COUNTY OF SUFFOLK

STEVEN BELLONE
COUNTY EXECUTIVE
DEPARTMENT OF ECONOMIC DEVELOPMENT AND PLANNING
DIVISION OF PLANNING AND ENVIRONMENT

COUNCIL ON ENVIRONMENTAL QUALITY

LAWRENCE SWANSON
CHAIRPERSON
CEQ

MEMORANDUM

TO: Interested/Involved Parties

JC

FROM: John Corral, Senior Planner

DATE: April 10, 2018

RE: Proposed Construction of a Paved Walking Path and Other Improvements at Old Field Farm County Park, Town of Brookhaven

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Suffolk County has begun the environmental review process for the proposed paved walking path at Old Field Farm County Park. In accordance with Title 6 NYCRR Part 617.6(a) and (b) the County of Suffolk has preliminarily reviewed this project and determined that it constitutes a Type I Action.

As an Involved/Interested Agency, you are hereby notified that Suffolk County intends to assume Lead Agency status and comply with all necessary SEQRA requirements. Any objections to the County's position should be received within thirty days of the date of this mailing.

Enclosed is an Environmental Assessment Form for the above referenced County project which has been submitted to the Council on Environmental Quality (CEQ) for review. Pursuant to Title 6 NYCRR Part 617 and Chapter 450 of the Suffolk County Code, the CEQ must recommend a SEQRA classification for the action and determine whether it may have a significant adverse impact on the environment which would require the preparation of a Draft Environmental Impact Statement (DEIS).

The Council would like to know any comments you may have regarding this proposal and whether you think a DEIS or a determination of non-significance is warranted. This project will be discussed at the April 18, 2018 CEQ meeting. If you are unable to attend the meeting to present your views, please forward any recommendations or criticisms you may have to this office prior to the date of the meeting.

JC/cd
Enc.

cc: John Sohngen, Principal Public Health Engineer, Suffolk County Department of Health Services
Andrew P. Freleng, Chief Planner, Suffolk County Dept. of Economic Development and Planning
Carrie Meek-Gallagher, Regional Director, New York State Department of Environmental Conservation, Region 1
Edward Romaine, Supervisor, Town of Brookhaven
Tullio Bertoli, Commissioner, Town of Brookhaven Department of Planning and Environmental

SUFFOLK COUNTY
FULL ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 1 – Environment and Setting

Instructions: Part 1 is to be completed by the applicant or project sponsor. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information. If a question is not applicable to the proposed project indicate with "N/A".

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information

Name of Action/Project: The construction of a paved walking path and other improvements at Old Field Horse Farm County Park
Project Location (specify Town, Village, Hamlet and attach general location map*): Old Field Horse Farm County Park
Street Address: 92 West Meadow Road, Setauket, NY 11733
Name of Property or Waterway: Old Field Horse Farm County Park

* Maps of Property and Project: Attach relevant available maps including a location map (note: use road map, Hagstrom Atlas, USGS topography map, tax map or equivalent) and preliminary site plans showing orientation, scale, buildings, roads, landmarks, drainage systems, area to be altered by project, etc.

Type of Project: New ☒ Expansion ☐

Capital Program: Item # 525-CAP-7176.315 Date Adopted: Amount: $60,000

Brief Description of Proposed Action (include purpose or need/attach relevant design reports, plans, etc.): This plan is for the construction of a walking path following CEQ as a reviewing body and NYSDEC guidance and regulations. There are two proposed trails options. Option 1 is the preferred trail option but the exact location of the trail in relation to the shoreline is subject to change based on field conditions and NYSDEC guidance. Trail Option 2 shows a possible alternative trail location. There will be two handicap accessible pedestrian gates (one at each end of the trail), some fencing and a small parking area at Old Field Farm County Park, formerly known as the North Shore Horse Show Grounds. The parking area would be a small area for 6 to 8 cars following DEC guidelines for distinace from the wetlands and necessary replantings in the area. The parking area will include small spilt rail fencing to designate the parking area. The parking area will be accessible from a gate on the WEst side of the property. The parking area will be to the West of the entrance. The park currently houses numerous horse stables, a barn and viewing Grand Stand. The addition of a walking path, which would only be open from dawn until dusk, would allow further public access to the 14 acres of County parkland. The estimated maximum width of the trail is around 13.5 feet but may vary in certain areas as the property allows.

Project Status:

	Start	Completion
Proposal		
Study		
Preliminary Planning	2016	Spring 2018
Final Plans: Specs		
Site Acquisition		
Construction		
Other		

Departments Involved:

	Dept. Performing Design & Construction	Initiating Dept. (if different)
Name:	Suffolk County Parks Department	Legislator Kara Hahn
Street/PO:	P.O. Box 144	306 Main Street
City, State:	West Sayville, NY	Port Jefferson, NY
Zip:	11796	11777
Contact Person:	Terry Macrone	Kara Hahn
Business Phone:	(631) 854-4949	631-854-1650
Email:		

B. Government Approvals, Funding or Sponsorship
("Funding" includes grants, loans, tax relief and any other forms of financial assistance)

Government Entity			If "Yes": Identify Agency and Approval(s) Required	Application Date (Actual or Projected)
i. City Council, Town Board or Village Board of Trustees	Yes ☐	No ☒		
ii. City, Town or Village Planning Board or Commission	Yes ☐	No ☒		
iii. City, Town or Village Zoning Board of Appeals	Yes ☐	No ☒		

iv.	Other local agencies	Yes ☐	No ☒		
v.	County agencies	Yes ☒	No ☐	Suffolk County Legislature	Projected Date - 3/6/2018
vi.	Regional agencies	Yes ☐	No ☒		
vii.	State agencies	Yes ☒	No ☐	NYSDEC	TBD
viii.	Federal agencies	Yes ☐	No ☒		

ix. Coastal Resources
Is the project site within a Coastal Area or the waterfront area of a Designated Inland Waterway? Yes ☒ No ☐

If YES,

Is the project site located in a community with an approved Local Waterfront Revitalization Program?	Yes ☐ No ☒
Is the project site within a Coastal Erosion Hazard Area?	Yes ☐ No ☒

C. Planning and Zoning

C.1. Planning and Zoning Actions

Will administrative or legislative adoption or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes ☐ No ☒

C.2. Adopted Land Use Plans

a. Do any municipally-adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes ☒ No ☐

If Yes:

Does the comprehensive plan include specific recommendations for the site where the proposed action would be located?
Yes ☒ No ☐

b. Is the site of the proposed action within any local or regional special planning district (i.e. Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; et. al)? Yes ☐ No ☒

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes ☐ No ☒

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance? Yes ☒ No ☐

If Yes, what is the zoning classification(s) including any applicable overlay district? Residence A-1 Zoning District	
b. Is the use permitted or allowed by a special or conditional use permit?	Yes ☒ No ☐
c. Is a zoning change requested as part of the proposed action? **If Yes**, what is the proposed new zoning for the site?	Yes ☐ No ☒

C.4. Existing Community Services
a. In what school district is the project site located? Three Village Central School District
b. What police or other public protection forces serve the project site? Old Field Farm, 6th Precinct, Suffolk County Park Rangers
c. Which fire protection and emergency medical services serve the project site? Setauket FD
d. What parks serve the project site? Old Field Farm County Park (Subject Property) and Town of Brookhaven's West Meadow Beach

D. Project Details

D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action? (if mixed, include all components) Residential ☐; Industrial ☐; Commercial ☐; Recreational ☒; Other ☐:	
b. Total acreage of the site of the proposed action:	13.3 acres
c. Total acreage to be physically disturbed:	Aprox. 0.5 acres
d. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor:	13.3 Acres acres
e. Is the proposed action an expansion of an existing project or use? **If Yes,** what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet, etc.)? Expansion involves an improvement consisting of an aprox. 0.5 acre paved trail in an existing County Park	Yes ☒ No ☐
f. Is the proposed action a subdivision, or does it include a subdivision? **If Yes:** *i.* Purpose or type of subdivision? (if mixed, specify types) Residential ☐; Industrial ☐; Commercial ☐; Recreational ☐; Other ☐ *ii.*	Yes ☐ No ☒

Is a cluster/conservation layout proposed?	Yes ☐ No ☐
Number of lots proposed:	
Minimum and maximum proposed lot sizes:	

g. Will proposed action be constructed in multiple phases?

If No, What is the anticipated period of construction?

To be determined but the construction project not anticipated to be longer than a one year duration.

If Yes:

Total number of phases anticipated:
Anticipated commencement date of phase I (including demolition):
Anticipated completion date of final phase:
Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Yes ☐ No ☒

h. Does the project include new residential uses?

If Yes, show number of units proposed.

	Single Family	Two Family	Three Family	Multi-Family (4+)
Initial Phase				
At Completion				

Yes ☐ No ☒

i. Does the proposed action include new non-residential construction (including expansions)?

If Yes:

Total Number of Structures:
Dimensions of largest proposed structure:
Approximate extent of building space to be heated or cooled:

Yes ☐ No ☒

j. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage?

Yes ☐ No ☒

If Yes:

Purpose of the impoundment:
If a water impoundment, the principal source of the water: Ground Water ☐; Surface Water Streams ☐; Other ☐ (specify):
If other than water, identify the type of impounded/contained liquids and their source:
Approximate size of the proposed impoundment (include units): Volume: Surface area:
Dimensions of the proposed dam or impounding structure:
Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining or dredging, during construction, operations or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

Yes ☐ No ☒

If Yes:

What is the purpose of the excavation or dredging?
How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? Volume: Over what duration of time:
Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them:

D.2.a (cont.) – only answer following if checked "Yes" above

Will there be onsite dewatering or processing of excavated materials? **If Yes**, describe:
What is the total area to be dredged or excavated?
What is the maximum area to be worked at any one time?
What would be the maximum depth of excavation or dredging?
Will the excavation require blasting?
Summarize site reclamation goals and plans:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, water body, shoreline, beach or adjacent area?

Yes ☐ No ☒

If Yes:

Identify the wetland or water body which would be affected (by name, water index number, wetland map number or geographic description):
Describe how the proposed action would affect that water body or wetland, e.g. excavation, fill, placement of structures or creation of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
Will proposed action cause or result in disturbance to bottom sediments? **If Yes**, describe:
Will proposed action cause or result in the destruction or removal of aquatic vegetation? **If Yes:**

Area of vegetation proposed to be removed:
Expected acreage of aquatic vegetation remaining after project completion:
Purpose of proposed removal (e.g., beach clearing, invasive control, boat access):
Proposed method of plant removal:
If chemical/herbicide treatment will be used, specify product(s):

Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use or create a new demand for water?

Yes ☐ No ☒

If Yes:

Total anticipated water usage/demand per day:
Will the proposed action obtain water from an existing public water supply?

If Yes:

Name of district/service area:
Does the existing public water supply have capacity to serve the proposal? Yes ☐ No ☐
Is the project site in the existing district? Yes ☐ No ☐
Is expansion of the district needed? Yes ☐ No ☐
Do existing lines serve the project site? Yes ☐ No ☐

Will line extension within an existing district be necessary to supply the project?

