals: 140 (A) 390 (B)

Prevalence Index = B/A = 2.8

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/25/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W4-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Burdett silt loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland Forest</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="radio"/> Surface Water (A1) <input type="radio"/> High Water Table (A2) <input type="radio"/> Saturation (A3) <input type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8)	<input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks)
<input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input type="radio"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1. <u>Acer rubrum</u>	40	Y	Fac	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. <u>Pinus strobus</u>	20	Y	FacU	
3. <u>Carya ovata</u>	10	N	FacU	
4. _____				
5. _____				
6. _____				
7. _____				
	<u>70</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>40</u> x 3 = <u>120</u> FacU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = _____ Column Totals: <u>70</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>3.4</u>
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
		_____ = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. _____				Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
		_____ = Total Cover		
Woody Vine Stratum (Plot size: <u>NA</u>)				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____				
3. _____				
4. _____				
		_____ = Total Cover		
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>				
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation observed.				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/25/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W5-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W5</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Vegetated Swale adjacent to equipment storage yard</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>Wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Sampling Point: W5-DP1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Phalaris arundinacea</u>	<u>90</u>	<u>Y</u>		<u>FacW</u>
2. <u>Typha angustifolia</u>	<u>10</u>	<u>N</u>		<u>OBL</u>
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
				<u>100</u> = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
				_____ = Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)				
Hydrophytic vegetation observed.				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/25/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W5-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): na Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Sampling Point: W5-DP2

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5'</u>)				
1.	10	N	NI	
2.	10	N	FacU	
3.	10	N	FacU	
4.	70	Y		
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	100 = Total Cover			
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
	_____ = Total Cover			
Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)				
Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____				
Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>				
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation observed.				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W6-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): _____ Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W6</u>
Remarks: (Explain alternative procedures here or in a separate report.) Wetland located on old well pad with artificially created hydrology and soil regimes.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>10</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Sampling Point: W6-DP1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Populus deltoides</u>	10	N	Fac	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				10 = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Typha angustifolia</u>	30	Y	OBL	
2. <u>Phragmites australis</u>	30	Y	FacW	
3. <u>Euthamia graminifolia</u>	10	N	Fac	
4. <u>Juncus tenuis</u>	10	N	Fac	
5. <u>Carex sp.</u>	10	N	FacW	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
				90 = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
				_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W6-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): na Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No wetland hydrology observed.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot size: <u>30'</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1.					
2.					
3.					
4.					
5.					
6.					
			_____ = Total Cover	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
Sapling/Shrub Stratum (Plot size: <u>15'</u>)					
1.					
2.					
3.					
4.					
5.					
			_____ = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1.	<u>Phleum pratense</u>	<u>10</u>	<u>N</u>		<u>FacU</u>
2.	<u>Solidago canadensis</u>	<u>10</u>	<u>N</u>		<u>FacU</u>
3.	<u>Euthamia graminifolia</u>	<u>10</u>	<u>N</u>		<u>Fac</u>
4.	<u>Dactylis glomerata</u>	<u>20</u>	<u>Y</u>		<u>FacU</u>
5.	<u>Coronilla varia</u>	<u>50</u>	<u>Y</u>		<u>NI</u>
6.					
7.					
8.					
9.					
10.					
11.					
			<u>100</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>NA</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
1.					
2.					
3.					
			_____ = Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation observed.				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W7-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): _____ Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W7</u>
Remarks: (Explain alternative procedures here or in a separate report.) PSS wetland in in regenerating forest land	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Other - Multiple stems and shallow roots on shrubs	

VEGETATION – Use scientific names of plants.

Sampling Point: W7-DP1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>40</u> x 4 = <u>160</u> UPL species _____ x 5 = _____ Column Totals: <u>100</u> (A) <u>340</u> (B) Prevalence Index = B/A = <u>3.4</u>
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Prunus sp.</u>	<u>40</u>	<u>Y</u>	<u>FacU</u>	
2. <u>Rhamnus frangula</u>	<u>60</u>	<u>Y</u>	<u>Fac</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: <u>NA</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____				
2. _____				
3. _____				
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation sapling/shrub vegetation is very dense, which in turn does not allow sunlight to reach the ground surface. Therefore, the herbaceous layer is very sparse and scattered. The vegetative cover at this particular data point was estimated based on percent cover. A different, more precise, transect sampling method would likely yield a more definitive result.				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W7-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): CONVEX Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="radio"/> Surface Water (A1) <input type="radio"/> High Water Table (A2) <input type="radio"/> Saturation (A3) <input type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8)	<input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks)
<input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input type="radio"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Sampling Point: W7-DP2

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot size: <u>30'</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1.					
2.					
3.					
4.					
5.					
6.					
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
Sapling/Shrub Stratum (Plot size: <u>15'</u>)					
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <input type="radio"/> Rapid Test for Hydrophytic Vegetation <input type="radio"/> Dominance Test is >50% <input type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1.	<u>Rosa multiflora</u>	<u>10</u>	<u>N</u>		<u>NI</u>
2.	<u>Solidago canadensis</u>	<u>70</u>	<u>Y</u>		<u>FacU</u>
3.	<u>Ligustrum vulgare</u>	<u>10</u>	<u>N</u>		<u>FacU</u>
4.	<u>Grass</u>	<u>10</u>	<u>N</u>		
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum (Plot size: <u>NA</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
1.					
2.					
3.					
_____ = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation observed.				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W8-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): _____ Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W8</u>
Remarks: (Explain alternative procedures here or in a separate report.) Wetland located on an old access road	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input checked="" type="radio"/> Surface Water (A1) <input checked="" type="radio"/> Water-Stained Leaves (B9) <input checked="" type="radio"/> High Water Table (A2) <input type="radio"/> Aquatic Fauna (B13) <input checked="" type="radio"/> Saturation (A3) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Water Marks (B1) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Other (Explain in Remarks) <input type="radio"/> Sparsely Vegetated Concave Surface (B8)	<input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input type="radio"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>.5</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>surface</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Sampling Point: W8-DP1

<u>Tree Stratum</u> (Plot size: <u>30'</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15'</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5'</u>)				
1. <u>Carex sp.</u>	30	Y	FacW	
2. <u>Polygonum persicaria</u>	20	Y	FacW	
3. <u>Euthamia graminifolia</u>	10	N	Fac	
4. <u>Juncus effusus</u>	10	N	FacW	
5. <u>Solidago sp.</u>	20	Y	-	
6. <u>Verbena hastata</u>	10	N	FacW	
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
100 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>NA</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W8-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Old access road</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Sampling Point: W8-DP2

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>30'</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.				
2.				
3.				
4.				
5.				
6.				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = _____ Column Totals: <u>30</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="radio"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="radio"/> Dominance Test is >50% <input checked="" type="radio"/> Prevalence Index is ≤3.0 ¹ <input type="radio"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="radio"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: <u>5'</u>)				
1. Grass	70	Y		
2. Achillea millefolium	10	N	FacU	
3. Vicia sativa	20	N	FacU	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>NA</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1.				
2.				
3.				
4.				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation routinely mowed.				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

SOIL

Sampling Point: W8-DP2

Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	2.5Y 5/3	100					SiLo	
6-18	2.5Y 5/3	50	10YR 5/2	30	RM	M		
			10YR 6/6	20	RM	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: No hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W9-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): _____ Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W9</u>
Remarks: (Explain alternative procedures here or in a separate report.) PSS/PEM wetland is located along a stream corridor, in regenerating forest land	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks) </td> <td style="width: 33%; vertical-align: top;"> Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) </td> </tr> </table>	<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (Includes capillary fringe)
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)		
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: Other - Multiple stems and shallow roots on shrubs				

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Prunus sp.</u>	<u>20</u>	<u>N</u>	<u>FacU</u>
2. <u>Rhamnus frangula</u>	<u>70</u>	<u>Y</u>	<u>Fac</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

_____ = Total Cover

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Euthamia graminifolia</u>	<u>30</u>	<u>Y</u>	<u>Fac</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

_____ = Total Cover

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W9-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rosa multiflora</u>	<u>10</u>	<u>N</u>	<u>NI</u>
2. <u>Solidago canadensis</u>	<u>50</u>	<u>Y</u>	<u>FacU</u>
3. <u>Ligustrum vulgare</u>	<u>10</u>	<u>N</u>	<u>FacU</u>
4. <u>Grass</u>	<u>30</u>	<u>Y</u>	<u>-</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)
No hydrophytic vegetation observed.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture SiLo	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	2.5Y 5/3	100						
6-15	2.5Y 5/3	40	10YR 5/2	30	RM	M		
			10YR 6/6	30	RM	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

<input type="radio"/> Histosol (A1)	<input type="radio"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="radio"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="radio"/> Histic Epipedon (A2)	<input type="radio"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="radio"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="radio"/> Black Histic (A3)	<input type="radio"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="radio"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="radio"/> Hydrogen Sulfide (A4)	<input type="radio"/> Loamy Gleyed Matrix (F2)	<input type="radio"/> Dark Surface (S7) (LRR K, L)
<input type="radio"/> Stratified Layers (A5)	<input type="radio"/> Depleted Matrix (F3)	<input type="radio"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="radio"/> Depleted Below Dark Surface (A11)	<input type="radio"/> Redox Dark Surface (F6)	<input type="radio"/> Thin Dark Surface (S9) (LRR K, L)
<input type="radio"/> Thick Dark Surface (A12)	<input type="radio"/> Depleted Dark Surface (F7)	<input type="radio"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="radio"/> Sandy Mucky Mineral (S1)	<input type="radio"/> Redox Depressions (F8)	<input type="radio"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="radio"/> Sandy Gleyed Matrix (S4)		<input type="radio"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="radio"/> Sandy Redox (S5)		<input type="radio"/> Red Parent Material (TF2)
<input type="radio"/> Stripped Matrix (S6)		<input type="radio"/> Very Shallow Dark Surface (TF12)
<input type="radio"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input type="radio"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
 No hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 5/11/11
 Applicant/Owner: Finger Lakes Storage, LLC State: NY Sampling Point: W10-DP1
 Investigator(s): SM/LV Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): NA Local relief (concave, convex, none): NA Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W10</u>
Remarks: (Explain alternative procedures here or in a separate report.) Wetland created by stormwater run off from adjacent highway 14. Located within fallow field.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Equisetum hyemale</u>	25	Y	FacW
2. <u>Verbena hastata</u>	20	Y	FacW
3. <u>Cornus foemina</u>	10	N	Fac
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Typha angustifolia</u>	40	Y	OBL
2. <u>Dipsacus fullonum</u>	5	N	NI
3. <u>Onoclea sensibilis</u>	15	Y	FacW
4. <u>Carex sp.</u>	15	Y	-
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)
 Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 5/11/11
 Applicant/Owner: Finger Lakes Storage, LLC State: NY Sampling Point: W10-DP2
 Investigator(s): SM/LV Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): NA Local relief (concave, convex, none): NA Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field adjacent to wetland.</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Pinus rigida</u>	<u>15</u>	<u>Y</u>	<u>FacU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>15</u> = Total Cover		

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Elaeagnus umbellata</u>	<u>20</u>	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>20</u> = Total Cover		

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Taraxacum officinale</u>	<u>25</u>	<u>Y</u>	<u>FacU</u>
2. <u>Daucus carota</u>	<u>15</u>	_____	_____
3. <u>Dipsacus fullonum</u>	<u>20</u>	_____	_____
4. <u>Plantago lanceolata</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	<u>45</u> = Total Cover		

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)
No hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W11-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): _____ Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W11</u>
Remarks: (Explain alternative procedures here or in a separate report.) PSS/PEM wetland is located along a stream corridor, in regenerating forest land	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>8</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Other - Multiple stems and shallow roots on shrubs. Hummocky herb. vegetation

VEGETATION – Use scientific names of plants.

Sampling Point: W11-DP1

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Populus deltoides</u>	<u>20</u>	<u>N</u>	<u>Fac</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rhamnus frangula</u>	<u>80</u>	<u>Y</u>	<u>Fac</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W11-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Sampling Point: W11-DP2

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Rosa multiflora</u>	10	N	NI	
2. <u>Solidago canadensis</u>	50	Y	FacU	
3. <u>Ligustrum vulgare</u>	10	N	FacU	
4. <u>Grass</u>	30	Y	-	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
				100 = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
				_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W12-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W12</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Wetland within a swale</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>Wetland hydrology observed.</u>		

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1.	70	Y	OBL	<u>Typha angustifolia</u>
2.	10	N	FacW	<u>Scirpus cyperinus</u>
3.	20	N	FacW	<u>Mentha arvensis</u>
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	100			_____ = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
				_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 10/26/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W12-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): CONVEX Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow ag. field.</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Dactylis glomerata</u>	<u>70</u>	<u>Y</u>	<u>FacU</u>
2. <u>Daucus carota</u>	<u>10</u>	<u>N</u>	<u>NI</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation routinely mowed.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/3	100					SiLo	
6-14	10Y 5/3	100					SiLo	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

- | | | |
|--|--|---|
| <p>Hydric Soil Indicators:</p> <ul style="list-style-type: none"> <input type="radio"/> Histosol (A1) <input type="radio"/> Histic Epipedon (A2) <input type="radio"/> Black Histic (A3) <input type="radio"/> Hydrogen Sulfide (A4) <input type="radio"/> Stratified Layers (A5) <input type="radio"/> Depleted Below Dark Surface (A11) <input type="radio"/> Thick Dark Surface (A12) <input type="radio"/> Sandy Mucky Mineral (S1) <input type="radio"/> Sandy Gleyed Matrix (S4) <input type="radio"/> Sandy Redox (S5) <input type="radio"/> Stripped Matrix (S6) <input type="radio"/> Dark Surface (S7) (LRR R, MLRA 149B) | <ul style="list-style-type: none"> <input type="radio"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="radio"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="radio"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="radio"/> Loamy Gleyed Matrix (F2) <input type="radio"/> Depleted Matrix (F3) <input type="radio"/> Redox Dark Surface (F6) <input type="radio"/> Depleted Dark Surface (F7) <input type="radio"/> Redox Depressions (F8) | <p>Indicators for Problematic Hydric Soils³:</p> <ul style="list-style-type: none"> <input type="radio"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="radio"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="radio"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="radio"/> Dark Surface (S7) (LRR K, L) <input type="radio"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="radio"/> Thin Dark Surface (S9) (LRR K, L) <input type="radio"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="radio"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="radio"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="radio"/> Red Parent Material (TF2) <input type="radio"/> Very Shallow Dark Surface (TF12) <input type="radio"/> Other (Explain in Remarks) |
|--|--|---|

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: **No hydric soil observed.**

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 11/15/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W13-DP1
 Investigator(s): SM/TD Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W13</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Linear swale wetland within proposed Brine Pond footprint</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Drift Deposits (B3) <input checked="" type="checkbox"/> Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Iron Deposits (B5) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Marl Deposits (B15) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input checked="" type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) <input checked="" type="checkbox"/> Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u><1</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (Includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Crataegus phaenopyrum</u>	<u>50</u>	<u>Y</u>	<u>Fac</u>
2. <u>Cornus racemosa</u>	<u>30</u>	<u>Y</u>	<u>Fac</u>
3. <u>Ligustrum vulgare</u>	<u>5</u>	<u>N</u>	<u>FacU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Solidago sp.</u>	<u>20</u>	<u>N</u>	_____
2. <u>Carex sp.</u>	<u>20</u>	<u>N</u>	<u>FacW</u>
3. <u>Euonymus americanus</u>	<u>20</u>	<u>N</u>	<u>Fac</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 11/15/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W14-DP1
 Investigator(s): SM Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W14</u>
Remarks: (Explain alternative procedures here or in a separate report.) PSS/PEM wetland is located along a stream corridor (S15) within proposed Plant Area	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply): <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required): <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations:
 Surface Water Present? Yes _____ No Depth (inches): _____
 Water Table Present? Yes No _____ Depth (inches): 4
 Saturation Present? Yes No _____ Depth (inches): Surface
 (includes capillary fringe)