If Yes:

Describe extensions or capacity expansions proposed to serve this project:
Source(s) of supply for the district:

Is a new water supply district or service area proposed to be formed to serve the project site?

If Yes:

Applicant/sponsor for new district:
Date application submitted or anticipated:
Proposed source(s) of supply for new district:

If a public water supply will not be used, describe plans to provide water supply for the project:
If water supply will be from wells (public or private), what will be the maximum pumping capacity?

d. Will the proposed action generate liquid wastes?

Yes ☐ No ☒

If Yes:

Total anticipated liquid waste generation per day:

Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):

If sanitary wastewater identify proposed disinfection technology and treatment goals for the following:

Disinfection technology:
Nitrogen:
Phosphorus:
Total Suspended Soilds (TSS):
Biological Oxygen Demand (BOD):

Will the proposed action use any existing public wastewater treatment facilities?

If Yes:

Name of wastewater treatment plant to be used:

Name of district:

Does the existing wastewater treatment plant have capacity to serve the project?
Yes ☐ No ☐

Is the project site in the existing district?
Yes ☐ No ☐

Is expansion of the district needed?
Yes ☐ No ☐

Do existing sewer lines serve the project site?
Yes ☐ No ☐

Will line extension within an existing district be necessary to serve the project?

If Yes:

Describe extensions or capacity expansions proposed to serve this project:

Will a new wastewater (sewage) treatment district be formed to serve the project site?

If Yes:

Applicant/Sponsor for new district:

Date application submitted or anticipated:

What is the receiving water for the wastewater discharge?

If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

Describe any plans or designs to capture, recycle or reuse liquid waste:

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction?

Yes ☐ No ☒

If Yes:

How much impervious surface will the project create in relation to total size of project parcel?
Area of Impervious Surface:
Area of Parcel:

Describe types of new point sources:

Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

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

Will stormwater runoff flow to adjacent properties?
Yes ☐ No ☐

Does proposed plan minimize impervious surfaces use pervious materials or collect and re-use stormwater?
Yes ☐ No ☐

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations?

Yes ☐ No ☒

If Yes, identify:

Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles):

Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers):

Stationary sources during operations (e.g., process emissions, large boilers, electric generation):

g. Will any air emission sources named in D.2.f (above) require a NY State Air Registration, Air Facility Permit or Federal Clean Air Act Title IV or Title V Permit?

Yes ☐ No ☒

If Yes:

Is the project site located in an Air Quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)
Yes ☐ No ☐

In addition to emissions as calculated in the application, the project will generate:

- Tons/year (metric) of Carbon Dioxide (CO_2)
- Tons/year (metric) of Nitrous Oxide (N_2O)
- Tons/year (metric) of Perfluorocarbons (PFCs)
- Tons/year (metric) of Sulfur Hexafluoride (SF_6)
- Tons/year (metric) of Carbon Dioxide equivalent of Hydroflorocarbons (HFCS)
- Tons/year (metric) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)?

Yes ☐ No ☒

If Yes:

Estimate methane generation in tons/year (metric):
Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring):

i. Will the proposed action result in the release of air pollutants from open-air operations or processes such as quarry or landfill operations?

Yes ☐ No ☒

If Yes, describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services?

Yes ☐ No ☒

If Yes:

When is the peak traffic expected? (check all that apply) Morning ☐; Evening ☐; Weekend ☐; Randomly ☐ between the hours of to
For commercial activities only, projected number of semi-trailer truck trips/day:
Parking spaces: Existing: Proposed: Net Increase/Decrease:
Does the proposed action include any shared use parking? Yes ☐ No ☐
If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:
Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? Yes ☐ No ☐
Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes ☐ No ☐
Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes ☐ No ☐

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy?

Yes ☐ No ☒

If Yes:

Estimate annual electricity demand during operation of the proposed action:
Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility or other):
Will the proposed action require a new, or an upgrade to, an existing substation? Yes ☐ No ☐

l. Hours of operation (Answer all items which apply)

During Construction	During Operations
Monday-Friday: 7:30 am - 5:00 pm (anticipated)	Monday-Friday: Trail will be open from dawn to dusk year round
Saturday: 8 am - 5 pm (anticipated)	Saturday: Trail will be open from dawn to dusk year round
Sunday: None	Sunday: Trail will be open from dawn to dusk year round
Holidays: None	Holidays: Trail will be open from dawn to dusk year round

N/A ☐

m. Does the proposed action produce noise that will exceed existing ambient noise levels during construction, operation or both?

Yes ☒ No ☐

If Yes:

Provide details including sources, time of day and duration: Possible temporary noise exceedences of ambient noise levels during construction.

Will proposed action remove existing natural barriers that could act as a noise barrier or screen?
Yes ☐ No ☒ Describe:

n. Will the proposed action have outdoor lighting?

Yes ☐ No ☒

If Yes:

Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Will proposed action remove existing natural barriers that could act as a light barrier or screen?
Yes ☐ No ☐ Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day?

Yes ☐ No ☒

If Yes:

Describe possible sources, potential frequency and duration of odor emissions and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (over 1,100 gallons) or chemical products (over 550 gallons)?

Yes ☐ No ☒

If Yes:

Product(s) to be stored:

Volume(s): per unit time: (e.g., month, year)

Generally describe proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? **If Yes:** Describe proposed treatment(s): Will the proposed action use Integrated Pest Management Practices? Yes ☐ No ☐	Yes ☐ No ☒
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? **If Yes:** Describe any solid waste(s) to be generated during construction or operation of the facility: Construction: tons per (unit of time) Operation: tons per (unit of time) Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: Construction: Operation: Proposed disposal methods/facilities for solid waste generated on-site: Construction: Operation:	Yes ☐ No ☒
s. Does the proposed action include construction or modification of a solid waste management facility? **If Yes:** Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill or other disposal activities): Anticipated rate of disposal/processing: tons/month, if transfer or other non-combustion/thermal treatment, or tons/hour, if combustion or thermal treatment If landfill, anticipated site life: years	Yes ☐ No ☒

t. Will proposed action at the site involve the commercial generation, treatment, storage or disposal of hazardous waste? **If Yes:** Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: Generally describe processes or activities involving hazardous wastes or constituents: Specify amount to be handled or generated: tons/month Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes ☐ No ☐ **If Yes:** Provide name and location of facility: **If No:** Describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:	Yes ☐ No ☒
u. Will proposed action adhere to Leadership in Energy and Environmental Design (LEED) or any other green building principals? **If Yes:** Describe proposed green building methods and attempted level of certification, if any:	Yes ☐ No ☒
v. Does the project sponsor propose the use of energy benchmarking to monitor and adjust project energy needs? **If Yes, explain:**	Yes ☐ No ☒
w. Will the proposed action use native plants for all landscaping needs? **Identify species to be used and method of irrigation:**	Yes ☐ No ☒
x. Does the proposed action promote local tourism? **If Yes, explain:** This project will allow residents further use of the park and enable them to have more access to walking trails in the area	Yes ☒ No ☐

E. Site and Setting of Proposed Action

E.1. Land Uses on and Surrounding the Project Site

a. Existing land uses (Check all uses the occur on, adjoining and near the project site): (include map)

Urban ☐ Industrial ☐ Commercial ☐ Residential ☐ Rural ☐
Forest ☐ Agriculture ☒ Aquatic ☐ Other ☒ Specify: Recreational

If mix of uses, generally describe:

b. Land uses and cover types on the project site:

Land Use or Cover Type	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
Roads, buildings and other paved or impervious surfaces	Aprox 1 Acre	Aprox 1.50	Aprox +0.5
Forested	N/A		
Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	N/A		
Agricultural (includes active orchards, fields, greenhouse, etc.)	Aprox 12	Aprox 11.5	Aprox -0.5
Surface water features (lakes, ponds, streams, rivers, etc.)	N/A		
Wetlands (freshwater or tidal)	Aprox 0.5 Acres	Aprox 0.5 Acres	0
Non-Vegetated (bare rock, earth or fill)	N/A		
Other Describe:			
TOTAL:	13.5 Acres	13.5 Acres	13.5 Acres

c. Is the project site presently used by members of the community for public recreation?

Yes ☒ No ☐

If Yes, explain:

Horse shows and a limited number of community programs are currently run at the site. By adding this path it will enable the community use of the site year-round.

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers or group homes) within 1,500 feet of the project site?

Yes ☐ No ☒

If Yes, identify facilities:

e. Does the project site contain an existing dam?

Yes ☐ No ☒

If Yes:

Dimensions of the dam and impoundment:
- Dam height: feet
- Dam length: feet
- Surface area: acres
- Volume impounded: gallons or acre-feet

Dam's existing hazard classification:

Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? **If Yes:** Has the facility been formally closed? Yes ☐ No ☐ If Yes, cite sources/documentation: Describe the location of the project site relative to the boundaries of the solid waste management facility: Describe any development constraints due to the prior solid waste activities:	Yes ☐ No ☒
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? **If Yes:** Describe waste(s) handled and waste management activities, including approximate time when activities occurred:	Yes ☐ No ☒
h. Has there been a reported contamination spill at the proposed project site or have any remedial actions been conducted at or adjacent to the proposed site? **If Yes:** Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? (Check all that apply) ☐ Yes – Spills Incidents database Provide DEC ID number(s): ☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database If site has been subject to RCRA corrective activities, describe control measures: Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes ☐ No ☐ **If Yes:** DEC ID number(s): Describe current status of site(s):	Yes ☐ No ☒
E.1.h. (cont.) – only answer following if checked "Yes" above	

Is the project site subject to an institutional control limiting property uses?

If Yes:

DEC site ID number(s):
Describe the type of institutional control (e.g., deed restriction or easement):
Describe any use limitations:
Describe any engineering controls:
Will the project affect the institutional or engineering controls in place? Yes ☐ No ☐ Explain:

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site:
Aprox 800 feet

b. Are there bedrock outcroppings on the project site? Yes ☐ No ☒

If Yes:

What proportion of the site is comprised of bedrock outcroppings?
%

c. Predominant soil type(s) present on project site: (include map)

1. CuB (Cut and Fill Land)	100% of site
2.	% of site
3.	% of site
4.	% of site

d. What is the average depth to the water table on the project site?
3-8 feet

e. Drainage status of project site soils:

1. ☐ Well Drained	% of site
2. ☒ Moderately Well Drained	100% of site
3. ☐ Poorly Drained	% of site

f. Approximate proportion of proposed action site with slopes: (include topographic map)

1. ☒ 0-10%	100% of site
2. ☐ 11-15%	% of site
3. ☐ 16% or greater	% of site

g. Are there any unique geologic features on the project site? Yes ☐ No ☒

If Yes, describe:

h. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?	Yes ☒ No ☐
i. Do any wetlands or other waterbodies adjoin the project site?	Yes ☒ No ☐

If Yes to either E.2.h or E.2.i, continue. If No, skip to E.2.m

j. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? (include map)	Yes ☒ No ☐

k. For each identified wetland and waterbody on the project site, provide the following information:

Streams:	Name:	Classification:
Lakes or Ponds:	Name:	Classification:
Wetlands:	Name: West Meadow Creek, Tidal Wetlands Adjacent to the Site and possibly on site. West Meadow Creek flows into Stony Brook Harbor	Approx. Size: Aprox 0.5 Acres on site based on Suffolk County GIS Mapping Program
Wetland No. (if regulated by DEC):		

l. Are any of the above waterbodies listed in the most recent compilation of NYS water quality-impaired waterbodies? **If Yes**, name of impaired water body/bodies and basis for listing as impaired: Stony Brook Harbor and West Meadow Creek are listed as impaired waterbodies in the 2016 list of impaired waterbodies by NYSDEC, ID # 1702-0047 for Urban/Storm runoff pathogens. (WIN # MW5.3, LIS-SB-SBH). The site is also listed as impaired by Suffolk County with the source of pollution listed as migratory species with the cause of pollution PCBs.	Yes ☒ No ☐
m. Is the project site in a designated floodway?	Yes ☐ No ☒
n. Is the project site in the 100 year floodplain?	Yes ☒ No ☐
o. Is the project site in the 500 year floodplain?	Yes ☒ No ☐
p. Is the project site located over or immediately adjoining a primary, principal or sole source aquifer? **If Yes:** Name of aquifer: Long Island Aquifer System Source of information: NYSDEC	Yes ☒ No ☐

q. Identify the predominant wildlife species that occupy or use the project site:

Semi-Active agricultural property with typical backyard species present		

r. Does the project site contain a designated significant natural community? **If Yes:** Describe the habitat/community (composition, function and basis for designation: Note: project site is immediately adjacent to a designated Signficant Fish and Wildlife Habitat - (Stony Brook Harbor and West Meadow) Source(s) of description or evaluation: New York State Department of State Extent of community/habitat: - Currently: acres - Following completion of project as proposed: acres - Gain or loss (indicate + or –): acres	Yes ☐ No ☒
s. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? **If Yes:** Species and listing (endangered or threatened): Nature of use of site by the species (e.g., resident, seasonal, transient):	Yes ☐ No ☒
t. Does project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? **If Yes:** Species and listing: Nature of use of site by the species (e.g., resident, seasonal, transient):	Yes ☐ No ☒
u. Is the project site or adjoining area currently used for hunting, trapping, fishing or shellfishing? If Yes, give a brief description of how the proposed action may affect that use:	Yes ☐ No ☒
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? **If Yes**, provide county plus district name/number:	Yes ☐ No ☒
b. Are agricultural lands consisting of highly productive soils present? **If Yes:** Acreage(s) on project site: Source(s) of soil rating(s):	Yes ☐ No ☒

c. Does the project site contain all or part of, or is it substantially contiguous to a registered National Natural Landmark? **If Yes:** Nature of the natural landmark: ☐ Biological Community; ☐ Geological Feature Provide brief description of landmark, including values behind designation and approximate size/extent:	Yes ☐ No ☒
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area, including Special Groundwater Protection Areas? **If Yes:** CEA name: Basis for designation: Designating agency and date:	Yes ☐ No ☒
e. Does the project site contain, or is it substantially contiguous to, a building, archeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places? **If Yes:** Nature of historic/archaeological resource: ☐ Archaeological Site; ☒ Historic Building or district Name: 15NR00108 - Old Field Club and Farm Brief description of attributes on which listing is based: The Old Field Club and Farm was a private recreational club organized in 1930 as an amenity for residents in the Old Field area. The club was made up of four parcels which each have a distinct identity: the Club, Schoolhouse, Farm and Horse Show grounds, and Beach Club and Cabanas.	Yes ☒ No ☐
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	Yes ☐ No ☒
g. Have additional archaeological or historic site(s) or resources been identified on the project site? **If Yes:** Describe possible resource(s): Basis for identification:	Yes ☐ No ☒
h. Would the project site be visible from any officially designated and publicly assessable federal, state or local scenic or aesthetic resource? **If Yes:** Identify resource: Nature of, or basis for designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): Distance between project and resource:	Yes ☐ No ☒

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR Part 666? **If Yes:** Identify the name of the river and its designation: Is the activity consistent with development restrictions contained in 6 NYCRR Part 666? Yes ☐ No ☐	Yes ☐ No ☒

F. Additional Information

Attach any additional information which may be needed to clarify your project.
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name: Date:

Signature: Title:

Envisioned Old Field Farm County Park Walking Path

Trail Option #1

Proposed Parking Area

Envisioned Old Field Farm County Park Walking Path

Trail Option #2

Proposed Parking Area

SUFFOLK COUNTY
FULL ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 2 – Identification of Potential Project Impacts

Instructions: Part 2 is to be completed by the lead agency. It is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

Tips for completing Part 2:

- _____ Review all of the information provided in Part 1.
- _____ Review any application, maps, supporting materials and the Full EAF Workbook.
- _____ Answer each of the 18 questions in Part 2.
- _____ If you answer "**YES**" to a numbered question, please complete all the questions that follow in that section.
- _____ If you answer "**NO**" to a numbered question, move on to the next numbered section.
- _____ Check appropriate column to indicate the anticipated size of the impact.
- _____ Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "**Moderate to large impact may occur.**"
- _____ The reviewer is not expected to be an expert in environmental analysis.
- _____ If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- _____ When answering a question consider all components of the proposed activity, that is, the "whole action."
- _____ Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- _____ Answer the question in a reasonable manner considering the scale and context of the project.

1. _____ **Impact on Land** The proposed action may involve construction on, or physical alteration of the land surface of the proposed site. (See Part 1.D.1) *If "YES", answer questions a-h. If "NO", move on to Section 2.*	YES ☒ NO ☐		
	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action may involve construction on land where depth to water table is less than 3 feet.	E.2.d	☒	☐
b. _____ The proposed action may involve construction on slopes of 15% or greater.	E.2.f	☒	☐
c. _____ The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E.2.a	☒	☐
d. _____ The proposed action may involve the excavation and removal of more than 1,000 tons of natural	D.2.a	☒	☐

material.			
e. _____ The proposed action may involve construction that continues for more than one year or in multiple phases.	D.1.g	☒	☐
f. _____ The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D.2.e D.2.q	☒	☐
g. _____ The proposed action is, or may be, located within a Coastal Erosion hazard area.	B.*ix*	☒	☐
h. _____ Other impacts:		☐	☐

2. _____ Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1.E.2.g)

YES ☐ NO ☒

If "YES", answer questions a-c. If "NO", move on to Section 3.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ Identify the specific land form(s):	E.2.g	☐	☐
b. _____ The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature:	E.3.c	☐	☐
c. _____ Other impacts:		☐	☐

3. _____ Impact on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes).
(See Part 1.D.2 & E.2.h)

YES ☒ NO ☐

If "YES", answer questions a-l. If "NO", move on to Section 4.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may create a new water body	D.1.j D.2.b	☒	☐
b. _____ The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D.2.b	☒	☐
c. _____ The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D.2.a	☒	☐
d. _____ The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E.2.h E.2.i	☒	☐
e. _____ The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by	D.2.a D.2.h	☒	☐

disturbing bottom sediments.			
f. _____ The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D.2.c	☒	☐
g. _____ The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D.2.d	☒	☐
h. _____ The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D.2.e	☒	☐
i._____ The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E.2.h – E.2.l	☒	☐
j._____ The proposed action may involve the application of pesticides or herbicides in or around any water body.	D.2.q E.2.h – E.2.l	☒	☐
k. _____ The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D.1.a D.2.d	☒	☐
l._____ Other impacts:			☐

4. _____ **Impact on Groundwater**
The proposed action may result in new or additional use of groundwater, or may have the potential to introduce contaminants to groundwater or an aquifer. (See Part 1.D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)
If "YES", answer questions a-h. If "NO", move on to Section 5.

YES ☐ NO ☒

	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D.2.c	☐	☐
b. _____ Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source:	D.2.c	☐	☐
c. _____ The proposed action may allow or result in residential uses in areas without water and sewer services.	D.1.a D.2.c – D.2.d	☐	☐
d. _____ The proposed action may include or require wastewater discharged to groundwater.	D.2.d E.2.p	☐	☐
e. _____ The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D.2.c E.1.f – E.1.h	☐	☐
f. _____ The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D.2.p E.2.p	☐	☐
g. _____ The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	D.2.q E.2.h – E.2.l E.2.p D.2.c	☐	☐

h. _____ Other impacts:		☐	☐

5. _____ Impact on Flooding The proposed action may result in development on lands subject to flooding. (See Part 1.E.2) *If "YES", answer questions a-g. If "NO", move on to Section 6.*	YES ☒ NO ☐		
	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action may result in development in a designated floodway.	E.2.m	☒	☐
b. _____ The proposed action may result in development within a 100 year floodplain.	E.2.n	☒	☐
c. _____ The proposed action may result in development within a 500 year floodplain.	E.2.o	☒	☐
d. _____ The proposed action may result in, or require, modification of existing drainage patterns.	D.2.b D.2.e	☒	☐
e. _____ The proposed action may change flood water flows that contribute to flooding.	D.2.b E.2.m – E.2.o	☒	☐
f. _____ If there is a dam located on the site of the proposed action, the dam has failed to meet one or more safety criteria on its most recent inspection.	E.1.e	☒	☐
g. _____ Other impacts:		☐	☐

6. _____ Impact on Air The proposed action may include a state regulated air emission source. (See Part 1.D.2.f, D.2.h, D.2.g) *If "YES", answer questions a-f. If "NO", move on to Section 7.*	YES ☐ NO ☒		
	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. _____ More than 1000 tons/year of carbon dioxide (CO2)	D.2.g	☐	☐
ii. _____ More than 3.5 tons/year of nitrous oxide (N20)	D.2.g	☐	☐
iii. _____ More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D.2.g	☐	☐
iv. _____ More than .045 tons/year of sulfur hexafluoride (SF6)	D.2.g	☐	☐
v. _____ More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflurocarbons (HCFCs) emissions	D.2.g	☐	☐
vi. 43 tons/year or more of methane	D.2.h	☐	☐
b. _____ The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous	D.2.g	☐	☐

air pollutants.			
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU=s per hour.	D.2.f D.3.g	☐	☐
d. _____ The proposed action may reach 50% of any two or more of the thresholds in "a" through "c", above.	D.1.i D.2.k	☐	☐
e. _____ The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D.2.s	☐	☐
f. _____ Other impacts:	☒	☐	☐

7. _____ **Impact on Plants and Animals**

The proposed action may result in a loss of flora or fauna. YES ☐ NO ☒

(See Part 1.E.2.q – E.2.u)

If "YES", answer questions a-j. If "NO", move on to Section 8.