Wetland Hydrology Present? Yes No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rhamnus frangula</u>	<u>10</u>	<u>N</u>	<u>Fac</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Lysimachia nummularia</u>	<u>30</u>	<u>Y</u>	<u>FacW</u>
2. <u>Ranunculus sp.</u>	<u>20</u>	<u>Y</u>	<u>FacW</u>
3. <u>Carex sp.</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
4. <u>Solidago gigantea</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
5. <u>Verbena hastata</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 11/15/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W14/W15-DP2
 Investigator(s): SM Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): ridgetop Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland data point for W14 and W15 within the proposed Plant Area.</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input type="radio"/> Surface Water (A1) <input type="radio"/> High Water Table (A2) <input type="radio"/> Saturation (A3) <input type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8) <input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> <input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input type="radio"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <u>X</u> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Prunus sp.</u>	<u>10</u>	<u>N</u>	<u>FacU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rubus sp.</u>	<u>30</u>	<u>Y</u>	<u>NI</u>
2. <u>Solidago canadensis</u>	<u>20</u>	<u>Y</u>	<u>FacU</u>
3. <u>Ligustrum vulgare</u>	<u>10</u>	<u>N</u>	<u>FacU</u>
4. <u>Aster sp.</u>	<u>10</u>	<u>N</u>	<u>-</u>
5. <u>Dactylis glomerata</u>	<u>20</u>	<u>Y</u>	<u>FacU</u>
6. <u>Euonymus americanus</u>	<u>10</u>	<u>N</u>	<u>Fac</u>
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	100					SiLo	
8-14	10YR 4/3	90	10YR 5/4	10	D	M	SiCl	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

- Hydric Soil Indicators:**
- Histosol (A1)
 - Histic Epipedon (A2)
 - Black Histic (A3)
 - Hydrogen Sulfide (A4)
 - Stratified Layers (A5)
 - Depleted Below Dark Surface (A11)
 - Thick Dark Surface (A12)
 - Sandy Mucky Mineral (S1)
 - Sandy Gleyed Matrix (S4)
 - Sandy Redox (S5)
 - Stripped Matrix (S6)
 - Dark Surface (S7) (LRR R, MLRA 149B)
 - Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
 - Thin Dark Surface (S9) (LRR R, MLRA 149B)
 - Loamy Mucky Mineral (F1) (LRR K, L)
 - Loamy Gleyed Matrix (F2)
 - Depleted Matrix (F3)
 - Redox Dark Surface (F6)
 - Depleted Dark Surface (F7)
 - Redox Depressions (F8)
- Indicators for Problematic Hydric Soils³:**
- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
 - Coast Prairie Redox (A16) (LRR K, L, R)
 - 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
 - Dark Surface (S7) (LRR K, L)
 - Polyvalue Below Surface (S8) (LRR K, L)
 - Thin Dark Surface (S9) (LRR K, L)
 - Iron-Manganese Masses (F12) (LRR K, L, R)
 - Piedmont Floodplain Soils (F19) (MLRA 149B)
 - Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
 - Red Parent Material (TF2)
 - Very Shallow Dark Surface (TF12)
 - Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks: No hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 11/15/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W15-DP1
 Investigator(s): SM Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W15</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Vegetated Swale within proposed Plant Area</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>Wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carex sp.</u>	<u>40</u>	<u>Y</u>	<u>FacW</u>
2. <u>Aster novi-belgii</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
3. <u>Ranunculus sp.</u>	<u>20</u>	<u>Y</u>	<u>FacW</u>
4. <u>Scirpus cyperinus</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)
Hydrophytic vegetation observed.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/1	100					SiL	
2-4	10YR 3/1	90	10YR 3/6	10	RM	PL	SiCl	Oxidized rhizospheres
4-7	10YR 4/2	90	10YR 3/6	10	D	M	SiCl	
7-16	10YR 5/1	70	10YR 5/8	10	D	M	SiCl	
			10YR 6/2	20	D	M	SiCl	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

<input type="radio"/> Histosol (A1)	<input type="radio"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="radio"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="radio"/> Histic Epipedon (A2)	<input type="radio"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="radio"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="radio"/> Black Histic (A3)	<input type="radio"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="radio"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="radio"/> Hydrogen Sulfide (A4)	<input type="radio"/> Loamy Gleyed Matrix (F2)	<input type="radio"/> Dark Surface (S7) (LRR K, L)
<input type="radio"/> Stratified Layers (A5)	<input type="radio"/> Depleted Matrix (F3)	<input type="radio"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="radio"/> Depleted Below Dark Surface (A11)	<input type="radio"/> Redox Dark Surface (F6)	<input type="radio"/> Thin Dark Surface (S9) (LRR K, L)
<input type="radio"/> Thick Dark Surface (A12)	<input type="radio"/> Depleted Dark Surface (F7)	<input type="radio"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="radio"/> Sandy Mucky Mineral (S1)	<input type="radio"/> Redox Depressions (F8)	<input type="radio"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="radio"/> Sandy Gleyed Matrix (S4)		<input type="radio"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="radio"/> Sandy Redox (S5)		<input type="radio"/> Red Parent Material (TF2)
<input type="radio"/> Stripped Matrix (S6)		<input type="radio"/> Very Shallow Dark Surface (TF12)
<input type="radio"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input type="radio"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks: Hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: LPG Storage System Project City/County: Reading/Schulyer Sampling Date: 12/15/11
 Applicant/Owner: Finger Lakes Storage, LLC State: NY Sampling Point: W16-DP1
 Investigator(s): SM/RW Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>W16</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) A PEM swale discharging from an agricultural drain tile.	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Surface Water (A1) <input checked="" type="radio"/> High Water Table (A2) <input type="radio"/> Saturation (A3) <input type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8) <input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input checked="" type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks) 	<p><u>Secondary Indicators (minimum of two required)</u></p> <ul style="list-style-type: none"> <input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input type="radio"/> FAC-Neutral Test (D5)
<p>Field Observations:</p> <p>Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u><1"</u></p> <p>Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>surface</u></p> <p>Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>surface</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____</p>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

Sampling Point: W16-DP1

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
_____ = Total Cover			
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>mixed grass</u>	<u>30</u>	<u>Y</u>	<u>-</u>
2. <u>Carex sp.</u>	<u>20</u>	<u>N</u>	<u>FacW</u>
3. <u>Scirpus cyperinus</u>	<u>40</u>	<u>Y</u>	<u>FacW</u>
4. <u>Juncus effusus</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
<u>100</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species 70 x 2 = 140

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: 70 (A) 140 (B)

Prevalence Index = B/A = 2

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation present.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 12/15/11
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W16-DP2
 Investigator(s): SM/RW Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow ag. field.</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	_____ = Total Cover		

Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	_____ = Total Cover		

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Dactylis glomerata</u>	<u>70</u>	<u>Y</u>	<u>FacU</u>
2. <u>Daucus carota</u>	<u>10</u>	<u>N</u>	<u>NI</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
	<u>80</u> = Total Cover		

Woody Vine Stratum (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____
Prevalence Index = B/A = _____	

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
 - Dominance Test is >50%
 - Prevalence Index is ≤3.0¹
 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation routinely mowed.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/3	100					SiLo	
6-14	10Y 5/3	100					SiLo	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No **X**

Remarks: No hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 1/11/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W20-DP1
 Investigator(s): SM/LV Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): _____ Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>W20</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) PSS wetland in in regenerating forest land	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Other (Explain in Remarks) 	<p><u>Secondary Indicators (minimum of two required)</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	---

<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (Inches): _____</p> <p>Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>3</u></p> <p>Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>Surface</u></p> <p>(Includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____</p>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Other - Multiple stems and shallow roots on shrubs

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. Prunus sp.	20		FacU
2. Rhamnus frangula	80	Y	Fac
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
100 = Total Cover			
Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
_____ = Total Cover			
Woody Vine Stratum (Plot size: NA)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
_____ = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species 80 x 3 = 240
 FACU species 20 x 4 = 80
 UPL species _____ x 5 = _____
 Column Totals: 100 (A) 320 (B)
 Prevalence Index = B/A = 3.2

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No _____

Remarks: (Include photo numbers here or on a separate sheet.)
 The vegetation sapling/shrub vegetation is very dense, which in turn does not allow sunlight to reach the ground surface. Therefore, the herbaceous layer is very sparse and scattered. The vegetative cover at this particular data point was estimated based on percent cover. A different, more precise, transect sampling method would likely yield a more definitive result.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 1/11/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W20-DP2
 Investigator(s): SM/LV Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): CONVEX Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland ridge</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>No wetland hydrology observed.</u>	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1. <u>Carya spp.</u>	<u>90</u>	<u>Y</u>	<u>FacU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>90</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____	= Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____	= Total Cover		
Woody Vine Stratum (Plot size: <u>NA</u>)				
1. <u>Toxicodendron radicans</u>	<u>30</u>	<u>Y</u>	<u>Fac</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>30</u>	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>90</u>	x 4 = <u>360</u>
UPL species _____	x 5 = _____
Column Totals: <u>120</u> (A)	<u>450</u> (B)

Prevalence Index = B/A = 3.75

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 1/11/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W21-DP1
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): _____ Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W21</u>
Remarks: (Explain alternative procedures here or in a separate report.) Wetland located on old well pad with artificially created hydrology and soil regimes.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input checked="" type="radio"/> Surface Water (A1) <input checked="" type="radio"/> High Water Table (A2) <input checked="" type="radio"/> Saturation (A3) <input checked="" type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8)	<input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks)
<input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input checked="" type="radio"/> Microtopographic Relief (D4) <input checked="" type="radio"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>3</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1.	<u>10</u>	<u>N</u>	<u>OBL</u>	<u>Typha latifolia</u>
2.	<u>30</u>	<u>Y</u>	<u>FacW</u>	<u>Phragmites australis</u>
3.	<u>20</u>	<u>Y</u>	<u>Fac</u>	<u>Euthamia graminifolia</u>
4.	<u>5</u>	<u>N</u>	<u>FacW</u>	<u>Juncus effusus</u>
5.	<u>10</u>	<u>N</u>	<u>FacW</u>	<u>Carex sp.</u>
6.	<u>5</u>	<u>N</u>		<u>Daucus carota</u>
7.	<u>5</u>	<u>N</u>		<u>Phleum pratense</u>
8.	<u>5</u>	<u>N</u>		<u>Dactylis glomerata</u>
9.				
10.				
11.				
12.				
	<u>90</u>			_____ = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
				_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuylers Sampling Date: 1/11/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W21&W22-DP2
 Investigator(s): SM/SR Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): na Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) Equipment pad	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: No wetland hydrology observed.	

VEGETATION – Use scientific names of plants.

Sampling Point: W21&W22-DP2

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5'</u>)				
1.	Phleum pratense	10	N	FacU
2.	Solidago canadensis	10	N	FacU
3.	Euthamia graminifolia	10	N	Fac
4.	Dactylis glomerata	20	Y	FacU
5.	Coronilla varia	50	Y	NI
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	100 = Total Cover			
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 1/11/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W22-DP1
 Investigator(s): SM/LV Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): 3-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W22</u>
Remarks: (Explain alternative procedures here or in a separate report.) Vegetated terrace adjacent to S21.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Sampling Point: W22-DP1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5'</u>)				
1.	<u>Carex sp.</u>	<u>30</u>	<u>Y</u>	<u>FacW</u>
2.	<u>Aster novi-belgii</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
3.	<u>Ranunculus sp.</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
4.	<u>Scirpus cyperinus</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
5.	<u>Verbena hastata</u>	<u>10</u>	<u>N</u>	<u>FacW</u>
6.	<u>Solidago sp.</u>	<u>30</u>	<u>Y</u>	
7.				
8.				
9.				
10.				
11.				
12.				
	<u>100</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____ x 1 = _____	
FACW species <u>70</u> x 2 = <u>140</u>	
FAC species _____ x 3 = _____	
FACU species _____ x 4 = _____	
UPL species _____ x 5 = _____	
Column Totals: <u>70</u> (A)	<u>140</u> (B)

Prevalence Index = B/A = 2

Hydrophytic Vegetation Indicators:

- Rapid Test for Hydrophytic Vegetation
- Dominance Test is >50%
- Prevalence Index is ≤3.0¹
- Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation observed.

SOIL

Sampling Point: W22-DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/1	100					SiL	
2-4	10YR 3/1	90	10YR 3/6	10	RM	PL	SiCl	Oxidized rhizospheres
4-7	10YR 4/2	90	10YR 3/6	10	D	M	SiCl	
7-16	10YR 5/1	70	10YR 5/8	10	D	M	SiCl	
			10YR 6/2	20	D	M	SiCl	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No _____

Remarks: Hydric soil observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schulyer Sampling Date: 1/24/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W23-DP1
 Investigator(s): TD Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 5-10
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W23</u>
Remarks: (Explain alternative procedures here or in a separate report.) Vegetated slope adjacent to S5.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="radio"/> Surface Water (A1) <input checked="" type="radio"/> High Water Table (A2) <input checked="" type="radio"/> Saturation (A3) <input type="radio"/> Water Marks (B1) <input type="radio"/> Sediment Deposits (B2) <input type="radio"/> Drift Deposits (B3) <input type="radio"/> Algal Mat or Crust (B4) <input type="radio"/> Iron Deposits (B5) <input type="radio"/> Inundation Visible on Aerial Imagery (B7) <input type="radio"/> Sparsely Vegetated Concave Surface (B8)	<input type="radio"/> Water-Stained Leaves (B9) <input type="radio"/> Aquatic Fauna (B13) <input type="radio"/> Marl Deposits (B15) <input type="radio"/> Hydrogen Sulfide Odor (C1) <input checked="" type="radio"/> Oxidized Rhizospheres on Living Roots (C3) <input type="radio"/> Presence of Reduced Iron (C4) <input type="radio"/> Recent Iron Reduction in Tilled Soils (C6) <input type="radio"/> Thin Muck Surface (C7) <input type="radio"/> Other (Explain in Remarks)
<input type="radio"/> Surface Soil Cracks (B6) <input type="radio"/> Drainage Patterns (B10) <input type="radio"/> Moss Trim Lines (B16) <input type="radio"/> Dry-Season Water Table (C2) <input type="radio"/> Crayfish Burrows (C8) <input type="radio"/> Saturation Visible on Aerial Imagery (C9) <input type="radio"/> Stunted or Stressed Plants (D1) <input checked="" type="radio"/> Geomorphic Position (D2) <input type="radio"/> Shallow Aquitard (D3) <input type="radio"/> Microtopographic Relief (D4) <input checked="" type="radio"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (Includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Sampling Point: W23-DP1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u>)				
1.	<u>Typha angustifolia</u>	25	N	FacW
2.	<u>Phalaris arundinacea</u>	65	Y	FacW
3.	<u>Carex sp.</u>	10	N	FacW
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
				100 = Total Cover
Woody Vine Stratum (Plot size: <u>NA</u>)				
1.				
2.				
3.				
4.				
				_____ = Total Cover

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: _____ (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)
 Hydrophytic vegetation observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Brine Pond City/County: Reading/Schuyler Sampling Date: 1/24/12
 Applicant/Owner: Finger Lakes LPG Storage, LLC State: NY Sampling Point: W23-DP2
 Investigator(s): TD Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): na Slope (%): 0-5
 Subregion (LRR or MLRA): LRR-R Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Schoharie silty clay loam NWI classification: na

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>Upland</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Fallow field</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No wetland hydrology observed.

VEGETATION – Use scientific names of plants.

Sampling Point: W23-DP2

<u>Tree Stratum</u> (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			
<u>Herb Stratum</u> (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Daucus carota</u>	<u>10</u>	<u>N</u>	<u>NI</u>	
2. <u>Solidago canadensis</u>	<u>10</u>	<u>N</u>	<u>FacU</u>	
3. <u>Erigeron strigosus</u>	<u>10</u>	<u>N</u>	<u>FacU</u>	
4. <u>Grass spp.</u>	<u>70</u>	<u>Y</u>		
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u> = Total Cover			
<u>Woody Vine Stratum</u> (Plot size: <u>NA</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

No hydrophytic vegetation observed.