	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E.2.s	☐	☐
b. _____ The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E.2.s	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E.2.t	☐	☐
d. _____ The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E.2.t	☐	☐
e. _____ The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E.3.c	☐	☐
f._____ The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source:	E.2.r	☐	☐
g. _____ The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E.2.q	☐	☐
h. _____ The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source:	E.1.b	☐	☐
i._____ Proposed action (commercial, industrial or recreational projects, only) involves use of	D.2.q	☐	☐

herbicides or pesticides.			
j. _____ Other impacts:	☒	☐	☐

8. _____ Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1.E.3.a & E.3.b) YES ☒ NO ☐

If "YES", answer questions a-h. If "NO", move on to Section 9.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E.2.c E.3.b	☒	☐
b. _____ The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc.).	E.1.a E.1.b	☒	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E.3.b	☒	☐
d. _____ The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District or more than 10 acres if not within an Agricultural District.	E.1.b E.3.a	☒	☐
e. _____ The proposed action may disrupt or prevent installation of an agricultural land management system.	E.1.a E.1.b	☒	☐
f. _____ The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C.2.c, C.3 D.2.c, D.2.d	☒	☐
g. _____ The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C.2.c	☒	☐
h. _____ Other impacts:	☒	☐	☐

9. _____ Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (See Part 1.E.1.a, E.1.b, E.3.h) YES ☐ NO ☒

If "YES", answer questions a-g and complete Appendix B - Visual EAF Addendum. If "NO", move on to Section 10.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E.3.h	☐	☐
b. _____ The proposed action may	C.2.b	☐	☐

result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E.3.h		
c. The proposed action may be visible from publicly accessible vantage points:			
i. Seasonally (e.g., screened by summer foliage, but visible during other seasons)	E.3.h	☐	☐
ii. Year round	E.3.h	☐	☐
d. _____ The situation or activity in which viewers are engaged while viewing the proposed action is:	E.3.h		
i. Routine travel by residents, including travel to and from work	E.2.u	☐	☐
ii. Recreational or tourism based activities	E.1.c	☐	☐
e. _____ The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E.3.h	☐	☐
f. _____ There are similar projects visible within the following distance of the proposed project:	D.1.a		
0 – ½ mile	D.1.h	☐	☐
½ – 3 mile	D.1.i	☐	☐
3 – 5 mile	E.1.a	☐	☐
5+ mile		☐	☐
g. _____ Other impacts:		☐	☐

10. _____ Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to an historic or archaeological resource. (See Part 1.E.3.e, E.3.f, E.3.g) YES ☒ NO ☐

If "YES", answer questions a-e. If "NO", move on to Section 11.

	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E.3.e	☒	☐
b. _____ The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E.3.f	☒	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source:	E.3.g	☒	☐
d. _____ Other impacts:		☐	☐
e. _____ If any of the above (a-d) are answered "Yes", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E.3.e – E.3g	☐	☐

ii. The proposed action may result in the alteration of the property's setting or integrity. iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E.1.a, E.1.b E.3.e – E.3.g C2, C3 E.3.g, E.3.h	☐ ☐	☐ ☐

11. _____ Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1.C.2.c, E.1.c, E.2.u)

YES ☐ NO ☒

If "YES", answer questions a-e. If "NO", move on to Section 12.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, and wildlife habitat.	D.2.e, E.1.b E.2.h – E.2.l E.2.q – E.2.t	☐	☐
b. _____ The proposed action may result in the loss of a current or future recreational resource.	C.2.a, C.2.c E.1.c, E.2.u	☐	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C.2.a, C.2.c E.1.c, E.2.u	☐	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C.2.c, E.1.c	☐	☐
e. _____ Other impacts:		☐	☐

12. _____ Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1.E.3.d)

YES ☐ NO ☒

If "YES", answer questions a-c. If "NO", move on to Section 13.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E.3.d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E.3.d	☐	☐
c. _____ Other impacts:		☐	☐

13. _____ Impact on Transportation

The proposed action may result in a change to existing transportation systems. (See Part 1.D.2.j)

YES ☐ NO ☒

If "YES", answer questions a-f. If "NO", move on to Section 14.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ Projected traffic increase	D.2.j	☐	☐

may exceed capacity of existing road network.			
b. _____ The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D.2.j	☐	☐
c. _____ The proposed action will degrade existing transit access.	D.2.j	☐	☐
d. _____ The proposed action will degrade existing pedestrian or bicycle accommodations.	D.2.j	☐	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D.2.j	☐	☐
f._____ Other impacts:	☒	☐	☐

14. _____ Impact on Energy

The proposed action may cause an increase in the use of any form of energy (See Part 1.D.2.k) YES ☐ NO ☒

If "YES", answer questions a-e. If "NO", move on to Section 15.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action will require a new, or an upgrade to an existing, substation.	D.2.k	☐	☐
b. _____ The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D.1.h D.1.i D.2.k	☐	☐
c. _____ The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D.2.k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D.1.i	☐	☐
e. _____ Other impacts:	☒	☐	☐

15. _____ Impact on Noise, Odor and Light

The proposed action may result in an increase in noise, odors or outdoor lighting (See Part 1.D.2.m, D.2.n, D.2.o) YES ☒ NO ☐

If "YES", answer questions a-f. If "NO", move on to Section 16.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may produce sound above noise levels established by local regulation.	D.2.m	☒	☐
b. _____ The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D.2.m E.1.d	☒	☐
c. _____ The proposed action may result in routine odors for more than one hour per day.	D.2.o	☒	☐
d. _____ The proposed action may result in light shining onto adjoining properties.	D.2.n	☒	☐
e. The proposed action may result in lighting that creates sky-glow brighter than existing-area conditions.	D.2.n E.1.a	☒	☐

f. _____ Other impacts:		☐	☐

16. _____ Impact on Human Health The proposed action may have an impact on human health from exposure to new or existing sources of contaminants (See Part 1.D.2.q, E.1.d, E.1.f, E.1.g, E.1.h) *If "YES", answer questions a-m. If "NO", move on to Section 17.*		YES ☐ NO ☒	
	Relevant Part 1 Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. _____ The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E.1.d	☐	☐
b. _____ The site of the proposed action is currently undergoing remediation.	E.1.g, E.1.h	☐	☐
c. _____ There is a completed emergency spill remediation or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E.1.g E.1.h	☐	☐
d. _____ The site of the action is subject to an institutional control limiting the use of the property (e.g. easement, deed restriction)	E.1.g E.1.h	☐	☐
e. _____ The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E.1.g E.1.h	☐	☐
f. _____ The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D.2.t	☐	☐
g. _____ The proposed action involves construction or modification of a solid waste management facility.	D.2.q E.1.f	☐	☐
h. _____ The proposed action may result in the unearthing of solid or hazardous waste.	D.2.q E.1.f	☐	☐
i. _____ The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D.2.r D.2.s	☐	☐
j. _____ The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E.1.f – E.1.h	☐	☐
k. _____ The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E.1.f E.1.g	☐	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D.2.r, D.2.s E.1.f	☐	☐
m. _____ Other impacts:		☐	☐

17. _____ Consistency with Community Plans The proposed action is not consistent with adopted land use plans. (See Part 1.C.1, C.2, C.3) *If "YES", answer questions a-h. If "NO", move on to Section 18.*	YES ☐ NO ☒

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C.2, C.3, D.1.a, E.1.a, E.1.b	☐	☐
b. _____ The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C.2	☐	☐
c. _____ The proposed action is inconsistent with local land use plans or zoning regulations.	C.2, C.3	☐	☐
d. _____ The proposed action is inconsistent with any County plans, or other regional land use plans.	C.2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C.3 D.1.e, D.1.f, D.1.h, E.1.b	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C.4, D.2.c, D.2.d, D.2.j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C.2.a	☐	☐
h. _____ Other impacts:		☐	☐

18. _____ Consistency with Community Character

The proposed action is inconsistent with the existing community character (See Part 1.C.2, C.3, D.2, E.3) YES ☐ NO ☒

If "YES", answer questions a-g. If "NO", move on to Part 3.

	Relevant Part 1 Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. _____ The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E.3.e, E.3.f, E.3.g	☐	☐
b. _____ The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C.4	☐	☐
c. _____ The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C.2, C.3,D.1.h, D.1.i, E.1.a	☐	☐
d. _____ The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C.2, E.3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C.2, C.3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C.2, C.3, E.1.a, E.1.b, E.2.g – E.2.l	☐	☐
g. _____ Other impacts:		☐	☐

SUFFOLK COUNTY
FULL ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
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Part 3 – Evaluation of the Magnitude and Importance of Project Impacts and Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:
To complete this section:

* _____ Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
* _____ Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
* _____ The assessment should take into consideration any design element or project changes.
* _____ Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
* _____ Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
* _____ For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
* _____ Attach additional sheets, as needed.

Determination of Significance
Type 1 and Unlisted Actions

SEQR Status: Type I ☐ Unlisted ☐

Identify portions of EAF completed for this project: Part 1 ☐ Part 2 ☐ Part 3 ☐

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of as lead agency that:

☐ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action:

Name of Lead Agency:

Name of Responsible Officer in Lead Agency:

Title of Responsible Officer in Lead Agency:

Signature of Responsible Officer in Lead Agency: Date:

Signature of Preparer (if different from Responsible Officer) Date:

For Further Information:
Contact Person:
Address:
Telephone Number:
Email:

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:
Chief Executive Officer of the political subdivision in which the action will be principally located (Town/City/Village)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

COUNTY OF SUFFOLK

STEVEN BELLONE
COUNTY EXECUTIVE

DEPARTMENT OF ECONOMIC DEVELOPMENT AND PLANNING
DIVISION OF PLANNING AND ENVIRONMENT

COUNCIL ON ENVIRONMENTAL QUALITY

Lawrence Swanson
Chairperson
CEQ

MEMORANDUM

TO: Interested/Involved Parties

FROM: John Corral, Senior Planner

DATE: April 10, 2018

RE: Proposed Suffolk County Science Forensic Latent Fingerprint ID Lab at the Suffolk County Yaphank County Center, Town of Brookhaven

Enclosed is an Environmental Assessment Form for the above referenced County project which has been submitted to the Council on Environmental Quality (CEQ) for review. Pursuant to Title 6 NYCRR Part 617 and Chapter 450 of the Suffolk County Code, the CEQ must recommend a SEQRA classification for the action and determine whether it may have a significant adverse impact on the environment which would require the preparation of a Draft Environmental Impact Statement (DEIS).