SOIL

Sampling Point: W23-DP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	100					SIL	
8-20	7.5YR 5/2	80	7.5YR 5/8	20			SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

- | | | | | | |
|--|---|---|---|--|--|
| Hydric Soil Indicators: | | | Indicators for Problematic Hydric Soils³: | | |
| <input type="radio"/> Histosol (A1) | <input type="radio"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="radio"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) | | | |
| <input type="radio"/> Histic Epipedon (A2) | <input type="radio"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="radio"/> Coast Prairie Redox (A16) (LRR K, L, R) | | | |
| <input type="radio"/> Black Histic (A3) | <input type="radio"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="radio"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) | | | |
| <input type="radio"/> Hydrogen Sulfide (A4) | <input type="radio"/> Loamy Gleyed Matrix (F2) | <input type="radio"/> Dark Surface (S7) (LRR K, L) | | | |
| <input type="radio"/> Stratified Layers (A5) | <input type="radio"/> Depleted Matrix (F3) | <input type="radio"/> Polyvalue Below Surface (S8) (LRR K, L) | | | |
| <input type="radio"/> Depleted Below Dark Surface (A11) | <input type="radio"/> Redox Dark Surface (F6) | <input type="radio"/> Thin Dark Surface (S9) (LRR K, L) | | | |
| <input type="radio"/> Thick Dark Surface (A12) | <input type="radio"/> Depleted Dark Surface (F7) | <input type="radio"/> Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| <input type="radio"/> Sandy Mucky Mineral (S1) | <input type="radio"/> Redox Depressions (F8) | <input type="radio"/> Piedmont Floodplain Soils (F19) (MLRA 149B) | | | |
| <input type="radio"/> Sandy Gleyed Matrix (S4) | | <input type="radio"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | | |
| <input type="radio"/> Sandy Redox (S5) | | <input type="radio"/> Red Parent Material (TF2) | | | |
| <input type="radio"/> Stripped Matrix (S6) | | <input type="radio"/> Very Shallow Dark Surface (TF12) | | | |
| <input type="radio"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="radio"/> Other (Explain in Remarks) | | | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
---	--

Remarks:
 No hydric soil observed.

APPENDIX C
PHOTOGRAPHS



1. Former Casella Property overview, facing northwest.



2. Wetland W1, PEM isolated, facing east.



3. Wetland W2, PSS/PEM, facing north.



4. Pond W3, POW, facing east.



5. S2 and the edge of PEM portion of W2 on the former Casella Property.



6. View of S1, facing northeast and downstream.



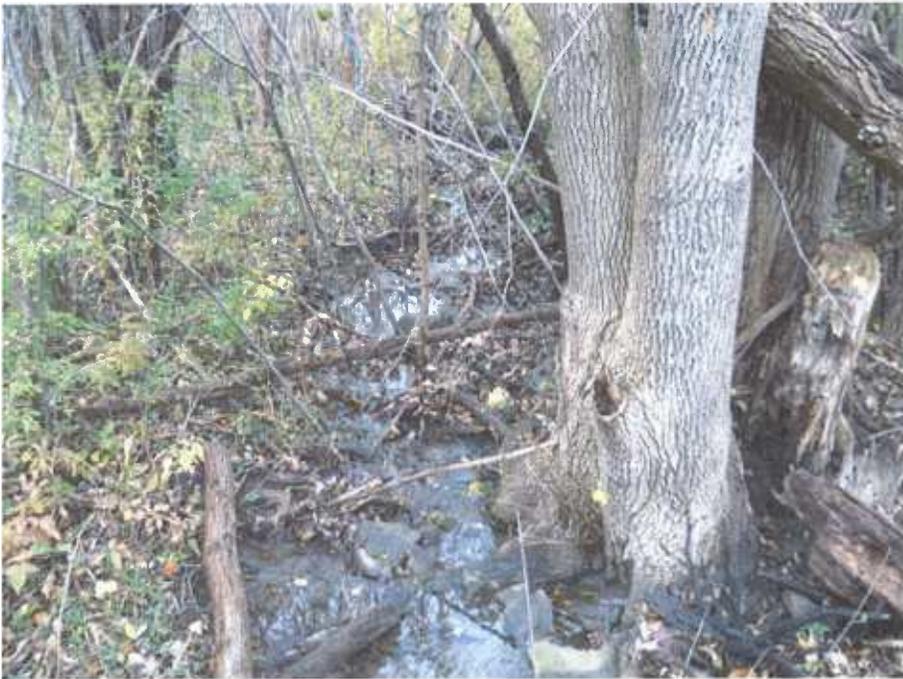
7. View of W4, facing northeast.



8. View looking north at S3, with W4 in the background.



9. View of S4, facing east.



10. View of S15, adjacent
to the Seneca Lake Compressor Station access road.



11. View looking east at W5.



12. View of S5, facing east.



13. View of S6, facing west.



14. View of S7 (same feature as S4), facing east.



15. View of S8 (same feature as S1), facing west.



16. View facing east at W6, located on an old well pad.



17. View looking east at S9 feeding and its convergence with W6.



18. View looking east at S10.



19. View of S11.



20. View of S12 and its densely vegetated banks.



21. View of W7, northeast toward S13.



22. Looking northeast at W8 along an old access road.



23. Looking west at the Scrub/shrub portion of W9 located adjacent to S11.



24. PEM portion of W9. Vegetated channel of S11, just east of NY State Route 14.



25. View of W10, just east of the NY State Route 14 and 14A intersection.



26. View, facing west, of S13 surrounded by W11.



27. View of W11, adjacent to S13.



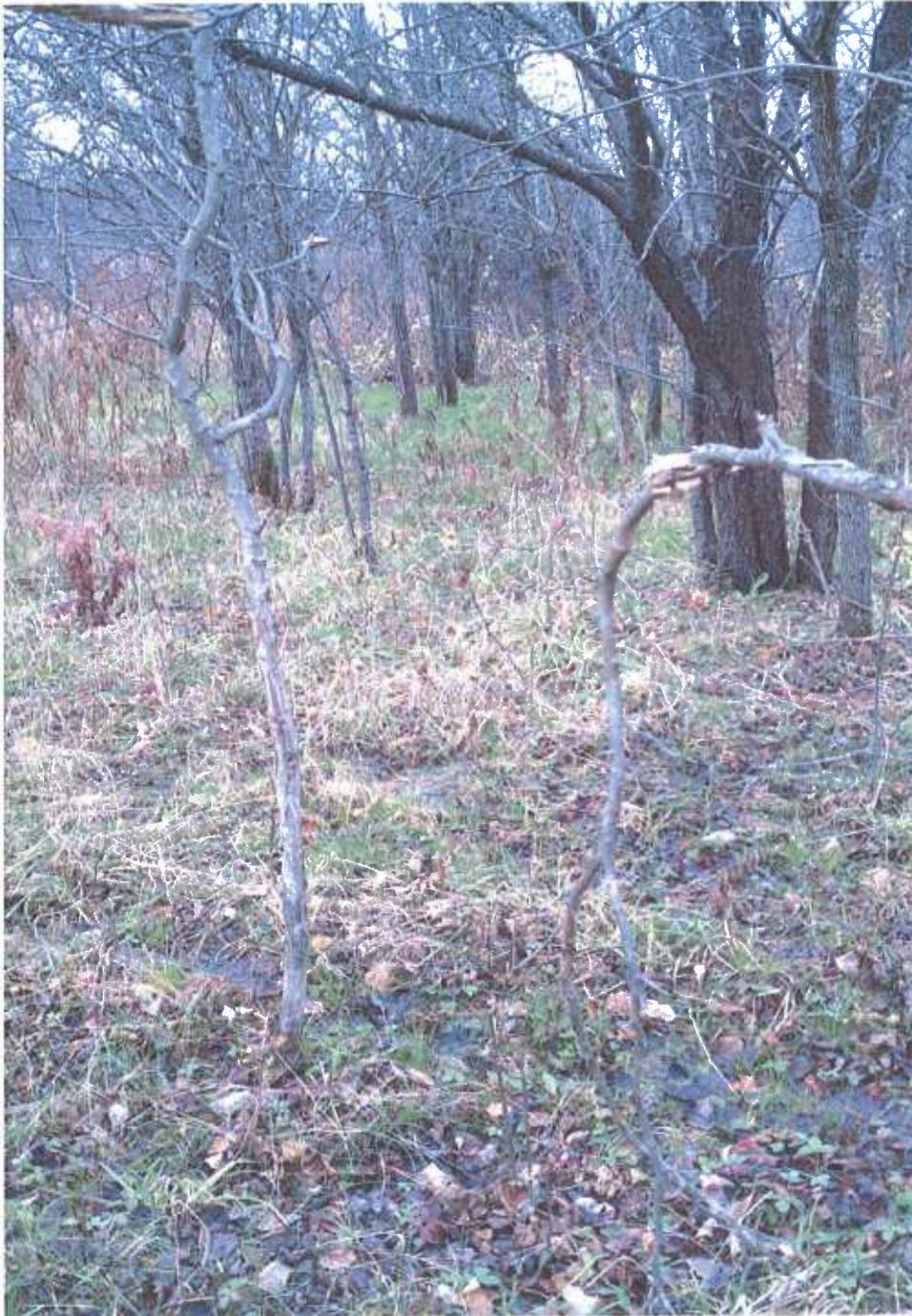
28. View of W12 associated with S14. View facing west.



29. View of S14, facing east. Photo taken at same location as W12, just facing opposite direction.



30. View of W14, facing west.



31. View of W13, facing west.



32. View of W15.



33. View looking west along NY State 14 at the upgradient source of S11.



34. Receiving storm drain for feature in Photo 30, adjacent to NY State Route 14.



35. View of cement flume and the upgradient source of S13, west of and adjacent to S.R. 14.



36. View looking west from NY State Route 14 at upgradient source of S14.



37. View of culvert pipe west of NY State Route 14 that feeds the on-site S14.



38. View of Stream S16, facing west.



39. View of ephemeral Stream S17, facing north.



40. View of W16, a PEM within a fallow agricultural field.



41. View of S21.



42. View of W20.



43. View of W21 on existing equipment pad.



44. View of W22, adjacent to S21.



45. View of W23, adjacent to S5.

APPENDIX D
SOILS DESCRIPTIONS

Map Unit Description (Brief, Generated)

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 in this report, 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.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Schuyler County, New York

Map Unit: ApB—Appleton silt loam, 3 to 8 percent slopes

Component: Appleton (80%)

The Appleton component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on drumlins, till plains. The parent material consists of calcareous loamy till derived mainly from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent.

Component: Alden (5%)

Generated brief soil descriptions are created for major components. The Alden soil is a minor component.

Component: Conesus (5%)

Generated brief soil descriptions are created for major components. The Conesus soil is a minor component.

Component: Erie (5%)

Generated brief soil descriptions are created for major components. The Erie soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: BuB—Burdett silt loam, 3 to 8 percent slopes

Component: Burdett (75%)

The Burdett component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on till plains, drumlinoid ridges, hills. The parent material consists of a thin silt mantle overlying till that is strongly influenced by shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Component: Alden (5%)

Generated brief soil descriptions are created for major components. The Alden soil is a minor component.

Component: Angola (5%)

Generated brief soil descriptions are created for major components. The Angola soil is a minor component.

Component: Appleton (5%)

Generated brief soil descriptions are created for major components. The Appleton soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major components. The Fremont soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: CsB—Conesus silt loam, 3 to 8 percent slopes**Component:** Conesus (75%)

The Conesus component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills, drumlinoid ridges, till plains. The parent material consists of loamy till derived from shale with varying components of limestone, sandstone, and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during March, April, May. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Appleton (5%)

Generated brief soil descriptions are created for major components. The Appleton soil is a minor component.

Component: Aurora (5%)

Generated brief soil descriptions are created for major components. The Aurora soil is a minor component.

Component: Lansing (5%)

Generated brief soil descriptions are created for major components. The Lansing soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: DUE3—Dunkirk and Hudson soils, steep, severely eroded**Component:** Dunkirk, severely eroded (45%)

The Dunkirk, severely eroded component makes up 45 percent of the map unit. Slopes are 25 to 35 percent. This component is on lake plains. The parent material consists of silty and clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Hudson (40%)

The Hudson component makes up 40 percent of the map unit. Slopes are 25 to 35 percent. This component is on lake plains. The parent material consists of clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Collamer (5%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Odessa (5%)

Generated brief soil descriptions are created for major components. The Odessa soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: FF—Fluvaquents-Udifluvents complex, frequently flooded

Component: Fluvaquents (40%)

The Fluvaquents component makes up 40 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of alluvium with highly variable texture. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Component: Udifluents (40%)

The Udifluents component makes up 40 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains. The parent material consists of alluvium with a wide range of texture. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 48 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria.

Component: Atkins (5%)

Generated brief soil descriptions are created for major components. The Atkins soil is a minor component.

Component: Teel (5%)

Generated brief soil descriptions are created for major components. The Teel soil is a minor component.

Component: Walkkill (5%)

Generated brief soil descriptions are created for major components. The Walkkill soil is a minor component.

Component: Wayland (5%)

Generated brief soil descriptions are created for major components. The Wayland soil is a minor component.

Map Unit: HrB—Howard gravelly loam, 3 to 8 percent slopes**Component:** Howard (80%)

The Howard component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on terraces, valley trains. The parent material consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Component: Castile (5%)

Generated brief soil descriptions are created for major components. The Castile soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Component: Philo (5%)

Generated brief soil descriptions are created for major components. The Philo soil is a minor component.

Component: Valois (5%)

Generated brief soil descriptions are created for major components. The Valois soil is a minor component.

Map Unit: LnB—Lansing gravelly silt loam, 3 to 8 percent slopes

Component: Lansing (80%)

The Lansing component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on till plains, drumlinoid ridges, hills. The parent material consists of loamy till derived from shale, limestone, sandstone, and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Component: Appleton (5%)

Generated brief soil descriptions are created for major components. The Appleton soil is a minor component.

Component: Aurora (5%)

Generated brief soil descriptions are created for major components. The Aurora soil is a minor component.

Component: Conesus (5%)

Generated brief soil descriptions are created for major components. The Conesus soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Map Unit: LnC—Lansing gravelly silt loam, 8 to 15 percent slopes

Component: Lansing (80%)

The Lansing component makes up 80 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, drumlinoid ridges, till plains. The parent material consists of loamy till derived from shale, limestone, sandstone, and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Component: Appleton (5%)

Generated brief soil descriptions are created for major components. The Appleton soil is a minor component.

Component: Aurora (5%)

Generated brief soil descriptions are created for major components. The Aurora soil is a minor component.

Component: Conesus (5%)

Generated brief soil descriptions are created for major components. The Conesus soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Map Unit: LTE—Lordstown-Arnot complex, steep

Component: Lordstown (45%)

The Lordstown component makes up 45 percent of the map unit. Slopes are 25 to 35 percent. This component is on benches, ridges, hills. The parent material consists of loamy till derived from sandstone and siltstone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Arnot (40%)

The Arnot component makes up 40 percent of the map unit. Slopes are 25 to 35 percent. This component is on hills, ridges, benches. The parent material consists of loamy till derived mainly from acid sandstone, siltstone, and shale. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Component: Bath (5%)

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

Component: Unnamed soils (4%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Component: Valois (4%)

Generated brief soil descriptions are created for major components. The Valois soil is a minor component.

Component: Rock outcrop (2%)

Generated brief soil descriptions are created for major components. The Rock outcrop soil is a minor component.

Map Unit: OdB—Odessa silt loam, 3 to 8 percent slopes**Component:** Odessa (75%)

The Odessa component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on lake plains. The parent material consists of reddish clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 6 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent.

Component: Burdett (5%)

Generated brief soil descriptions are created for major components. The Burdett soil is a minor component.

Component: Collamer (5%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Madalin (5%)

Generated brief soil descriptions are created for major components. The Madalin soil is a minor component.