The Council would like to know your environmental concerns regarding this proposal and whether you think a DEIS or a determination of non-significance is warranted. This project will be discussed at the **April 18, 2018** CEQ meeting. If you are unable to attend the meeting to present your views, please forward any recommendations or criticisms to this office prior the date of the meeting. **If the Council has not heard from you by the meeting date, they will assume that you feel that the action will not have significant adverse environmental impacts and should proceed accordingly.**

JC/cd
Enc.

cc: John Sohngen, Principal Public Health Engineer
Suffolk County Department of Health Services
Andrew P. Freleng, Chief Planner
Department of Economic Development and Planning

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
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Instructions: The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current available information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action/Project: Forensic Science Latent Fingerprint ID Lab		
Project Location (include map): Yaphank Avenue, Yaphank, NY 11980		
Brief Description of Proposed Action (include purpose, intent and the environmental resources that may be affected): The objective of this project is to construct and accredit a new state of the art standalone latent finger print laboratory facility located at the Suffolk County Yaphank County Center, Yaphank, New York, specializing in evidence latent finger print processing, maintenance of a fingerprint repository and fingerprint searches and comparisons. Although there will be other unaccredited specialties designed into the new laboratory facility, the intended accredited specialties that will be included are as follows: a. Latent Fingerprint Processing b. Fingerprint Comparison c. Individual Pattern Interpretation		
Name of Applicant/Project Sponsor: Suffolk County Police Department/ SCDPW		Email: frank.messana@suffolkcountyny.gov Telephone #: 631-852-6000
Address: 30 Yaphank Avenue		
City/P.O.: Yaphank	State: NY	Zip Code: 11980
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule or regulation? **If Yes**, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. **If No**, continue to question 2.		Yes ☐ No ☒
2. Does the proposed action require a permit, approval or funding from any other governmental agency? **If Yes**, list agency(s) name and permit or approval: Suffolk County Department of Health Services Suffolk County Department of Public Works		Yes ☒ No ☐
3a. Total acreage of the site of the proposed action: 2.5		

3b. Total acreage to be physically disturbed: 1.5	
3c. Total acreage (project site and contiguous properties) owned or controlled by the applicant or project sponsor: 683 +/-	
4. Check all land uses that occur on, adjoining and near the proposed action: ☐ Urban ☐ Forest ☐ Parkland ☒ Agriculture ☐ Rural (non-agriculture) ☐ Industrial ☐ Aquatic ☒ Commercial ☐ Residential (suburban) ☒ Other: Governmental	
5a. Is the proposed action a permitted use under the zoning regulations?	Yes ☒ No ☐ N/A ☐
5b. Is the proposed action consistent with an adopted comprehensive plan?	Yes ☒ No ☐ N/A ☐
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	Yes ☒ No ☐ N/A ☐
7. Is the site of the proposed action located in, or adjoining a state listed Critical Environmental Area (CEA)? **If Yes**, identify CEA:	Yes ☐ No ☒
8a. Will the proposed action result in a substantial increase in traffic above present levels?	Yes ☐ No ☒
8b. Are public transportation services available at or near the site of the proposed action?	Yes ☒ No ☐
8c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	Yes ☒ No ☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: Project will be designed to achieve at least 28 potential LEED Credits	Yes ☒ No ☐ N/A ☐
10. Will the proposed action connect to an existing public/private water supply? **If Yes**, does the existing system have capacity to provide service? Yes ☒ No ☐ **If No,** describe method for providing potable water:	Yes ☒ No ☐ N/A ☐
11. Will the proposed action connect to existing wastewater utilities? **If Yes,** does the existing system have capacity to provide service? Yes ☒ No ☐ **If No,** describe method for providing wastewater treatment:	Yes ☒ No ☐ N/A ☐
12a. Does the site contain a structure that is listed on either the State or National Register of Historic Places or dedicated to the Suffolk County Historic Trust?	Yes ☐ No ☒
12b. Is the proposed action located in an archeological sensitive area?	Yes ☐ No ☒

13a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	Yes ☐ No ☒
13b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? **If Yes**, identify the wetland or waterbody and extent of alterations in square feet or acres:	Yes ☐ No ☒

14. Identify the typical habitat types that occur on, or are likely to be found on the project site (check all that apply):

☐ Shoreline ☐ Forest ☒ Agricultural/grasslands ☒ Early/mid-successional
☐ Wetland ☐ Urban ☐ Suburban

15. Does the site of the proposed action contain any species of animal or associated habitats, listed by the State or Federal government as threatened or endangered?	Yes ☐ No ☒
16. Is the project site located in the 100 year flood plain?	Yes ☐ No ☒
17. Will the proposed action create storm water discharge, either from point or non-point sources? **If Yes,** a. Will storm water discharges flow to adjacent properties? Yes ☐ No ☒ b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? Yes ☒ No ☐ **If Yes,** describe: All storm water runoff will be maintained on site through the use of natural drainage and if necessary storm drains/catch basins .	Yes ☒ No ☐
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? **If Yes,** explain size and purpose:	Yes ☐ No ☒
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? **If Yes,** describe:	Yes ☐ No ☒
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? **If Yes,** describe:	Yes ☐ No ☒

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/Sponsor Name: Paul J. Clinton Date: 4-10-18

Signature:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 2 – Impact Assessment (To be completed by Lead Agency)

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	☒	☐
2. Will the proposed action result in a change in the use or intensity of use of land?	☒	☐
3. Will the proposed action impair the character or quality of the existing community?	☒	☐
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	☒	☐
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	☒	☐
6. Will the proposed action cause an increase in the use of energy and fail to incorporate reasonably available energy conservation or renewable energy opportunities?	☒	☐
7. Will the proposed action impact existing public/private water supplies?	☒	☐
8. Will the proposed action impact existing public/private wastewater treatment utilities?	☒	☐
9. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	☒	☐
10. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	☒	☐
11. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	☒	☐
12. Will the proposed action create a hazard to environmental resources or human health?	☒	☐

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 3 – Determination of Significance

The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts. Attach additional pages as necessary.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required. (Positive Declaration)

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation that the proposed action will not result in any significant adverse environmental impacts. (Negative Declaration)

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

LEED for New Construction - Version 2.2

Project Name: Yaphank Police Department Latent Print Laboratory

Project Address: 335 Yaphank Avenue, Yaphank, New York

28 Possible Project Totals (Pre-Certification Estimates)

Certified: 26-32 points Silver: 33-38 points Gold: 39-51 points Platinum: 52-69 points

YES

9	Sustainable Sites	
Y	Prereq 1	Construction Activity Pollution Prevention
0	Credit 1	Site Selection
0	Credit 2	Development Density & Community Connectivity
0	Credit 3	Brownfield Redevelopment
1	Credit 4.1	Alternative Transportation - Public Transportation
0	Credit 4.2	Alternative Transportation - Bicycle Storage & Changing Rooms
1	Credit 4.3	Alternative Transportation - Low-Emitting & Fuel Efficient Vehicles
1	Credit 4.4	Alternative Transportation - Parking Capacity
1	Credit 5.1	Site Development - Protect or Restore Habitat
1	Credit 5.2	Site Development - Maximize Open Space
1	Credit 6.1	Stormwater Design - Quantity Control
0	Credit 6.2	Stormwater Design - Quality Control
1	Credit 7.1	Heat Island Effect - Non-Roof
1	Credit 7.2	Heat Island Effect - Roof
1	Credit 8	Light Pollution Reduction

YES

4	Water Efficiency	
1	Credit 1.1	Water Efficiency Landscaping - Reduce by 50%
1	Credit 1.2	Water Efficiency Landscaping - No portable Use or No Irrigation
0	Credit 2	Innovative Wastewater Technologies
1	Credit 3.1	Water Use Reduction - 20% Reduction
1	Credit 3.2	Water Use Reduction - 30% Reduction

YES

3	Energy & Atmosphere	
Y	Prereq 1	Fundamental Commissioning of the Building Energy Systems
Y	Prereq 1	Minimum Energy Performance
Y	Prereq 1	Fundamental Refrigerant Management
2	Credit 1	Optimize Energy Performance
0	Credit 1.1	10% New Buildings / 3.5% Existing Building Renovations
0	Credit 1.2	14% New Buildings / 7% Existing Building Renovations
0	Credit 1.3	17.5% New Buildings / 10.5% Existing Building Renovations
0	Credit 1.4	21% New Buildings / 14% Existing Building Renovations
0	Credit 1.5	24.5% New Buildings / 17.5% Existing Building Renovations
0	Credit 1.6	28% New Buildings / 21% Existing Building Renovations
0	Credit 1.7	31.5% New Buildings / 24.5% Existing Building Renovations
0	Credit 1.8	35% New Buildings / 28% Existing Building Renovations
0	Credit 1.9	38.5% New Buildings / 31.5% Existing Building Renovations
0	Credit 1.10	42% New Buildings / 35% Existing Building Renovations

YES

-	Energy & Atmosphere (cont.)	
0	Credit 2	On-Site Renewable Energy
0	Credit 2.1	2.5% Renewable Energy
0	Credit 2.2	7.5% Renewable Energy
0	Credit 2.3	12.5% Renewable Energy
0	Credit 3	Enhanced Commissioning
1	Credit 4	Enhanced Refrigerant Management
0	Credit 5	Measurement & Verification
0	Credit 6	Green Power

YES

3	Materials & Resources	
Y	Prereq 1	Storage & Collection of recyclables
0	Credit 1.1	Building Reuse - Maintain 75% of Existing Walls, Floors & Roof
0	Credit 1.2	Building Reuse - Maintain 95% of Existing Walls, Floors & Roof
0	Credit 1.3	Building Reuse - Maintain 50% of Interior Non-Structural Elements
0	Credit 2.1	Construction Waste Management - Divert 50% from Disposal
0	Credit 2.2	Construction Waste Management - Divert 75% from Disposal
1	Credit 3.1	Material Reuse - 5%
1	Credit 3.2	Material Reuse - 10%
1	Credit 4.1	Recycled Content - 10% (Post-Consumer + 0.5 Pre-Consumer)
0	Credit 4.2	Recycled Content - 20% (Post-Consumer + 0.5 Pre-Consumer)
0	Credit 5.1	Regional Materials - 10% Extracted, Processed & Manufactured
0	Credit 5.2	Regional Materials - 20% Extracted, Processed & Manufactured
0	Credit 6	Rapidly Renewable Materials
0	Credit 7	Certified Wood

YES

8	Indoor Environmental Quality	
Y	Prereq 1	Minimum IAQ Performance
Y	Prereq 1	Environmental Tobacco Smoke (ETS) Control
1	Credit 1	Outdoor Air Delivery Monitoring
0	Credit 2	Increased Ventilation
1	Credit 3.1	Construction IAQ Management Plan - During Construction IAQ
1	Credit 3.2	Management Plan - Before Occupancy
1	Credit 4.1	Low-Emitting Materials - Adhesive & Sealants
1	Credit 4.2	Low-Emitting Materials - Paints & Coatings
0	Credit 4.3	Low-Emitting Materials - Carpet Systems
0	Credit 4.4	Low-Emitting Materials - Composite Woods & Agrifiber Products
1	Credit 5	Indoor Chemical & Pollutant Source Control
1	Credit 6.1	Controllability of Systems - Lighting