Component: Rhinebeck (5%)

Generated brief soil descriptions are created for major components. The Rhinebeck soil is a minor component.

Component: Schoharie (5%)

Generated brief soil descriptions are created for major components. The Schoharie soil is a minor component.

Map Unit: ScB3—Schoharie silty clay loam, 3 to 8 percent slopes, severely eroded

Component: Schoharie (75%)

The Schoharie component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on lake plains. The parent material consists of reddish clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent.

Component: Collamer (5%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Dunkirk (5%)

Generated brief soil descriptions are created for major components. The Dunkirk soil is a minor component.

Component: Hudson (5%)

Generated brief soil descriptions are created for major components. The Hudson soil is a minor component.

Component: Odessa (5%)

Generated brief soil descriptions are created for major components. The Odessa soil is a minor component.

Component: Schoharie, variant (5%)

Generated brief soil descriptions are created for major components. The Schoharie soil is a minor component.

Map Unit: ScC3—Schoharie silty clay loam, 8 to 15 percent slopes, severely eroded

Component: Schoharie (75%)

The Schoharie component makes up 75 percent of the map unit. Slopes are 8 to 15 percent. This component is on lake plains. The parent material consists of reddish clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent.

Component: Collamer (5%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Dunkirk (5%)

Generated brief soil descriptions are created for major components. The Dunkirk soil is a minor component.

Component: Hudson (5%)

Generated brief soil descriptions are created for major components. The Hudson soil is a minor component.

Component: Odessa (5%)

Generated brief soil descriptions are created for major components. The Odessa soil is a minor component.

Component: Schoharie, variant (5%)

Generated brief soil descriptions are created for major components. The Schoharie soil is a minor component.

Map Unit: ScD3—Schoharie silty clay loam, 15 to 25 percent slopes, severely eroded

Component: Schoharie (75%)

The Schoharie component makes up 75 percent of the map unit. Slopes are 15 to 25 percent. This component is on lake plains. The parent material consists of reddish clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent.

Component: Collamer (5%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Dunkirk (5%)

Generated brief soil descriptions are created for major components. The Dunkirk soil is a minor component.

Component: Hudson (5%)

Generated brief soil descriptions are created for major components. The Hudson soil is a minor component.

Component: Odessa (5%)

Generated brief soil descriptions are created for major components. The Odessa soil is a minor component.

Component: Schoharie, variant (5%)

Generated brief soil descriptions are created for major components. The Schoharie soil is a minor component.

Map Unit: ShD3—Schoharie variant silty clay loam, 15 to 25 percent slopes, severely eroded

Component: Schoharie variant (75%)

The Schoharie variant component makes up 75 percent of the map unit. Slopes are 15 to 25 percent. This component is on lake plains. The parent material consists of reddish clayey and silty glaciolacustrine deposits. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Dunkirk (5%)

Generated brief soil descriptions are created for major components. The Dunkirk soil is a minor component.

Component: Hudson (5%)

Generated brief soil descriptions are created for major components. The Hudson soil is a minor component.

Component: Odessa (5%)

Generated brief soil descriptions are created for major components. The Odessa soil is a minor component.

Component: Schoharie (5%)

Generated brief soil descriptions are created for major components. The Schoharie soil is a minor component.

Component: Collamer (4%)

Generated brief soil descriptions are created for major components. The Collamer soil is a minor component.

Component: Rock outcrop (1%)

Generated brief soil descriptions are created for major components. The Rock outcrop soil is a minor component.

Map Unit: VaB—Valois gravelly silt loam, 3 to 8 percent slopes

Component: Valois (80%)

The Valois component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on end moraines, valley sides, lateral moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Bath (5%)

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

Component: Howard (5%)

Generated brief soil descriptions are created for major components. The Howard soil is a minor component.

Component: Lansing (5%)

Generated brief soil descriptions are created for major components. The Lansing soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Map Unit: VEE—Valois soils, steep

Component: Valois (75%)

The Valois component makes up 75 percent of the map unit. Slopes are 25 to 35 percent. This component is on lateral moraines, valley sides, end moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Bath (5%)

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Component: Lansing (5%)

Generated brief soil descriptions are created for major components. The Lansing soil is a minor component.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major components. The Lordstown soil is a minor component.

Component: Volusia (5%)

Generated brief soil descriptions are created for major components. The Volusia soil is a minor component.

Map Unit: VHF—Valois and Howard soils, very steep

Component: Valois (40%)

The Valois component makes up 40 percent of the map unit. Slopes are 35 to 50 percent. This component is on end moraines, valley sides, lateral moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Component: Howard (35%)

The Howard component makes up 35 percent of the map unit. Slopes are 35 to 60 percent. This component is on terraces, valley trains. The parent material consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Component: Bath (5%)

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Component: Lansing (5%)

Generated brief soil descriptions are created for major components. The Lansing soil is a minor component.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major components. The Lordstown soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: VoB—Volusia channery silt loam, 3 to 8 percent slopes**Component:** Volusia (75%)

The Volusia component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills, drumlinoid ridges, till plains. The parent material consists of loamy till derived mainly from siltstone, sandstone, and shale or slate. Depth to a root restrictive layer, fragipan, is 10 to 22 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major components. The Chippewa soil is a minor component.

Component: Erie (5%)

Generated brief soil descriptions are created for major components. The Erie soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major components. The Fremont soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: VoC—Volusia channery silt loam, 8 to 15 percent slopes**Component: Volusia (75%)**

The Volusia component makes up 75 percent of the map unit. Slopes are 8 to 15 percent. This component is on till plains, drumlinoid ridges, hills. The parent material consists of loamy till derived mainly from siltstone, sandstone, and shale or slate. Depth to a root restrictive layer, fragipan, is 10 to 22 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major components. The Chippewa soil is a minor component.

Component: Erie (5%)

Generated brief soil descriptions are created for major components. The Erie soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major components. The Fremont soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Component: Unnamed soils (5%)

Generated brief soil descriptions are created for major components. The Unnamed soils soil is a minor component.

Map Unit: W—Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Data Source Information

Soil Survey Area: Schuyler County, New York

Survey Area Data: Version 8, Dec 20, 2011

E



February 14, 2012

Ms. Margaret Crawford
Biologist
U.S. Army Corps of Engineers
Regulatory Branch - Auburn Field Office
7413 County House Road
Auburn, New York 13021

RE: Request for Preliminary Jurisdictional Determination
Finger Lakes Storage, LLC Liquid Propane Gas (LPG) Storage System Project
Town of Reading, Schuyler County, New York

Ms. Crawford:

Finger Lakes LPG Storage, LLC would like to request Preliminary Jurisdictional Determinations (JD) for the Finger Lakes Storage, LLC Liquid Propane Gas (LPG) Storage System Project in the Town of Reading, Schuyler County, New York. The Project is to include a rail/truck area, Plant area, brine pond(s), pipeline(s), and transmission line. Figure 1 shows the location of the study area.

The western portion of the study area includes an approximately 37-acre parcel (former Casella Property) located approximately 1,200 feet from the NYS Route 14 and 14A intersection. The central portion of the study area extends from the Casella Property, east, to the larger US Salts facility that borders Seneca Lake. The wetland delineations were conducted on an approximately 37-acre Casella property, a 150-foot wide corridor along the proposed pipeline right-of-way (ROW), and an approximately 50-acre area on the larger US Salt property to be used for the construction of a brine pond(s).

The facility will consist of a rail siding and truck loading area with associated offices and storage tanks at a surface facility located on NYS Route 14A, a plant area (located on US Salt property adjacent to the driveway to its existing brine field) that will transfer gas between the storage caverns and the rail siding and truck loading area, underground storage caverns which will store the gas, and brine storage ponds that will store a significant portion of the brine displaced from the caverns as LPG gas is pumped in. The system will utilize new pipelines that will interconnect all of the sites, in addition to the neighboring Enterprise Products facility (formerly owned by Texas Eastern Products Pipeline Company ["TEPPCO"] and sometimes called the TEPPCO facility) to allow for transfer of LPG and brine.

AK Environmental, LLC | www.ak-env.com

850 Bear Tavern Road
Suite 106
W. Trenton, NJ 08628
t. 609.771.1730
f. 609.771.173

4819 Emperor Blvd.
Suite 400
Durham, NC 27703
t. 919.313.4565
f. 919.882.1322

PO Box 2893
Aiken, SC 29804
t. 803.508.5714

27 Powwow River Road
East Kingston, NH 03827
t. 603.347.1032
f. 603-215-0793

5020 Ritter Road
Suite 206
Mechanicsburg, PA 17055
t. 717.458.8035
f. 717.307.3463



A complete copy of the Wetland Identification & Delineation Report (Addendum II) is enclosed as part of the Pre-Construction Notification (PCN). Finger Lakes LPG Storage, LLC. would like to request an onsite JD at your earliest convenience.

If you have any questions or comments, please feel free to contact our office at (717) 458-8035.

Sincerely,

Scott V. Mowery, PWS
Wetland Scientist

Attachments

cc: Mike LeRose, Inergy
Kevin Bernstein, Esq., Bond, Schoeneck & King, PLLC

AK Environmental, LLC | www.ak-env.com

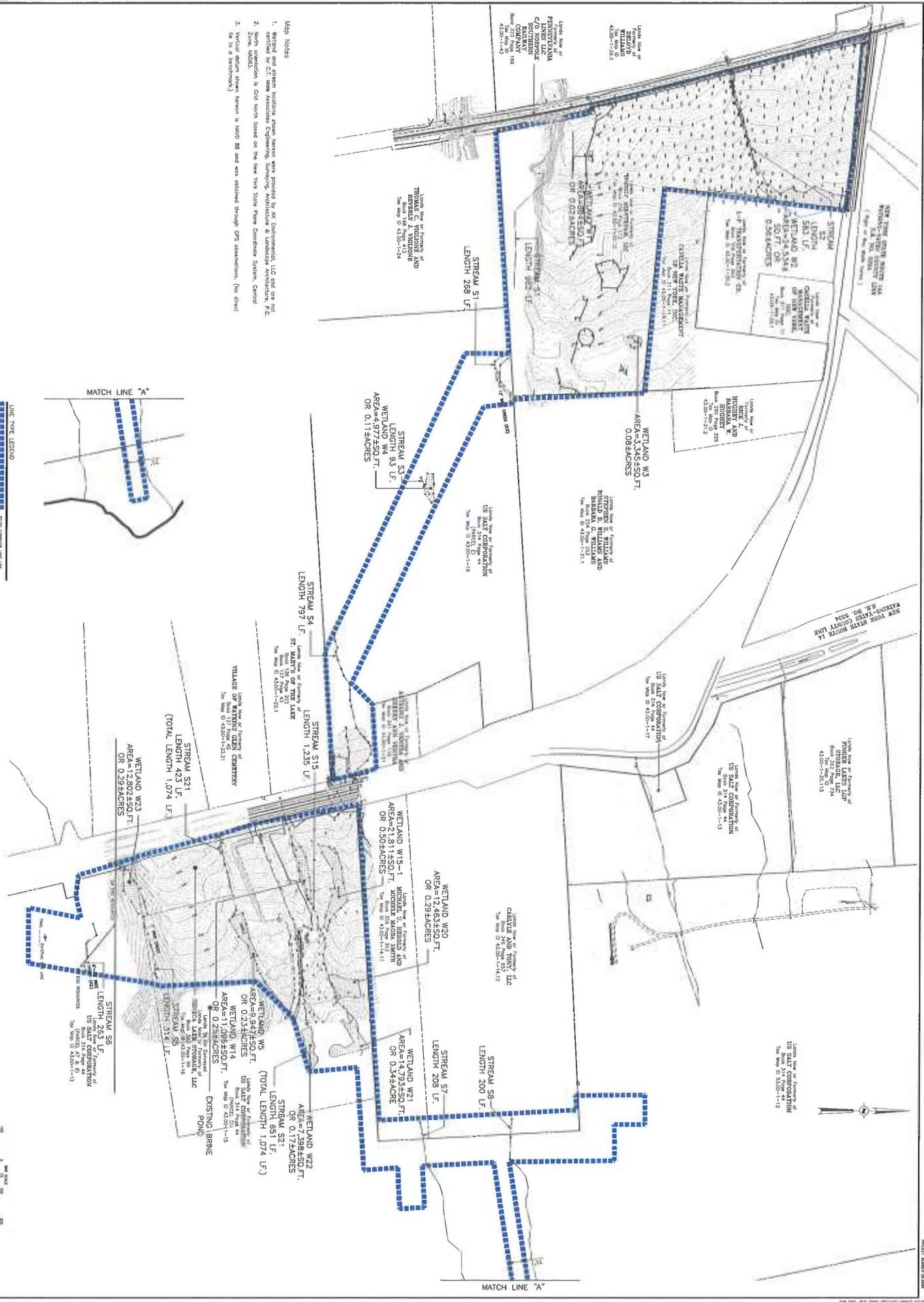
850 Bear Tavern Road
Suite 106
W. Trenton, NJ 08628
t. 609.771.1730
f. 609.771.173

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Durham, NC 27703
t. 919.313.4565
f. 919.882.1322

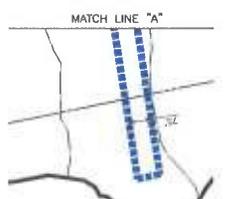
PO Box 2893
Aiken, SC 29804
t. 803.508.5714

27 Powwow River Road
East Kingston, NH 03827
t. 603.347.1032
f. 603-215-0793

5020 Ritter Road
Suite 206
Mechanicsburg, PA 17055
t. 717.458.8035
f. 717.307.3463



- Map Notes**
1. Wetland and stream locations shown herein were provided by M. Environmental, LLC and are not certified by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, P.C.
 2. Zone 2 wetland is not shown based on the New York State Flood Control System Control.
 3. Vertical datum shown herein is NAVD 88 and was obtained through GPS observation. (No direct tie to a benchmark.)



LINE TYPE LEGEND



NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMITS	08/14/2013	JLM	JLM
2	REVISED PER COMMENTS	08/14/2013	JLM	JLM
3	REVISED PER COMMENTS	08/14/2013	JLM	JLM
4	REVISED PER COMMENTS	08/14/2013	JLM	JLM
5	REVISED PER COMMENTS	08/14/2013	JLM	JLM
6	REVISED PER COMMENTS	08/14/2013	JLM	JLM
7	REVISED PER COMMENTS	08/14/2013	JLM	JLM
8	REVISED PER COMMENTS	08/14/2013	JLM	JLM
9	REVISED PER COMMENTS	08/14/2013	JLM	JLM
10	REVISED PER COMMENTS	08/14/2013	JLM	JLM
11	REVISED PER COMMENTS	08/14/2013	JLM	JLM
12	REVISED PER COMMENTS	08/14/2013	JLM	JLM
13	REVISED PER COMMENTS	08/14/2013	JLM	JLM
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24	REVISED PER COMMENTS	08/14/2013	JLM	JLM
25	REVISED PER COMMENTS	08/14/2013	JLM	JLM
26	REVISED PER COMMENTS	08/14/2013	JLM	JLM
27	REVISED PER COMMENTS	08/14/2013	JLM	JLM
28	REVISED PER COMMENTS	08/14/2013	JLM	JLM
29	REVISED PER COMMENTS	08/14/2013	JLM	JLM
30	REVISED PER COMMENTS	08/14/2013	JLM	JLM

PROJECT INFORMATION

PROJECT NAME: FINGER LAKES LIP STORAGE, LLC

CLIENT: FINGER LAKES LIP STORAGE, LLC

DATE: 08/14/2013

SCALE: 1" = 50'

DATE: 08/14/2013

PROJECT LOCATION: 30 CANTON ROAD, WEST WINDSOR, NY 14180

PROJECT NO.: 12-000

DATE: 08/14/2013

PROJECT NO.: 12-000

DATE: 08/14/2013

DESIGNER: C.T. MALE ASSOCIATES

ENGINEER: JLM

DATE: 08/14/2013

PROJECT INFORMATION

PROJECT NAME: FINGER LAKES LIP STORAGE, LLC

CLIENT: FINGER LAKES LIP STORAGE, LLC

DATE: 08/14/2013

SCALE: 1" = 50'

DATE: 08/14/2013

PROJECT LOCATION: 30 CANTON ROAD, WEST WINDSOR, NY 14180

PROJECT NO.: 12-000

DATE: 08/14/2013

PROJECT NO.: 12-000

DATE: 08/14/2013

DESIGNER: C.T. MALE ASSOCIATES

ENGINEER: JLM

DATE: 08/14/2013



Lands Now or Formerly of
FINGER LAKES LGP STORAGE, LLC
Book 362 Page 734
Tax Map ID 43.00-1-35.113

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 53.00-1-12

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-13

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-17

Lands Now or Formerly of
CARLYLE AND TONY, LLC
Book 349 Page 637
Tax Map ID 43.00-1-14.12

Lands Now or Formerly of
ANTHONY J. VENTRA AND HERRY ANN VENTRA
Book 241 Page 118
Tax Map ID 43.00-1-21

WETLAND W15-1
AREA=21,811±SQ.FT.
OR 0.50±ACRES

Lands Now or Formerly of
MICHAEL U. HEROLD AND MICHELE MAGDA SMITH
Book 356 Page 363
Tax Map ID 43.00-1-14.11

WETLAND W20
AREA=12,463±SQ.FT.
OR 0.29±ACRES

STREAM S8
LENGTH 200 LF.