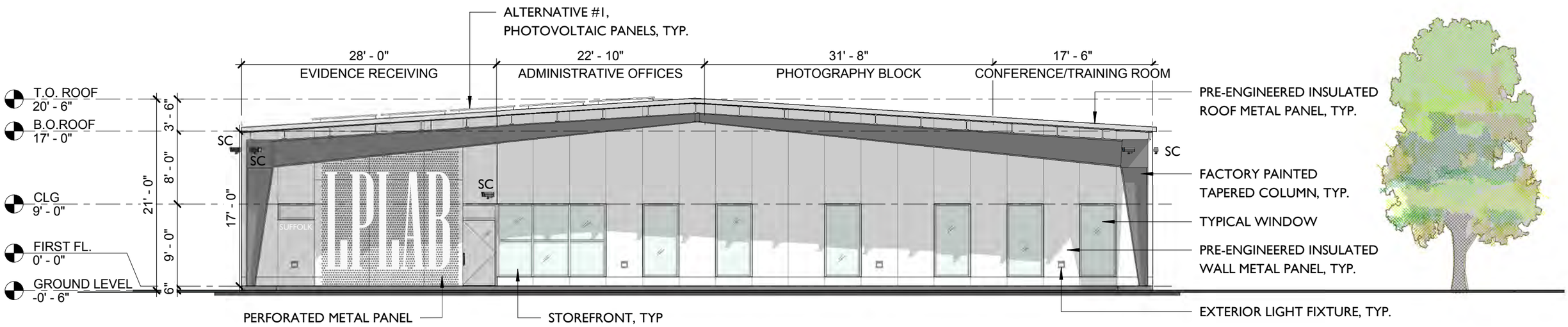
YES

-	Indoor Environmental Quality (cont.)	
0	Credit 6.2	Controllability of Systems - Thermal Comfort
1	Credit 7.1	Thermal Comfort - Design
0	Credit 7.2	Thermal Comfort - Verification
0	Credit 8.1	Daylight & Views - Daylight 75% of Spaces
0	Credit 8.2	Daylight & Views - Views for 90% of Spaces

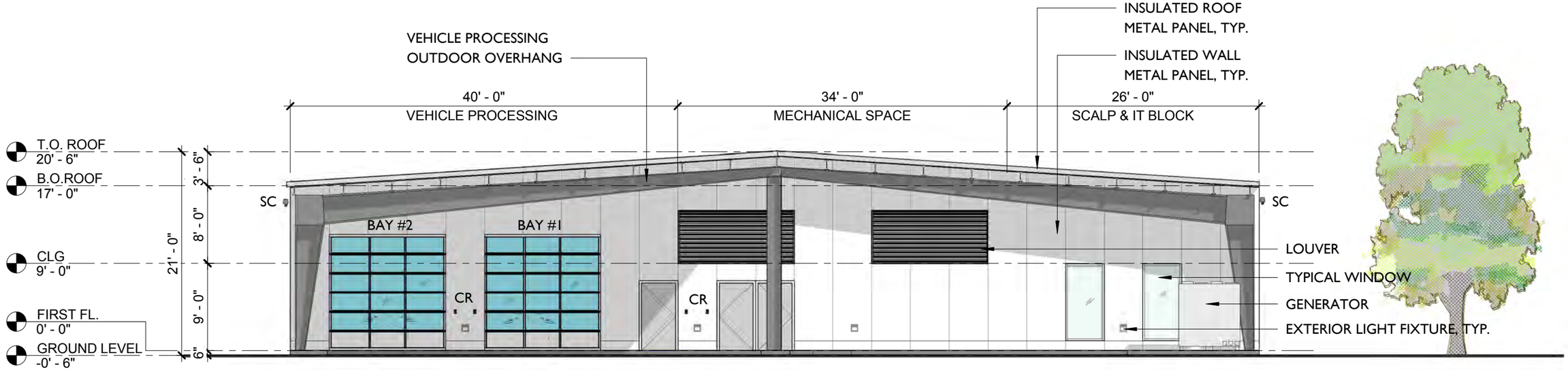
YES

1	Water Efficiency	
0	Credit 1.1	Innovation in Design:
0	Credit 1.2	Innovation in Design:
0	Credit 1.3	Innovation in Design:
0	Credit 1.4	Innovation in Design:
1	Credit 2	LEED Accredited Professional

LiRo Architects + Planners LC
1 State Street, 28th floor, New York, NY 10004
212.563.0280 [P]



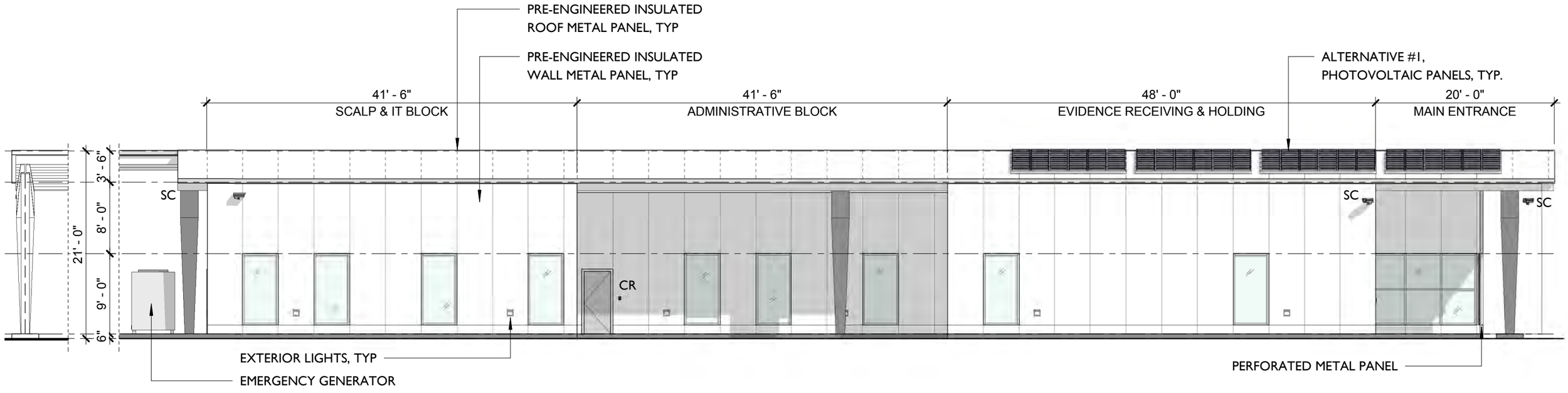
EAST ELEVATION



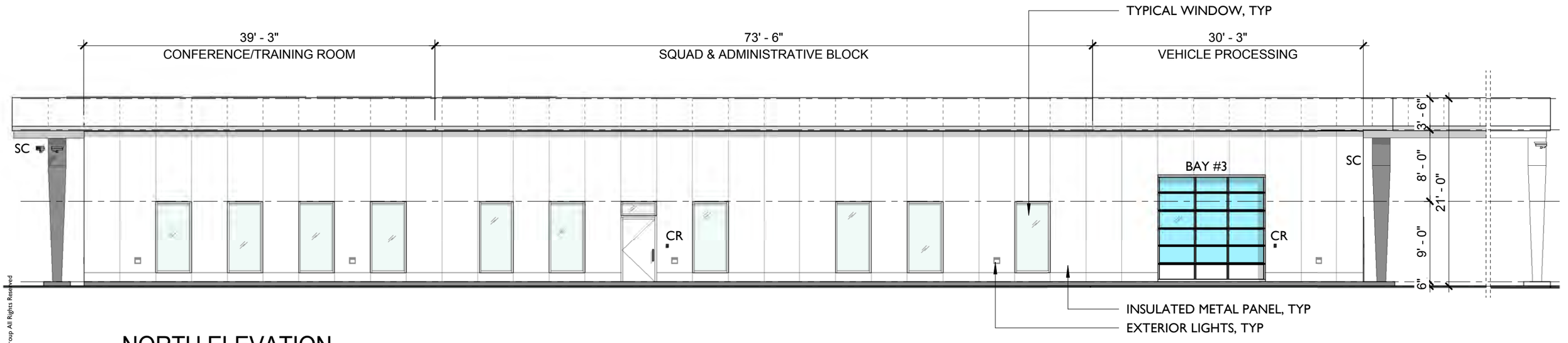
WEST ELEVATION

BUILDING ELEVATIONS - 2, SCALE: 3/32"=1'-0"

LiRo Architects + Planners LC
1 State Street, 28th floor, New York, NY 10004
212.563.0280 [P]



SOUTH ELEVATION



NORTH ELEVATION

BUILDING ELEVATIONS - 1, SCALE: 3/32"=1'-0"

LiRo Architects + Planners LC
1 State Street, 28th floor, New York, NY 10004
212.563.0280 [P]

NEW FACILITY FLOOR PLAN, SCALE: 1"=20'-0"

LiRo Architects + Planners LC
1 State Street, 28th floor, New York, NY 10004
212.563.0280 [P]

COUNTY OF SUFFOLK

STEVEN BELLONE
COUNTY EXECUTIVE
DEPARTMENT OF ECONOMIC DEVELOPMENT AND PLANNING
DIVISION OF PLANNING AND ENVIRONMENT

COUNCIL ON ENVIRONMENTAL QUALITY

LAWRENCE SWANSON
CHAIRPERSON
CEQ

MEMORANDUM

TO: Interested/Involved Parties

FROM: John Corral, Senior Planner JC

DATE: April 10, 2018

RE: Proposed Rehabilitation of Deer Lake, CP8716, Towns of Babylon and Islip

---

Enclosed please find water quality data which was requested by the CEQ at their November 15, 2017 meeting. Also enclosed for reference is the Environmental Assessment Form that was originally submitted to the CEQ for the November 15, 2017 meeting. Pursuant to Title 6 NYCRR Part 617 and Chapter 450 of the Suffolk County Code, the CEQ must recommend a SEQRA classification for the action and determine whether it may have a significant adverse impact on the environment which would require the preparation of a Draft Environmental Impact Statement (DEIS).

The Council would like to know your environmental concerns regarding this proposal and whether you think a DEIS or a determination of non-significance is warranted. This project will be discussed at the **April 18, 2018** CEQ meeting. If you are unable to attend the meeting to present your views, please forward any recommendations or criticisms to this office prior the date of the meeting. **If the Council has not heard from you by the meeting date, they will assume that you feel that the action will not have significant adverse environmental impacts and should proceed accordingly.**

JC/cd
Enc.

cc: John Sohngen, Principal Public Health Engineer, Suffolk County Department of Health Services
Andrew P. Freleng, Chief Planner, Suffolk County Dept. of Economic Development and Planning

P.W. GROSSER CONSULTING

March 22, 2018

Suffolk County Department of Public Works
335 Yaphank Avenue
Yaphank, New York 11980

Attn. Paul J. Clinton, A.I.A., LEED A.P.
Architect

Re: Weeks Road and Bayshore Road
Water Quality Sampling Results

Dear Mr. Clinton:

PW Grosser Consulting PWGC) has reviewed the results of the water quality testing that was performed on 1/22/2018 and 1/25/18 by the Suffolk County Department of Health at the above referenced location. PWGC has the following comments:

1. The groundwater samples were collected from five distinct zones comprised of the following:
   a. 10 – 15 feet below grade surface
   b. 30 – 35 feet below grade surface
   c. 50 – 55 feet below grade surface
   d. 70 – 75 feet below grade surface
   e. 110 – 115 feet below grade surface

2. Each sample was tested for volatile organics, chlorinated pesticides, microextractibles, 1,4-Dioxane, semi-volatile organics, Herbicide Metabolites, Aldicarb Pesticides, Dacthal, Metals, Inorganics, Ammonia, pH and field conductivity.

3. The sample collected between 10 to 15 feet below the grade surface had several volatile organic compounds that exceeded New York State Department of Health (NYSDOH) drinking water standards. The contaminates identified were propylbenzene, diethylbenzene, 1,2,4,5 tetramethylbenzene, isopropylbenzene, sec butylbenzene and n-butylbenzene.

4. The samples collected between 30 to 35 feet and 50 to 55 below the grade surface had no contaminates above NYSDOH drinking water standards.

5. The sample collected between 70 to 75 feet below the grade surface had two (2) volatile organic compounds above NYSDOH drinking water standards. The contaminates identified were methyl-tertiary-butyl-ether and cis-1,2 dichlorethene.

6. The sample collected between 110 to 115 feet below the grade surface had three (3) volatile organic compounds and one (1) semi volatile organic compound with a trace concentration above NYSDOH drinking water standards. The identified volatile organic compounds were trichlorethene, methyl-tertuary-buty-ether and tetrechlorethene. The identified semi- volatile organic compound is diethylolumide.

Based on the sampling results, PWGC believes a well could be installed with the screen zone set between 30-55 feet below the grade surface. This zone contains acceptable water quality for the purpose of pumping and augmenting the flow to Deer Lake.

If you have any questions please do not hesitate to contact my office.

Very truly yours,
P.W. Grosser Consulting Engineer and Hydrogeologist, P.C.

Gerry Rosen, P.E.
Vice President

Field#: 020 -886-180125
Date Collected: 01/25/18
Time Collected: 12:56
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports)

WR-1 (10-15)
Weeks Rd, Deer Park
Deer Park PCA

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☒ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☒ Well ☐ Other _____
Temperature Control (°C) 1.5 ☐ Flamed Tap

☒ **Volatile Organics**	☒ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☒ **Metals** (Filtered / Soluble)
☒ **Chlorinated Pesticides**	☒ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☒ **Microextractibles**	☒ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☒ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☒ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☒ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☒ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: 6.97 Field Conductivity(uS): 282.9 Field Chlorine Residual (mg/L): _____ #Containers: 14
Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	9.45	**STATION NAME**	
FIELD TURBIDITY	24.98	TASK / PROJECT #	
FIELD D.O.	1.05	WELL DIAMETER (in)	2
FIELD TEMP. (°C)	14.0	WELL DEPTH (ft)	20
FIELD pH	6.97	**SCREEN TOP (ft)**	10
FIELD COND.	282.9	**SCREEN BOTTOM (ft)**	15
FIELD ORP	-79	SUMP LENGTH (ft)	5
SUBMERSIBLE (GPM)		MONITORING WELL / PROFILE #	6
PERISTALTIC / WATERRA / SURFACE		TOTAL PURGED (Gallons)	15

COMMENTS:

GPS COORDINATES - NORTH 40.741439 **WEST** 073.307444

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: 020-886-180125
Collection Date: 1/25/2018
Collection Time: 12:56:00 PM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00371**
Submission Date: 1/25/2018
Sample ID: ZA00371
Sample Type: TESTWELL
TC: 1.5°C (0-6 Acceptable)

Source: WR-1 (10-15), Weeks Rd., Deer Park, Deer Park Pond

VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 524.2

DB#	Analyte	Result		DB#	Analyte	Result		DB#	Analyte	Result	
C0615	Chlorodifluoromethane	< 0.5	ppb	C0307	1,1-Dichloroethene[a]	< 0.5	ppb	C0436	Dichlorodifluoromethane[a]	< 0.5	ppb
C0302	Bromodichloromethane[a]	< 0.5	ppb	C0419	1,3,5-Trimethylbenzene[a]	< 0.5	ppb	C0612	Chloroethane[a]	< 0.5	ppb
C0406	2,3-Dichloropropene	< 0.5	ppb	C0418	1,2,4-Trimethylbenzene[a]	< 0.5	ppb	C0611	Bromomethane[a]	< 0.5	ppb
C0407	cis-1,3-Dichloropropene[a]	< 0.5	ppb	C0610	Chloromethane[a]	< 0.5	ppb	C0408	trans-1,3-Dichloropropene[a]	< 0.5	ppb
C0412	1,2-Dichlorobenzene (o)[a]	< 0.5	ppb	C0439	Trichlorofluoromethane[a]	< 0.5	ppb	C0322	1,1,2-Trichloroethane[a]	< 0.5	ppb
C0462	1,3-Dichlorobenzene (m)[a]	< 0.5	ppb	C0306	Vinyl chloride[a]	< 0.5	ppb	C0409	1,1,1,2-Tetrachloroethane[a]	< 0.5	ppb
C0463	1,4-Dichlorobenzene (p)[a]	< 0.5	ppb	C0432	p-Diethylbenzene	4	ppb	C0305	Methylene chloride[a]	< 0.5	ppb
C0295	1,1,2,2-Tetrachloroethane[a]	< 0.5	ppb	C0435	1,2,4,5-Tetramethylbenzene	1.1	ppb	C0323	1,1-Dichloroethane[a]	< 0.5	ppb
C0433	1,2,3-Trichloropropane[a]	< 0.5	ppb	C0437	1,2,4-Trichlorobenzene[a]	< 0.5	ppb	C0309	trans-1,2-Dichloroethene[a]	< 0.5	ppb
C0450	2,2-Dichloropropane[a]	< 0.5	ppb	C0438	1,2,3-Trichlorobenzene[a]	< 0.5	ppb	C0300	Chloroform[a]	< 0.5	ppb
C0451	1,3-Dichloropropane[a]	< 0.5	ppb	C0600	Ethenylbenzene (Styrene)[a]	< 0.5	ppb	C0324	1,2-Dichloroethane[a]	< 0.5	ppb
C0290	Bromochloromethane[a]	< 0.5	ppb	C0601	Isopropylbenzene[a]	0.6	ppb	C0321	1,1,1-Trichloroethane[a]	< 0.5	ppb
C0602	n-Propylbenzene[a]	4.2	ppb	C0304	Carbon tetrachloride[a]	< 0.5	ppb	C0603	tert-Butylbenzene[a]	< 0.5	ppb
C0294	1-Bromo-2-chloroethane	< 0.5	ppb	C0250	Benzene[a]	< 0.5	ppb	C0604	sec-Butylbenzene[a]	2.7	ppb
C0405	1,2-Dichloropropane[a]	< 0.5	ppb	C0251	Toluene[a]	< 0.5	ppb	C0605	p-Isopropyltoluene[a]	< 0.5	ppb
C0310	Trichloroethene[a]	< 0.5	ppb	C0258	Chlorobenzene[a]	< 0.5	ppb	C0606	n-Butylbenzene[a]	4.9	ppb
C0701	Naphthalene[a]	< 0.5	ppb	C0303	Chlorodibromomethane[a]	< 0.5	ppb	C0259	Ethylbenzene[a]	< 0.5	ppb
C0607	Hexachlorobutadiene[a]	< 0.5	ppb	C0420	2-Bromo-1-chloropropane	< 0.5	ppb	C0254	o-Xylene	< 0.5	ppb
C0614	Methyl-tertiary-butyl-ether[a]	< 0.5	ppb	C0301	Bromoform[a]	< 0.5	ppb	C0260	m,p-Xylene	< 0.5	ppb
C0311	Tetrachloroethene[a]	< 0.5	ppb	C0255	Total Xylene[a]	< 0.5	ppb	C0059	1,4-Dichlorobutane	< 0.5	ppb
C0308	cis-1,2-Dichloroethene[a]	< 0.5	ppb	C0620	Methyl sulfide	< 0.5	ppb	C0320	Freon 113	< 0.5	ppb
C0266	2-Chlorotoluene[a]	< 0.5	ppb	C0058	Dimethyldisulfide	< 0.5	ppb	C0292	Dibromomethane[a]	< 0.5	ppb
C0257	Bromobenzene[a]	< 0.5	ppb	C0613	1,1-Dichloropropene[a]	< 0.5	ppb	C0268	4-Chlorotoluene[a]	< 0.5	ppb
C0619	2-Butanone (MEK)	< 20.	ppb	C0465	Methyl isothiocyanate	< 2.	ppb	C0453	Diethyl ether	< 0.5	ppb
C0621	Tetrahydrofuran	< 20.	ppb	C0456	Acrylonitrile	< 0.5	ppb	C0458	Methylmethacrylate	< 0.5	ppb
C0469	Ethylmethacrylate	< 0.5	ppb	C0467	Methacrylonitrile	< 0.5	ppb	C0460	d-Limonene	< 0.5	ppb
C0622	Propanal	< 15.	ppb	C0721	Isobutane	< 2.	ppb	C0722	n-Butane	< 2.	ppb
C0455	Carbon disulfide	< 0.5	ppb	C0466	Allyl chloride	< 0.5	ppb	83 Components			

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Comments:

Reviewed By: RTC Analyst(s): JC
Date Analyzed: 1/25/2018 Report Date: 1/30/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **020-886-180125**
Collection Date: 1/25/2018
Collection Time: 12:56 PM
Collected By: LESIEWICZ

Lab Number: **01-18-00371**
Submission Date: 1/25/2018
Sample ID: **ZA00371**
Sample Type: TESTWELL

Source: WR-1 (10-15), Weeks Rd., Deer Park, Deer Park Pond

TC:1.5°C (0-6 Acceptable)
FCR:Not Provided

CHLORINATED PESTICIDE ANALYSIS of POTABLE WATER - EPA Method 505

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0207	Alpha - BHC	< 0.2	ppb	C0218	4,4 DDE	< 0.2	ppb
C0208	Beta - BHC	< 0.2	ppb	C0217	4,4 DDD	< 0.2	ppb
C0211	Gamma - BHC[a]	< 0.02	ppb	C0220	4,4 DDT	< 0.2	ppb
C0209	Delta - BHC	< 0.2	ppb	C0210	Endrin[a]	< 0.01	ppb
C0221	Heptachlor[a]	< 0.04	ppb	C0222	Heptachlor epoxide[a]	< 0.02	ppb
C0215	Chlordane[a]	< 0.2	ppb	C0214	Aldrin[a]	< 0.2	ppb
C0226	Alachlor[a]	< 0.2	ppb	C0216	Dieldrin[a]	< 0.2	ppb
C0212	Methoxychlor[a]	< 0.1	ppb	C0230	Endosulfan I	< 0.2	ppb
C0231	Endosulfan II	< 0.2	ppb	C0536	Dacthal	< 0.2	ppb
C0232	Endosulfan Sulfate	< 0.2	ppb				