STREAM S7
LENGTH 208 LF.

WETLAND W21
AREA=14,793±SQ.FT.
OR 0.34±ACRE

MATCH LINE "A"

Lands Now or Formerly of
MARY'S OF THE LAKE
Book 136 Page 202
Book 127 Page 43
Tax Map ID 43.00-1-22.1

STREAM S15
LENGTH 1,235 LF.

WETLAND W22
AREA=7,398±SQ.FT.
OR 0.17±ACRES

STREAM S21
LENGTH 651 LF.
(TOTAL LENGTH 1,074 LF.)

Lands Now or Formerly of
VILLAGE OF WATKINS GLEN CEMETERY
Book 127 Page 45
Tax Map ID 43.00-1-22.21

WETLAND W5
AREA=9,947±SQ.FT.
OR 0.23±ACRES

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
(PARCEL D1)
Tax Map ID 43.00-1-15

WETLAND W14
AREA=11,096±SQ.FT.
OR 0.25±ACRES

EXISTING BRINE POND

Lands To Be Conveyed
Lands Now or Formerly of
SENECA LAKE STORAGE, LLC
Book 322 Page 99
Tax Map ID 43.00-1-16

STREAM S21
LENGTH 423 LF.
(TOTAL LENGTH 1,074 LF.)

STREAM S5
LENGTH 314 LF.

WETLAND W23
AREA=12,802±SQ.FT.
OR 0.29±ACRES

STREAM S6
LENGTH 263 LF.

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
(PARCEL 67 & 9)
Tax Map ID 43.00-1-12



DATE	REVISIONS	RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	APPROVED ALTERNATE OR APPROVER OF THE DOCUMENT IS A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

JD MAP
PREPARED FOR
FINGER LAKES LGP STORAGE, LLC

TOWN OF READING SCHUYLER COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299

DATE: MAR. 15, 2012

APPROVED: JFC

DRAFTED: MMB

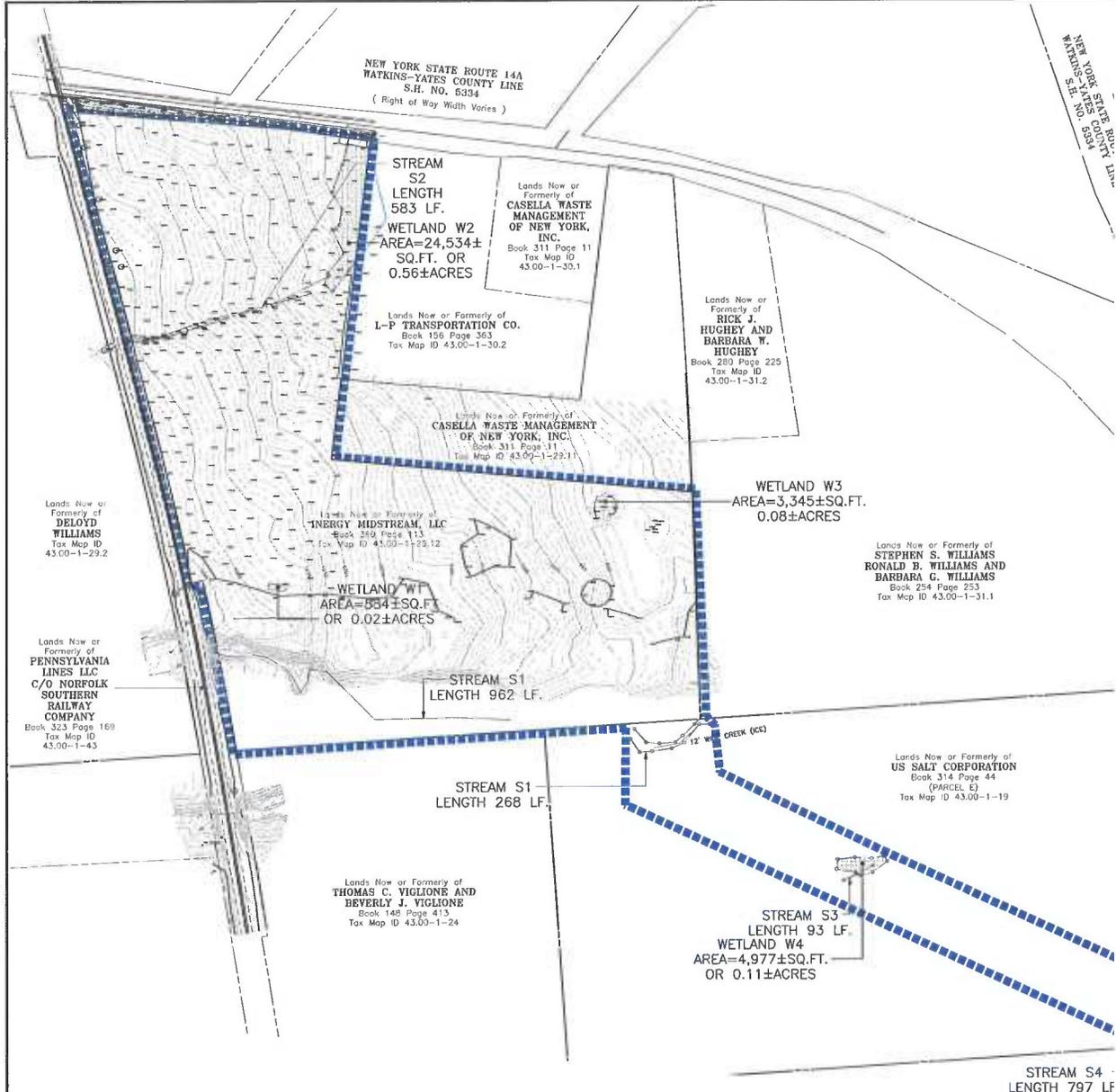
CHECKED: JFC

PROD. NO: 08.06.09

SCALE: 1"=150'

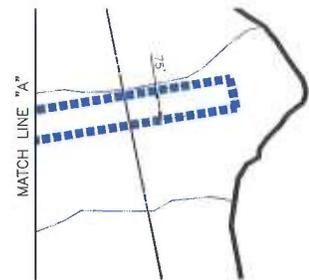
DATE: MAR. 15, 2012

SHEET 1 OF 1
DWG. NO: 12-XXX



Map Notes

1. Wetland and stream locations shown hereon were provided by AK Environmental, LLC and are not certified by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, P.C.
2. North orientation is Grid North based on the New York State Plane Coordinate System, Central Zone, NAD83.
3. Vertical datum shown hereon is NAVD 88 and was obtained through GPS observations. (No direct tie to a benchmark.)



048 DWG, P&E, NAME, WETLAND-IMPACT-CONTR.DWG

ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY.

F

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • Fax: (518) 402-8925
Website: www.dec.ny.gov



Joe Martens
Commissioner

December 13, 2011

Tony Di Lella
AK Environmental, LLC
850 Bear Tavern Rd, Suite 106
West Trenton, NJ 08628

Dear Mr. Di Lella:

In response to your recent request, we have reviewed the New York Natural Heritage Program database, with respect to an Environmental Assessment for the proposed Conversion of Salt Caverns to Gas Storage Facility, site as indicated on the map you provided, located in the Town of Reading, Schuyler County

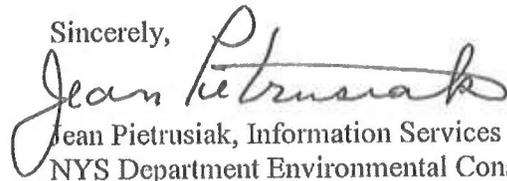
We have no records of rare or state listed animals or plants, significant natural communities or other significant habitats, on or in the immediate vicinity of your site.

The absence of data does not necessarily mean that rare or state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities and other significant habitats maintained in the Natural Heritage Data bases. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,


Jean Pietrusiak, Information Services
NYS Department Environmental Conservation

Enc.
cc: Region 8

#1207

G



New York State Office of Parks, Recreation and Historic Preservation

Historic Preservation Field Services Bureau • Peebles Island, PO Box 189, Waterford, New York 12188-0189

518-237-8643

www.nysparks.com

David A. Paterson
Governor

Carol Ash
Commissioner

October 14, 2009

RECEIVED

OCT 16 2009

BOND, SCHOENECK & KING, PLLC

✓ Kevin M. Bernstein
Bond, Schoeneck & King, PLLC
One Lincoln Center
Syracuse, New York 13202

Re: DEC, PSC
Finger Lakes LPG Storage Facility Project
NY 14 & 14A
READING, Schuyler County
09PR04982

Dear Mr. Bernstein:

Thank you for requesting the comments of the Field Services Bureau of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Field Services Bureau and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

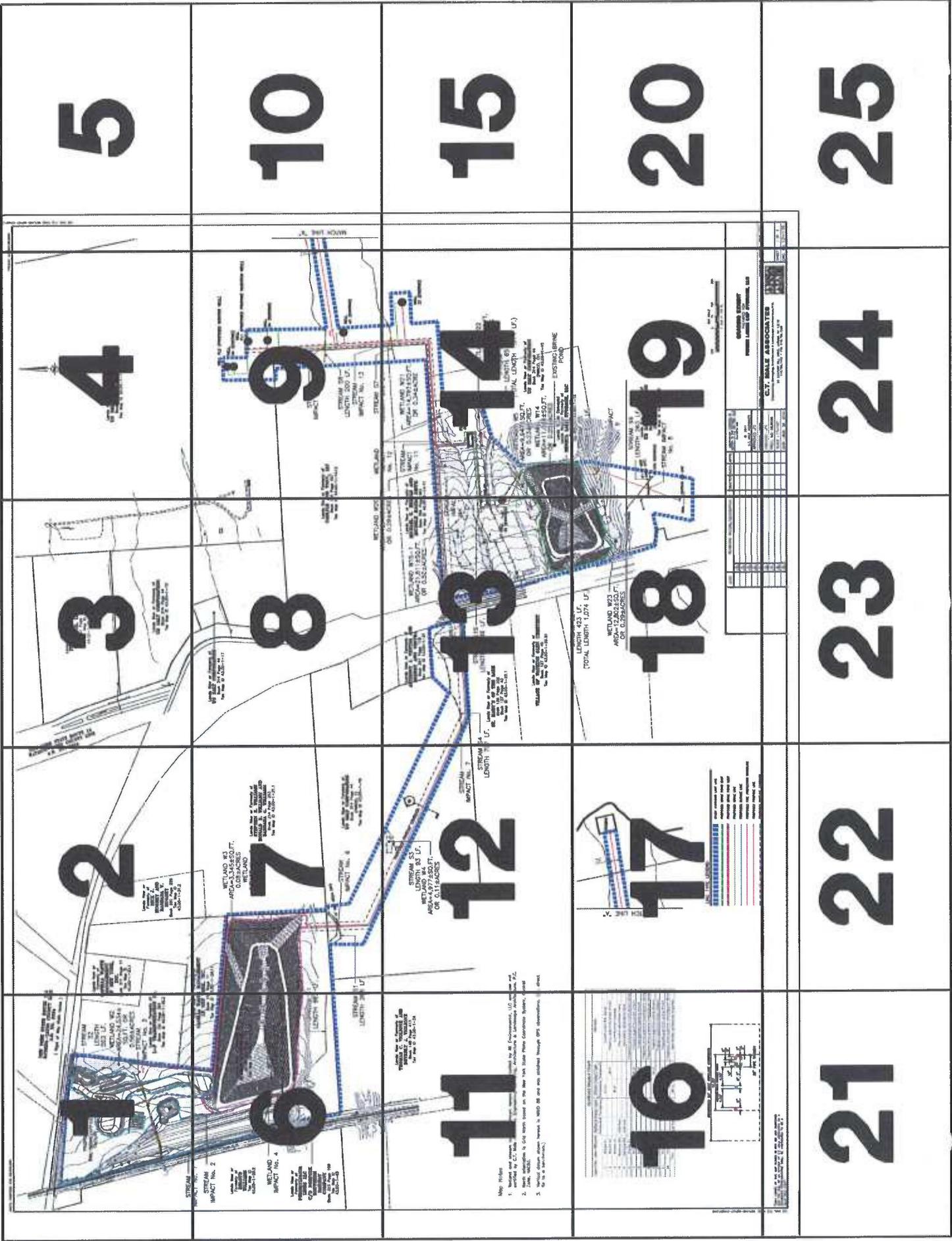
Based upon this review, it is the OPRHP's opinion that your project will have No Impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places.

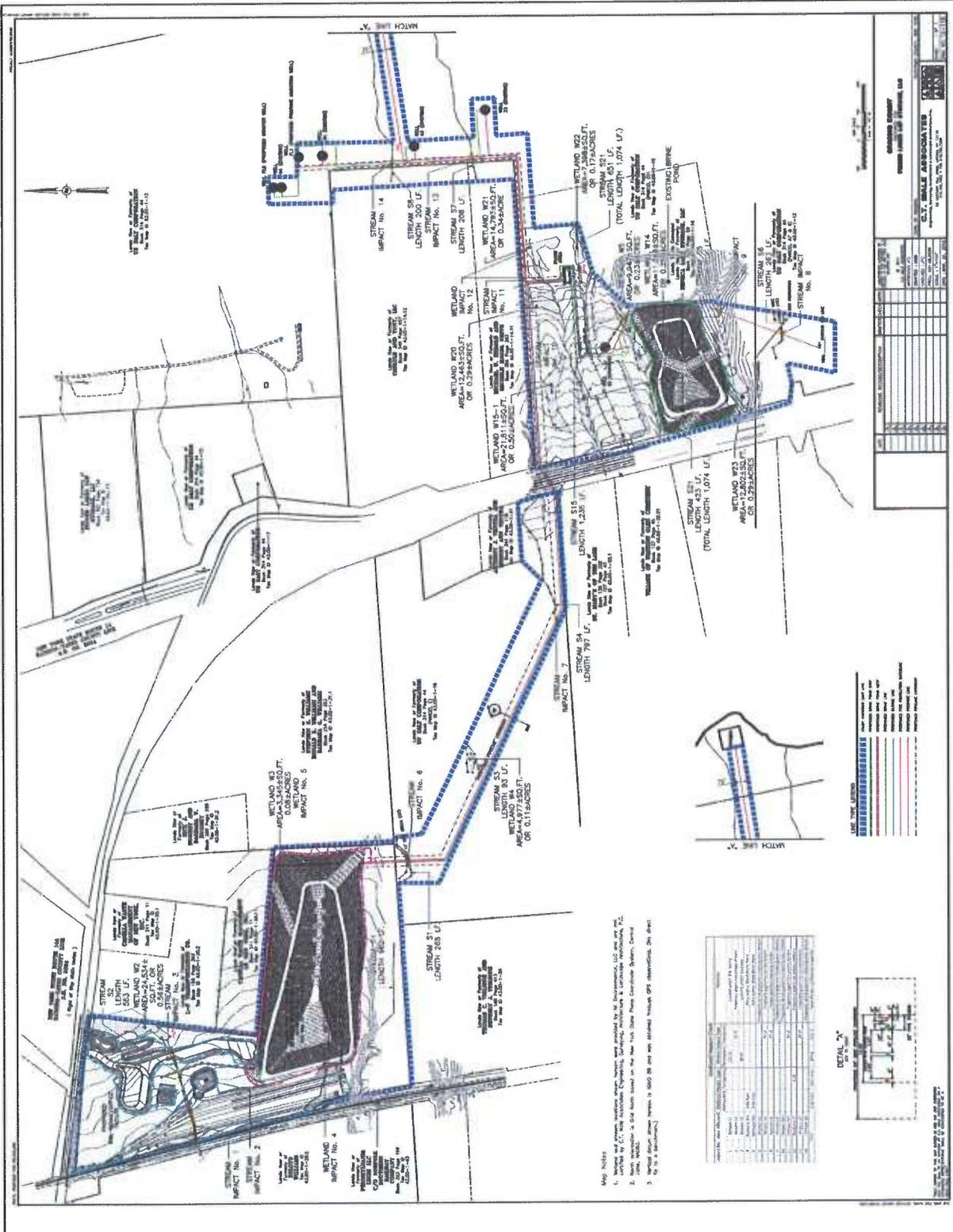
If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont
Director

H





Legend

- Stream
- Wetland
- Impact Area
- Other

Table 1: Stream Data

Stream No.	Length (LF)	Area (AC)
1	100	0.1
2	200	0.2
3	300	0.3
4	400	0.4
5	500	0.5
6	600	0.6
7	700	0.7
8	800	0.8
9	900	0.9
10	1000	1.0
11	1100	1.1
12	1200	1.2
13	1300	1.3
14	1400	1.4
15	1500	1.5
16	1600	1.6
17	1700	1.7
18	1800	1.8
19	1900	1.9
20	2000	2.0
21	2100	2.1
22	2200	2.2
23	2300	2.3
24	2400	2.4
25	2500	2.5
26	2600	2.6
27	2700	2.7
28	2800	2.8
29	2900	2.9
30	3000	3.0
31	3100	3.1
32	3200	3.2
33	3300	3.3
34	3400	3.4
35	3500	3.5
36	3600	3.6
37	3700	3.7
38	3800	3.8
39	3900	3.9
40	4000	4.0
41	4100	4.1
42	4200	4.2
43	4300	4.3
44	4400	4.4
45	4500	4.5
46	4600	4.6
47	4700	4.7
48	4800	4.8
49	4900	4.9
50	5000	5.0
51	5100	5.1
52	5200	5.2
53	5300	5.3
54	5400	5.4
55	5500	5.5
56	5600	5.6
57	5700	5.7
58	5800	5.8
59	5900	5.9
60	6000	6.0
61	6100	6.1
62	6200	6.2
63	6300	6.3
64	6400	6.4
65	6500	6.5
66	6600	6.6
67	6700	6.7
68	6800	6.8
69	6900	6.9
70	7000	7.0
71	7100	7.1
72	7200	7.2
73	7300	7.3
74	7400	7.4
75	7500	7.5
76	7600	7.6
77	7700	7.7
78	7800	7.8
79	7900	7.9
80	8000	8.0
81	8100	8.1
82	8200	8.2
83	8300	8.3
84	8400	8.4
85	8500	8.5
86	8600	8.6
87	8700	8.7
88	8800	8.8
89	8900	8.9
90	9000	9.0
91	9100	9.1
92	9200	9.2
93	9300	9.3
94	9400	9.4
95	9500	9.5
96	9600	9.6
97	9700	9.7
98	9800	9.8
99	9900	9.9
100	10000	10.0

Table 2: Wetland Data

Wetland No.	Area (AC)
W1	0.1
W2	0.2
W3	0.3
W4	0.4
W5	0.5
W6	0.6
W7	0.7
W8	0.8
W9	0.9
W10	1.0
W11	1.1
W12	1.2
W13	1.3
W14	1.4
W15	1.5
W16	1.6
W17	1.7
W18	1.8
W19	1.9
W20	2.0
W21	2.1
W22	2.2
W23	2.3
W24	2.4
W25	2.5
W26	2.6
W27	2.7
W28	2.8
W29	2.9
W30	3.0
W31	3.1
W32	3.2
W33	3.3
W34	3.4
W35	3.5
W36	3.6
W37	3.7
W38	3.8
W39	3.9
W40	4.0
W41	4.1
W42	4.2
W43	4.3
W44	4.4
W45	4.5
W46	4.6
W47	4.7
W48	4.8
W49	4.9
W50	5.0
W51	5.1
W52	5.2
W53	5.3
W54	5.4
W55	5.5
W56	5.6
W57	5.7
W58	5.8
W59	5.9
W60	6.0
W61	6.1
W62	6.2
W63	6.3
W64	6.4
W65	6.5
W66	6.6
W67	6.7
W68	6.8
W69	6.9
W70	7.0
W71	7.1
W72	7.2
W73	7.3
W74	7.4
W75	7.5
W76	7.6
W77	7.7
W78	7.8
W79	7.9
W80	8.0
W81	8.1
W82	8.2
W83	8.3
W84	8.4
W85	8.5
W86	8.6
W87	8.7
W88	8.8
W89	8.9
W90	9.0
W91	9.1
W92	9.2
W93	9.3
W94	9.4
W95	9.5
W96	9.6
W97	9.7
W98	9.8
W99	9.9
W100	10.0

Table 3: Impact Data

Impact No.	Length (LF)
I1	100
I2	200
I3	300
I4	400
I5	500
I6	600
I7	700
I8	800
I9	900
I10	1000
I11	1100
I12	1200
I13	1300
I14	1400
I15	1500
I16	1600
I17	1700
I18	1800
I19	1900
I20	2000
I21	2100
I22	2200
I23	2300
I24	2400
I25	2500
I26	2600
I27	2700
I28	2800
I29	2900
I30	3000
I31	3100
I32	3200
I33	3300
I34	3400
I35	3500
I36	3600
I37	3700
I38	3800
I39	3900
I40	4000
I41	4100
I42	4200
I43	4300
I44	4400
I45	4500
I46	4600
I47	4700
I48	4800
I49	4900
I50	5000
I51	5100
I52	5200
I53	5300
I54	5400
I55	5500
I56	5600
I57	5700
I58	5800
I59	5900
I60	6000
I61	6100
I62	6200
I63	6300
I64	6400
I65	6500
I66	6600
I67	6700
I68	6800
I69	6900
I70	7000
I71	7100
I72	7200
I73	7300
I74	7400
I75	7500
I76	7600
I77	7700
I78	7800
I79	7900
I80	8000
I81	8100
I82	8200
I83	8300
I84	8400
I85	8500
I86	8600
I87	8700
I88	8800
I89	8900
I90	9000
I91	9100
I92	9200
I93	9300
I94	9400
I95	9500
I96	9600
I97	9700
I98	9800
I99	9900
I100	10000

Table 4: Other Data

Other No.	Value
O1	100
O2	200
O3	300
O4	400
O5	500
O6	600
O7	700
O8	800
O9	900
O10	1000
O11	1100
O12	1200
O13	1300
O14	1400
O15	1500
O16	1600
O17	1700
O18	1800
O19	1900
O20	2000
O21	2100
O22	2200
O23	2300
O24	2400
O25	2500
O26	2600
O27	2700
O28	2800
O29	2900
O30	3000
O31	3100
O32	3200
O33	3300
O34	3400
O35	3500
O36	3600
O37	3700
O38	3800
O39	3900
O40	4000
O41	4100
O42	4200
O43	4300
O44	4400
O45	4500
O46	4600
O47	4700
O48	4800
O49	4900
O50	5000
O51	5100
O52	5200
O53	5300
O54	5400
O55	5500
O56	5600
O57	5700
O58	5800
O59	5900
O60	6000
O61	6100
O62	6200
O63	6300
O64	6400
O65	6500
O66	6600
O67	6700
O68	6800
O69	6900
O70	7000
O71	7100
O72	7200
O73	7300
O74	7400
O75	7500
O76	7600
O77	7700
O78	7800
O79	7900
O80	8000
O81	8100
O82	8200
O83	8300
O84	8400
O85	8500
O86	8600
O87	8700
O88	8800
O89	8900
O90	9000
O91	9100
O92	9200
O93	9300
O94	9400
O95	9500
O96	9600
O97	9700
O98	9800
O99	9900
O100	10000

Table 5: Summary Data

Category	Value
Total Stream Length	10000 LF
Total Wetland Area	100 AC
Total Impact Length	10000 LF
Total Other Value	10000

Table 6: Project Information

Field	Value
Project Name	Wetland and Stream Impact Assessment
Client	ABC Company
Location	123 Main Street, City, State
Date	10/20/2023
Scale	1" = 100'
Author	John Doe
Reviewer	Jane Smith
Appr. Date	10/20/2023
Appr. Name	John Doe
Appr. Title	Project Manager
Appr. Firm	ABC Associates

Table 7: Revision Log

Rev. No.	Description	Date
1	Initial Issue	10/20/2023
2	Revised Stream Lengths	10/25/2023
3	Added Wetland Areas	11/05/2023
4	Final Review	11/15/2023

Table 8: Detail 1

Detail No.	Description
D1	Stream Impact Detail
D2	Wetland Impact Detail
D3	Impact Area Detail

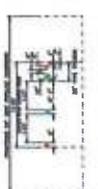
Table 9: Legend

- Stream
- Wetland
- Impact Area
- Other

Map notes:

1. Wetland and stream boundaries were derived from the 2010 Environmental, USGS and are not verified by C.T. Scale Associates. Engineering, Surveying, Architecture & Landscape Architecture, P.C.
2. Other, impact, wetland, and stream boundaries were derived from the 2010 State Plane Coordinate System, datum.
3. Wetland and stream boundaries were derived from the 2010 USGS data with additional stream observations. See sheet 10 for a description.

DETAIL 1



Legend

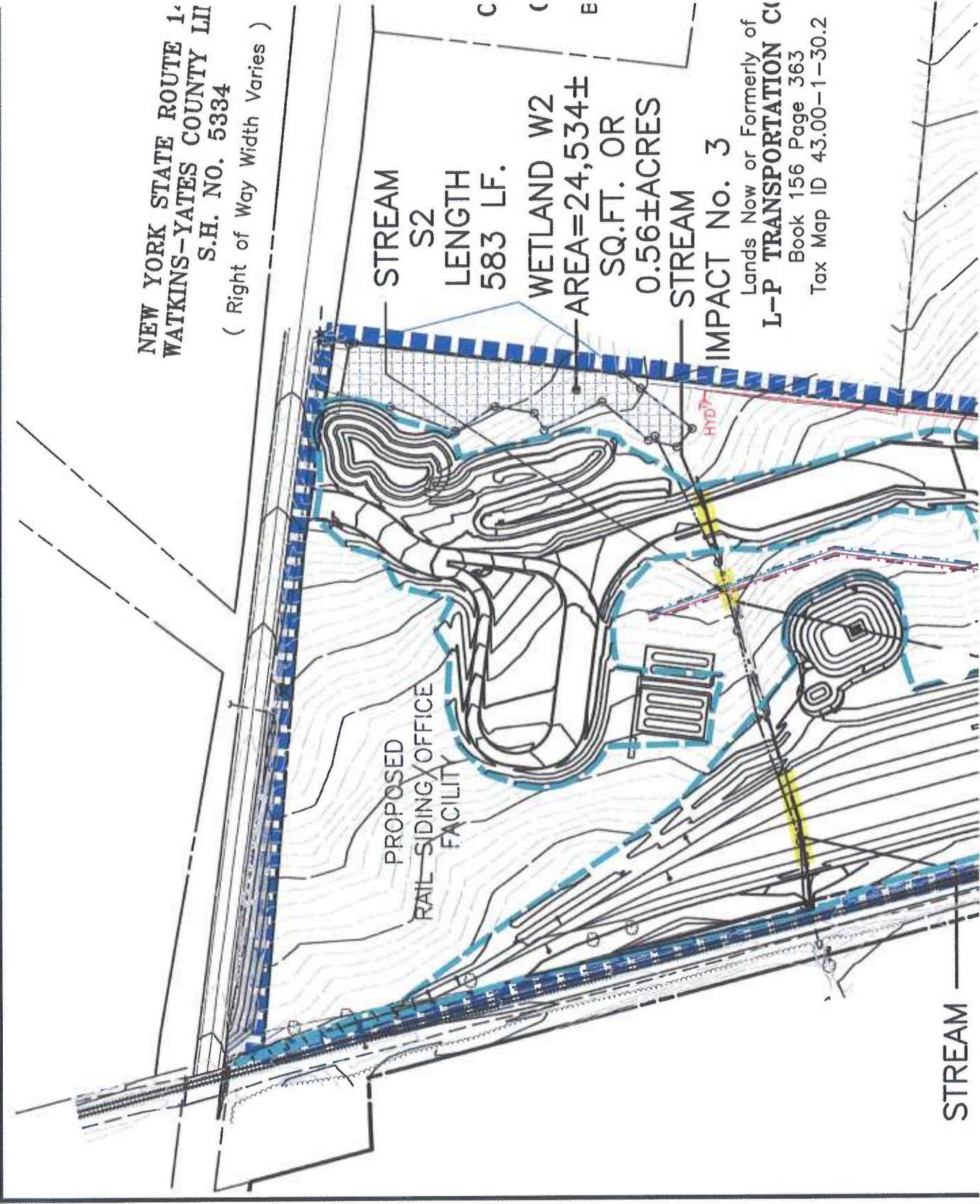
- Stream
- Wetland
- Impact Area
- Other

Table 10: Project Information

Field	Value
Project Name	Wetland and Stream Impact Assessment
Client	ABC Company
Location	123 Main Street, City, State
Date	10/20/2023
Scale	1" = 100'
Author	John Doe
Reviewer	Jane Smith
Appr. Date	10/20/2023
Appr. Name	John Doe
Appr. Title	Project Manager</

XREFS: PROPOSED PIPE ROUTES.DWG

NEW YORK STATE ROUTE 1,
WATKINS-YATES COUNTY LII
S.H. NO. 5334
(Right of Way Width Varies)



STREAM

S2

LENGTH
583 LF.

WETLAND W2

AREA=24,534±

SQ.FT. OR

0.56±ACRES

STREAM

IMPACT No. 3

Lands Now or Formerly of
L-P TRANSPORTATION C
Book 156 Page 363
Tax Map ID 43.00-1-30.2

STREAM

NEW
WATKINS-1A
S.H. NO.

4A
NE

Lands Now or
Formerly of
**ASELLA WASTE
MANAGEMENT
OF NEW YORK,
INC.**

Book 311 Page 11
Tax Map ID
43.00-1-30.1

Lands Now or
Formerly of
**RICK J.
HUGHEY AND
BARBARA W.
HUGHEY**

Book 280 Page 225
Tax Map ID
43.00-1-31.2

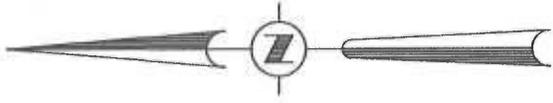
J.

2

Lands Now or Formerly of
**FINGER LAKES LGP
STORAGE, LLC**
Book 362 Page 734
Tax Map ID
43.00-1-35.113

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-13

NEW YORK STATE ROUTE 14
WATES COUNTY LINE
5334



Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 53.00-1-12





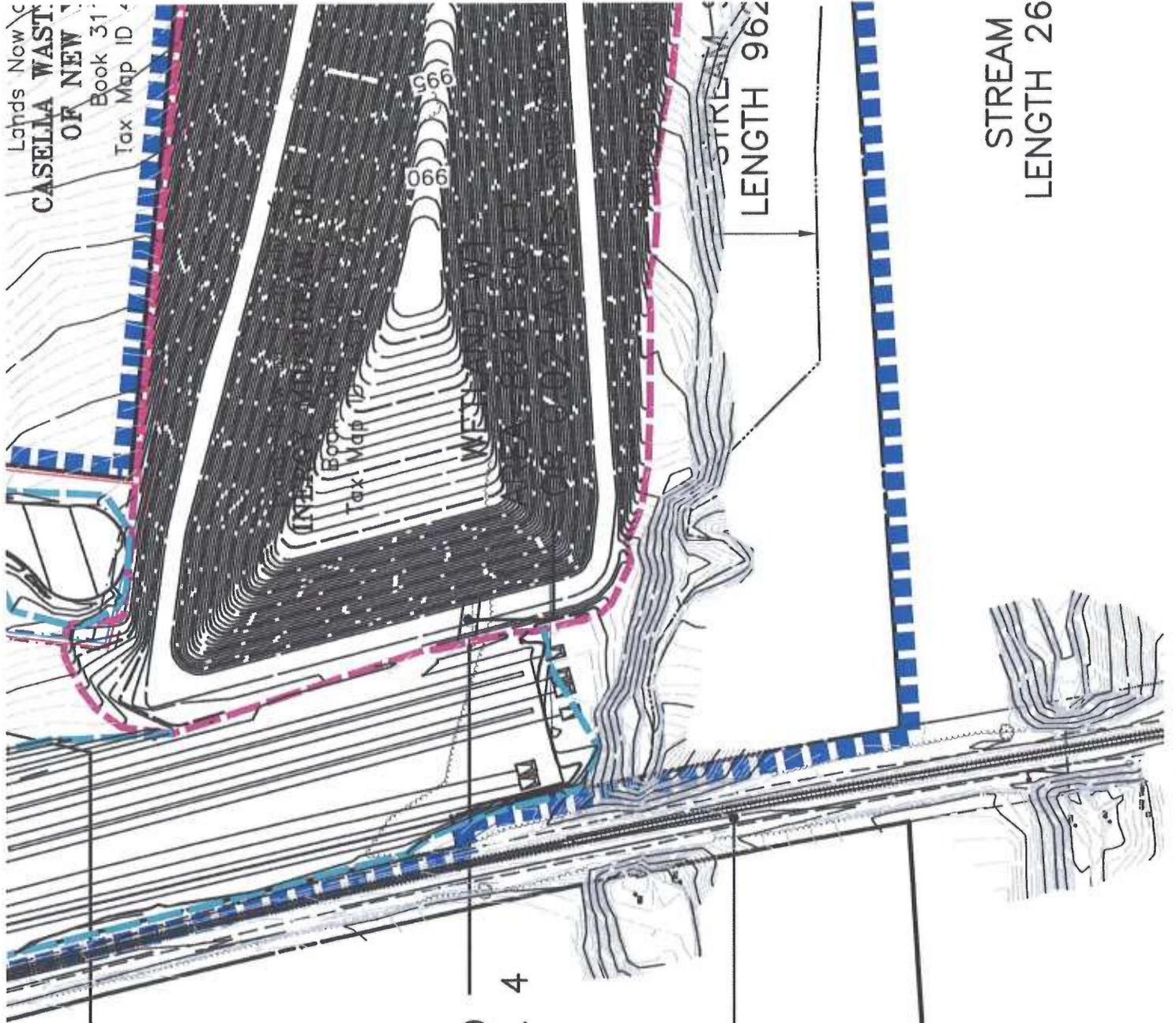
IMPACT No. 1

STREAM
IMPACT No. 2

Lands Now or
Formerly of
**DELOYD
WILLIAMS**
Tax Map ID
43.00-1-29.2

WETLAND
IMPACT No. 4

Lands Now or
Formerly of
**PENNSYLVANIA
LINES LLC
C/O NORFOLK
SOUTHERN
RAILWAY
COMPANY**
Book 323 Page 169
Tax Map ID
43.00-1-43



Lands Now or
Formerly of
CASELLA WASTON
Book 31
Tax Map ID

Book
Tax Map ID
066

STREAM
LENGTH 962

STREAM
LENGTH 26

Formerly of
E. MANAGEMENT
YORK, INC.

Page 11
43.00-1-29.11

WETLAND W3
AREA=3,345±SQ.FT.
0.08±ACRES

WETLAND
IMPACT No. 5

Lands Now or Formerly of
STEPHEN S. WILLIAMS
RONALD B. WILLIAMS AND
BARBARA G. WILLIAMS
Book 254 Page 253
Tax Map ID 43.00-1-31.1

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
(PARCEL E)
Tax Map ID 43.00-1-19

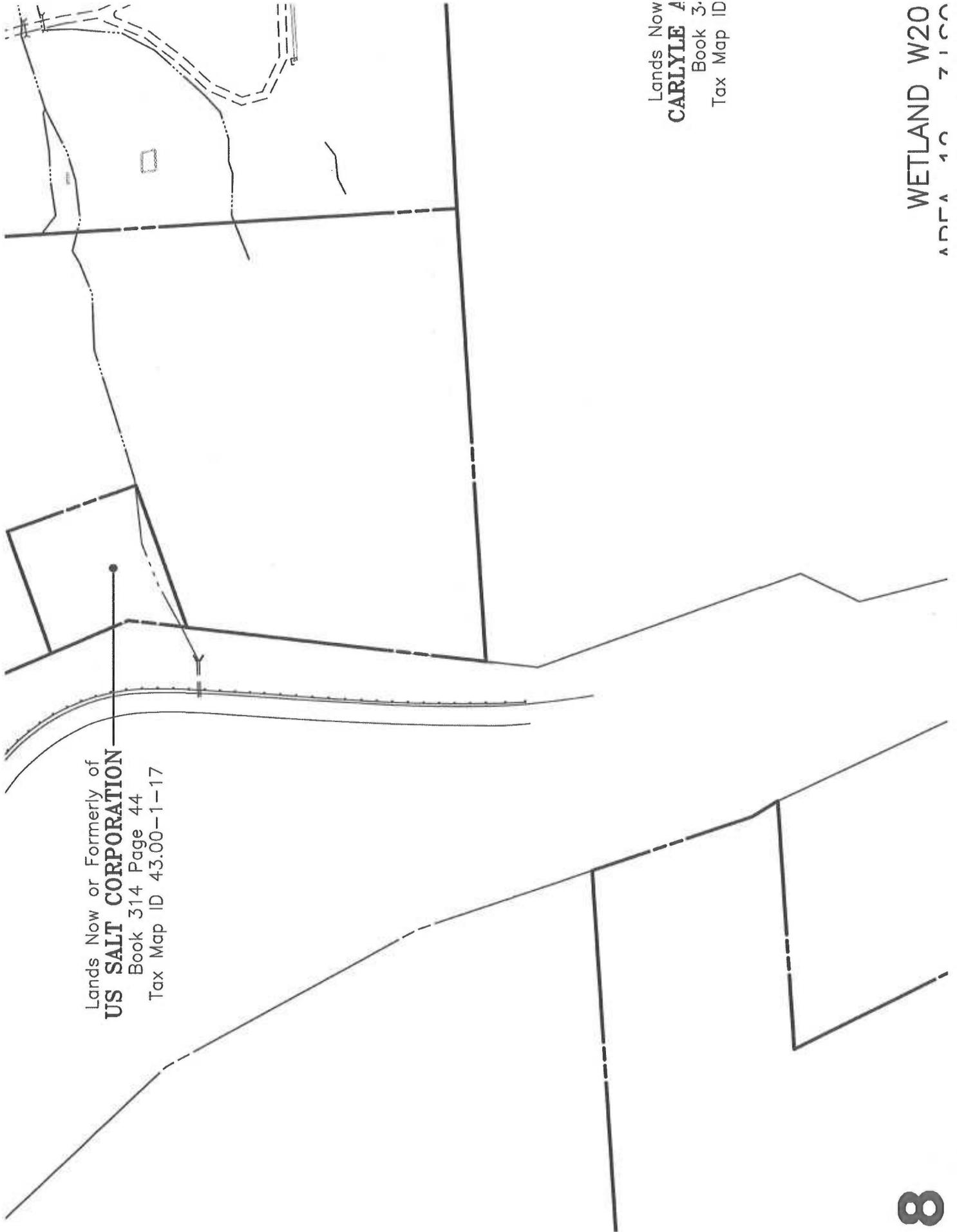
STREAM
IMPACT No. 6

CREEK (ICE)

S1
8 LF.

7

Lands Now or Formerly of
US SALT CORPORATION
Book 314 Page 44
Tax Map ID 43.00-1-17



Lands Now
CARLYLE A
Book 3.
Tax Map ID

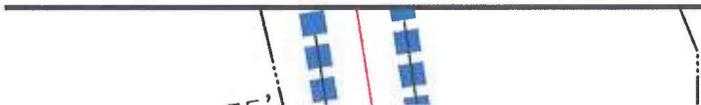
WETLAND W20
AREA 10 7100

75

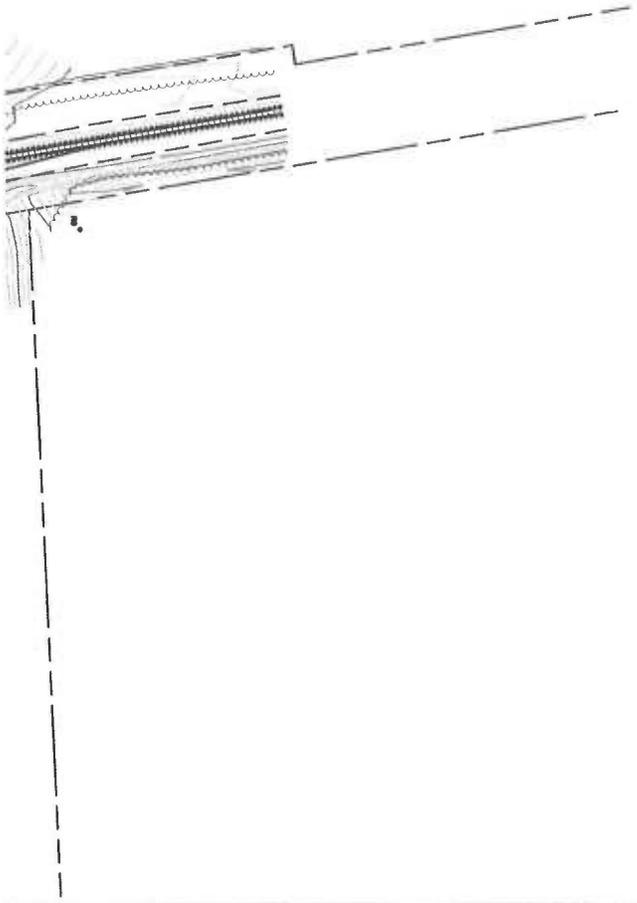


or Formerly of
AND TONY, LLC
 46 Page 657
 43.00-1-14.12

MATCH LINE "A"

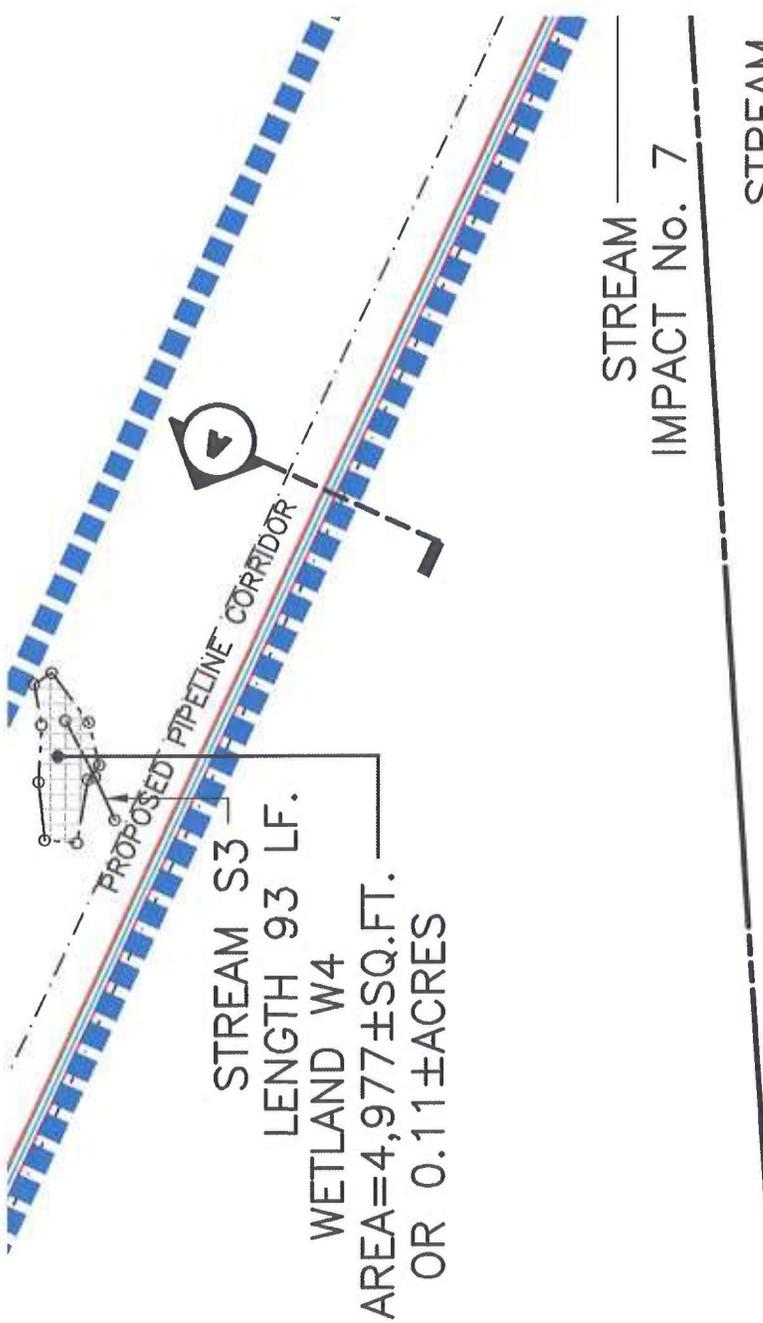


Lands Now or Formerly of
**THOMAS C. VIGLIONE AND
BEVERLY J. VIGLIONE**
Book 148 Page 413
Tax Map ID 43.00-1-24



Map Notes

1. Wetland and stream locations shown hereon were provided by AK Environmental, LLC and certified by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architect
2. North orientation is Grid North based on the New York State Plane Coordinate System, C Zone, NAD83.
3. Vertical datum shown hereon is NAVD 88 and was obtained through GPS observations. (N tie to a benchmark.)



are not
ature, P.C.

entral

lo direct

AREA= 14,400±ACRES
OR 0.29±ACRES

Lands Now or Formerly of
**ANTHONY J. VENTRA AND
SHERRY ANN VENTRA**
Book 241 Page 118
Tax Map ID 43.00-1-21

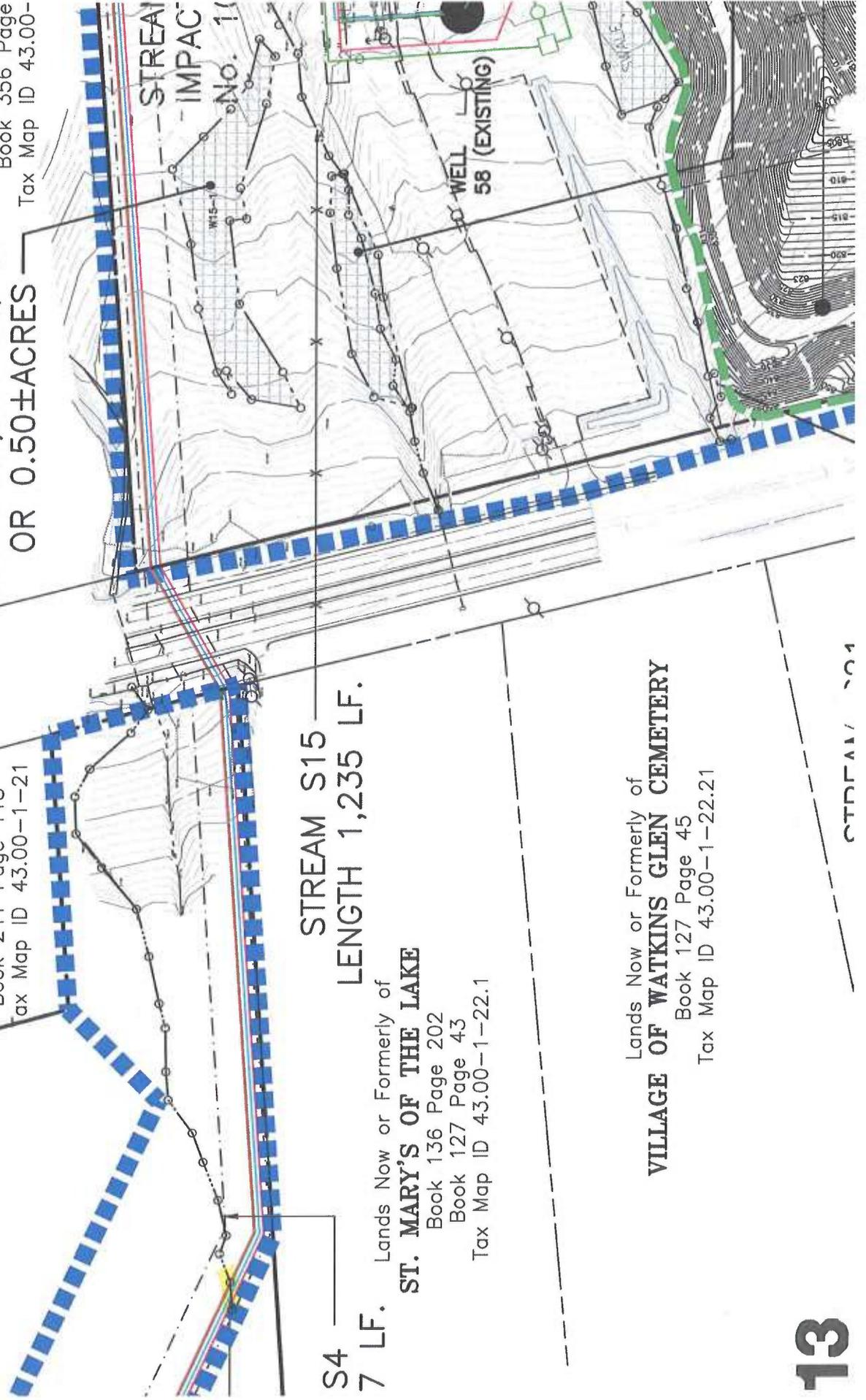
Lands Now or Formerly of
**MICHAEL U. HERMANN
MICHELE MAGDA**
Book 356 Page 356
Tax Map ID 43.00-1-21

STREAM S15
LENGTH 1,235 LF.

Lands Now or Formerly of
ST. MARY'S OF THE LAKE
Book 136 Page 202
Book 127 Page 43
Tax Map ID 43.00-1-22.1

Lands Now or Formerly of
VILLAGE OF WATKINS GLEN CEMETERY
Book 127 Page 45
Tax Map ID 43.00-1-22.21

S4
7 LF.



100 FT.

IMPACT No. 12

STREAM No. 11

Formerly of OLD AND SMITH 363 -1-14.11

LENGTH 200 LF.

WETLAND W21 AREA=14,793±SQ.FT. OR 0.34±ACRE

WETLAND W22 AREA=7,398±SQ.FT. OR 0.17±ACRES

STREAM S21 LENGTH 651 LF. (TOTAL LENGTH 1,074 LF.)

WETLAND W5 AREA=9,947±SQ.FT. OR 0.23±ACRES

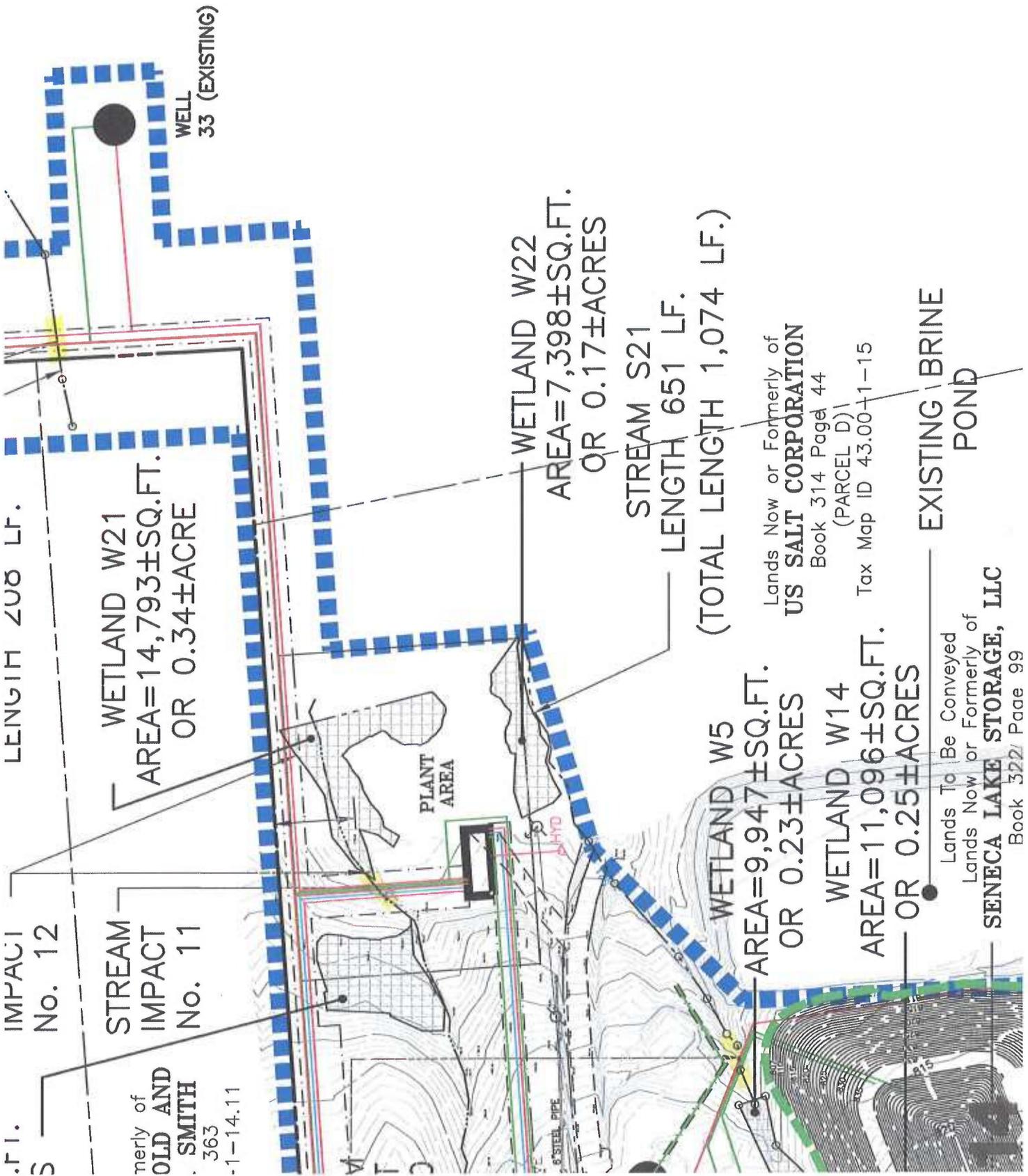
WETLAND W14 AREA=11,096±SQ.FT. OR 0.25±ACRES

Lands Now or Formerly of US SALT CORPORATION Book 314 Page 44 (PARCEL D)1

Tax Map ID 43.00+1-15

EXISTING BRINE POND

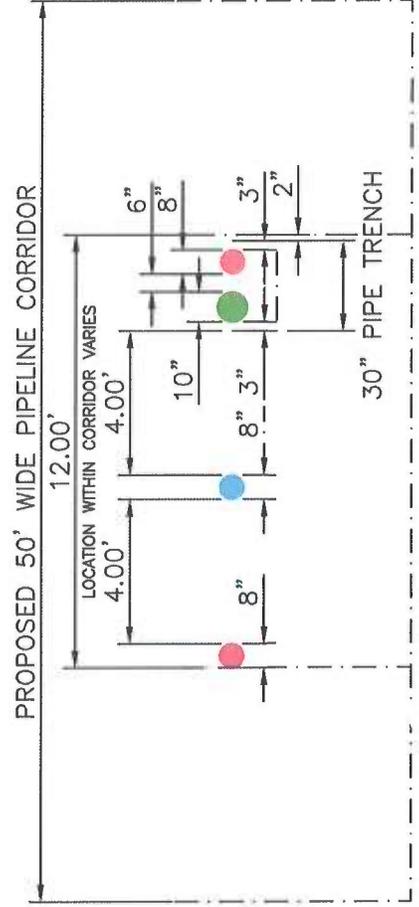
Lands To Be Conveyed Lands Now or Formerly of SENECA LAKE STORAGE, LLC Book 322/ Page 99



Wetland Impact Chart

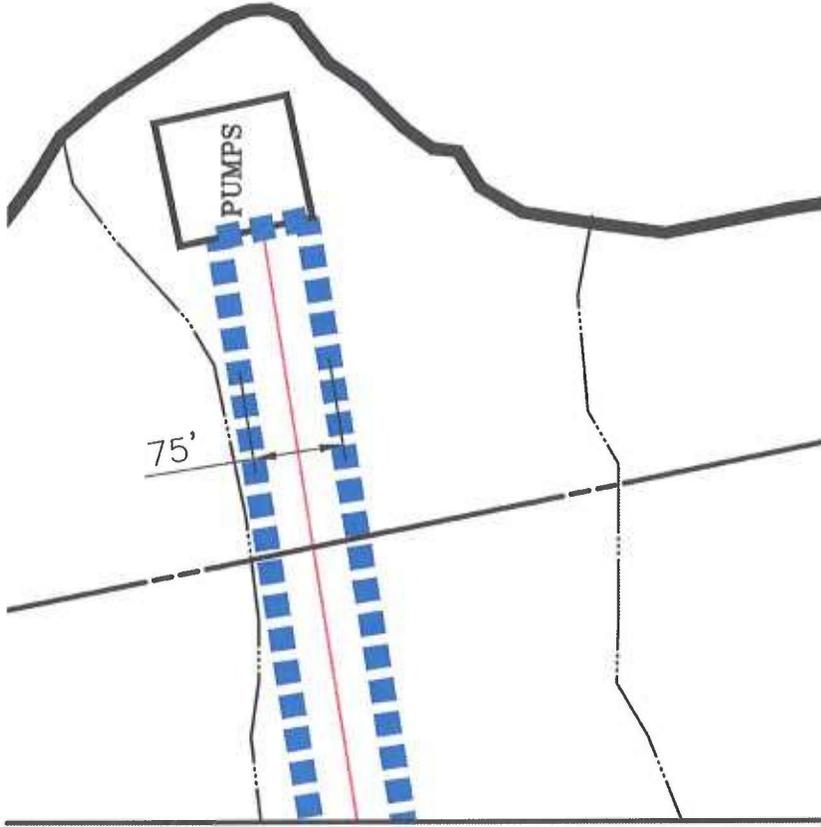
Impact No.	Area Affected	Wetland Impact Type		Stream Impact Type	Remarks	
		Permanent	Temporary			
1	Stream S2			211 LF.	Culvert under R.R. siding	
2	Stream S2			25 LF.	Proposed pipeline across stream	
3	Stream S2			89 LF.	Culvert under roadway	
4	Wetland W1	0.02 Acre			Area within West Brine Pond	
5	Wetland W3	0.08 Acre			Area within West Brine Pond	
6	Stream S1				Proposed aerial pipeline crossing over stream	
7	Stream S4			50 LF.	Proposed pipelines across stream	
8	Stream S6			25 LF.	Single pipeline crossing stream	
9	Stream S5				Proposed aerial pipeline crossing over stream	
10	Stream S21				Proposed aerial pipeline crossing over stream	
11	Stream S15			66 LF.	Proposed pipeline across stream	
12	Wetland 21		0.01		Proposed pipelines across wetland	
13	Stream S7			25 LF.	Proposed pipelines across stream	
14	Stream S8				Proposed aerial pipeline crossing over stream	
Total		0.10 Acre	0.01 Acre	300 LF.	191 LF.	Total Wetlands/Streams impacted

DETAIL "A"
NOT TO SCALE





MATCH LINE "A"



LINE TYPE LEGEND

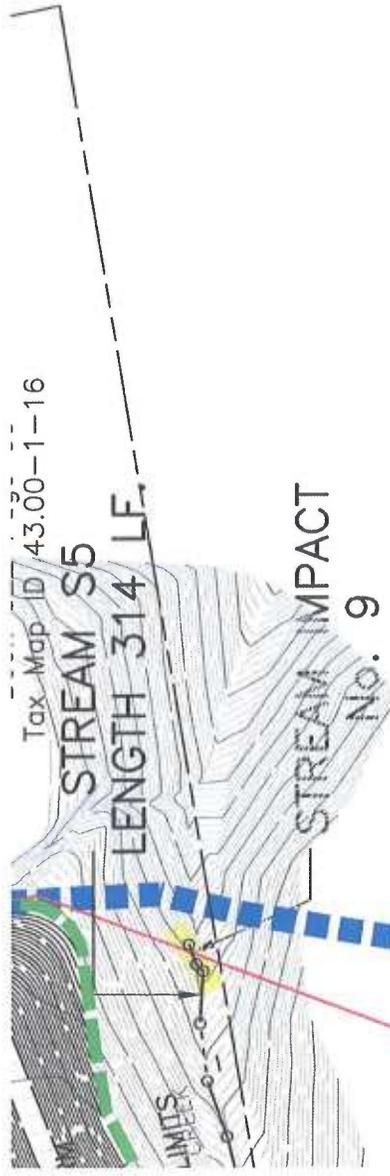
	STUDY CORRIDOR LIMIT LINE
	PROPOSED BRINE POND EAST
	PROPOSED BRINE POND WEST
	PROPOSED BRINE LINE
	PROPOSED BUTANE LINE
	PROPOSED FIRE PROTECTION WATERLINE
	PROPOSED PROPANE LINE
	PROPOSED PIPELINE CORRIDOR

DRAINAGE 341
 LENGTH 423 LF.
 (TOTAL LENGTH 1,074 LF.)

WETLAND W23
 AREA=12,802±SQ.FT.
 OR 0.29±ACRES



DATE	REVISIONS RECORD/DESCRIPTION
	1
	2
	3
	4
	5

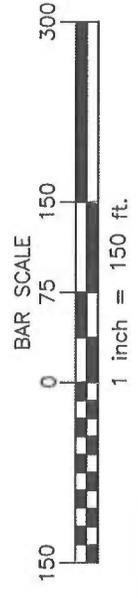


STREAM S6
LENGTH 263 LF.
 Lands Now or Formerly of
US SALT CORPORATION
 Book 314 Page 44
 (PARCEL A7 & 8)
 Tax Map ID 43.00-1-12



STREAM IMPACT
No. 8

EXISTING GAS LINE



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CAD DWG. FILE N°

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".



		6	
		7	
		8	
		9	

CHECKED : JFC
PROJ. NO: 08.8696
SCALE : 1" = 150'
DATE : MAR. 26, 2012

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299



SHEET
DWG. N

1 OF 1

0: 12-115