19 Components

Analyst: AW

Date Analyzed: 1/26/2018
Date Reviewed 2/2/18 ak

MICROEXTRACTABLE ANALYSIS of POTABLE WATEI
EPA Method 504.1

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0293	1,2-dibromoethane[a]	< 0.01	ppb	C0608	1,2-dibromo-3-chloropropane[a]	< 0.02	ppb

Analyst: AW

Date Analyzed: 1/27/2018
Date Reviewed 2/2/18 ak

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
Comments:

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Report Date: 2/20/2018

Field#: 040 -886-180125
Date Collected: 01/25/18
Time Collected: 11:59
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports)

WR-1 (30-35)
Weeks Rd, Deer Park
Deer Park Pond

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☑ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☑ Well ☐ Other _____
Temperature Control (°C) 1.5 ☐ Flamed Tap

☑ **Volatile Organics**	☑ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☑ **Metals** (Filtered / Soluble)
☑ **Chlorinated Pesticides**	☑ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☑ **Microextractibles**	☑ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☑ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☑ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☑ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☑ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: 6.27 Field Conductivity(uS): 285.3 Field Chlorine Residual (mg/L): _____ #Containers: 14
Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	9.45	**STATION NAME**	
FIELD TURBIDITY	3.45	TASK / PROJECT #	
FIELD D.O.	1.00	WELL DIAMETER (in)	2
FIELD TEMP. (°C)	18.0	WELL DEPTH (ft)	40
FIELD pH	6.27	**SCREEN TOP (ft)**	30
FIELD COND.	285.3	**SCREEN BOTTOM (ft)**	35
FIELD ORP	145	SUMP LENGTH (ft)	5
SUBMERSIBLE (GPM)	1.1	MONITORING WELL / PROFILE #	5
PERISTALTIC / WATERRA / SURFACE		TOTAL PURGED (Gallons)	18.7

COMMENTS:

GPS COORDINATES - NORTH 40 ° 74 1438 **WEST** 073 307444

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: 040-886-180125
Collection Date: 1/25/2018
Collection Time: 11:59:00 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00372**
Submission Date: 1/25/2018
Sample ID: ZA00372
Sample Type: TESTWELL
TC: 1.5°C (0-6 Acceptable)

Source: WR-1 (30-35), Weeks Rd., Deer Park, Deer Park Pond

VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 524.2

DB#	Analyte	Result		DB#	Analyte	Result		DB#	Analyte	Result	
C0615	Chlorodifluoromethane	< 0.5	ppb	C0307	1,1-Dichloroethene[a]	< 0.5	ppb	C0436	Dichlorodifluoromethane[a]	< 0.5	ppb
C0302	Bromodichloromethane[a]	< 0.5	ppb	C0419	1,3,5-Trimethylbenzene[a]	< 0.5	ppb	C0612	Chloroethane[a]	< 0.5	ppb
C0406	2,3-Dichloropropene	< 0.5	ppb	C0418	1,2,4-Trimethylbenzene[a]	< 0.5	ppb	C0611	Bromomethane[a]	< 0.5	ppb
C0407	cis-1,3-Dichloropropene[a]	< 0.5	ppb	C0610	Chloromethane[a]	< 0.5	ppb	C0408	trans-1,3-Dichloropropene[a]	< 0.5	ppb
C0412	1,2-Dichlorobenzene (o)[a]	< 0.5	ppb	C0439	Trichlorofluoromethane[a]	< 0.5	ppb	C0322	1,1,2-Trichloroethane[a]	< 0.5	ppb
C0462	1,3-Dichlorobenzene (m)[a]	< 0.5	ppb	C0306	Vinyl chloride[a]	< 0.5	ppb	C0409	1,1,1,2-Tetrachloroethane[a]	< 0.5	ppb
C0463	1,4-Dichlorobenzene (p)[a]	< 0.5	ppb	C0432	p-Diethylbenzene	< 0.5	ppb	C0305	Methylene chloride[a]	< 0.5	ppb
C0295	1,1,2,2-Tetrachloroethane[a]	< 0.5	ppb	C0435	1,2,4,5-Tetramethylbenzene	< 0.5	ppb	C0323	1,1-Dichloroethane[a]	< 0.5	ppb
C0433	1,2,3-Trichloropropane[a]	< 0.5	ppb	C0437	1,2,4-Trichlorobenzene[a]	< 0.5	ppb	C0309	trans-1,2-Dichloroethene[a]	< 0.5	ppb
C0450	2,2-Dichloropropane[a]	< 0.5	ppb	C0438	1,2,3-Trichlorobenzene[a]	< 0.5	ppb	C0300	Chloroform[a]	< 0.5	ppb
C0451	1,3-Dichloropropane[a]	< 0.5	ppb	C0600	Ethenylbenzene (Styrene)[a]	< 0.5	ppb	C0324	1,2-Dichloroethane[a]	< 0.5	ppb
C0290	Bromochloromethane[a]	< 0.5	ppb	C0601	Isopropylbenzene[a]	< 0.5	ppb	C0321	1,1,1-Trichloroethane[a]	< 0.5	ppb
C0602	n-Propylbenzene[a]	< 0.5	ppb	C0304	Carbon tetrachloride[a]	< 0.5	ppb	C0603	tert-Butylbenzene[a]	< 0.5	ppb
C0294	1-Bromo-2-chloroethane	< 0.5	ppb	C0250	Benzene[a]	< 0.5	ppb	C0604	sec-Butylbenzene[a]	< 0.5	ppb
C0405	1,2-Dichloropropane[a]	< 0.5	ppb	C0251	Toluene[a]	< 0.5	ppb	C0605	p-Isopropyltoluene[a]	< 0.5	ppb
C0310	Trichloroethene[a]	< 0.5	ppb	C0258	Chlorobenzene[a]	< 0.5	ppb	C0606	n-Butylbenzene[a]	< 0.5	ppb
C0701	Naphthalene[a]	< 0.5	ppb	C0303	Chlorodibromomethane[a]	< 0.5	ppb	C0259	Ethylbenzene[a]	< 0.5	ppb
C0607	Hexachlorobutadiene[a]	< 0.5	ppb	C0420	2-Bromo-1-chloropropane	< 0.5	ppb	C0254	o-Xylene	< 0.5	ppb
C0614	Methyl-tertiary-butyl-ether[a]	< 0.5	ppb	C0301	Bromoform[a]	< 0.5	ppb	C0260	m,p-Xylene	< 0.5	ppb
C0311	Tetrachloroethene[a]	< 0.5	ppb	C0255	Total Xylene[a]	< 0.5	ppb	C0059	1,4-Dichlorobutane	< 0.5	ppb
C0308	cis-1,2-Dichloroethene[a]	< 0.5	ppb	C0620	Methyl sulfide	< 0.5	ppb	C0320	Freon 113	< 0.5	ppb
C0266	2-Chlorotoluene[a]	< 0.5	ppb	C0058	Dimethyldisulfide	< 0.5	ppb	C0292	Dibromomethane[a]	< 0.5	ppb
C0257	Bromobenzene[a]	< 0.5	ppb	C0613	1,1-Dichloropropene[a]	< 0.5	ppb	C0268	4-Chlorotoluene[a]	< 0.5	ppb
C0619	2-Butanone (MEK)	< 20.	ppb	C0465	Methyl isothiocyanate	< 2.	ppb	C0453	Diethyl ether	< 0.5	ppb
C0621	Tetrahydrofuran	< 20.	ppb	C0456	Acrylonitrile	< 0.5	ppb	C0458	Methylmethacrylate	< 0.5	ppb
C0469	Ethylmethacrylate	< 0.5	ppb	C0467	Methacrylonitrile	< 0.5	ppb	C0460	d-Limonene	< 0.5	ppb
C0622	Propanal	< 15.	ppb	C0721	Isobutane	< 2.	ppb	C0722	n-Butane	< 2.	ppb
C0455	Carbon disulfide	< 0.5	ppb	C0466	Allyl chloride	< 0.5	ppb	83 Components			

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Comments:

Reviewed By: RF Analyst(s): JC
Date Analyzed: 1/25/2018 Report Date: 1/30/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **040-886-180125**
Collection Date: 1/25/2018
Collection Time: 11:59 AM
Collected By: LESIEWICZ

Lab Number: **01-18-00372**
Submission Date: 1/25/2018
Sample ID: ZA00372
Sample Type: TESTWELL

Source: WR-1 (30-35), Weeks Rd., Deer Park, Deer Park Pond

TC:1.5°C (0-6 Acceptable)
FCR:Not Provided

CHLORINATED PESTICIDE ANALYSIS of POTABLE WATER - EPA Method 505

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0207	Alpha - BHC	< 0.2	ppb	C0218	4,4 DDE	< 0.2	ppb
C0208	Beta - BHC	< 0.2	ppb	C0217	4,4 DDD	< 0.2	ppb
C0211	Gamma - BHC[a]	< 0.02	ppb	C0220	4,4 DDT	< 0.2	ppb
C0209	Delta - BHC	< 0.2	ppb	C0210	Endrin[a]	< 0.01	ppb
C0221	Heptachlor[a]	< 0.04	ppb	C0222	Heptachlor epoxide[a]	< 0.02	ppb
C0215	Chlordane[a]	< 0.2	ppb	C0214	Aldrin[a]	< 0.2	ppb
C0226	Alachlor[a]	< 0.2	ppb	C0216	Dieldrin[a]	< 0.2	ppb
C0212	Methoxychlor[a]	< 0.1	ppb	C0230	Endosulfan I	< 0.2	ppb
C0231	Endosulfan II	< 0.2	ppb	C0536	Dacthal	< 0.2	ppb
C0232	Endosulfan Sulfate	< 0.2	ppb				

19 Components

Date Analyzed: 1/26/2018

Analyst: AW

Date Reviewed 2/2/18 ck

MICROEXTRACTABLE ANALYSIS of POTABLE WATEI
EPA Method 504.1

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0293	1,2-dibromoethane[a]	< 0.01	ppb	C0608	1,2-dibromo-3-chloropropane[a]	< 0.02	ppb

Analyst: AW

Date Analyzed: 1/27/2018

Date Reviewed 2/2/18 ck

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
Comments:

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Report Date: 2/20/2018

Field#: 060-886-180125
Date Collected: 01/25/18
Time Collected: 11:31
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports)

WR-1 (50-55)
Weeks Rd, Deer Park
Deer Park Pol2

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☑ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☑ Well ☐ Other _____
Temperature Control (°C) 1.5 ☐ Flamed Tap

☑ **Volatile Organics**	☑ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☑ **Metals** (Filtered / Soluble)
☑ **Chlorinated Pesticides**	☑ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☑ **Microextractibles**	☑ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☑ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☑ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☑ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☑ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: 6.06 Field Conductivity(uS): 329.0 Field Chlorine Residual (mg/L): _____ #Containers: 14
Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	9.45	**STATION NAME**	
FIELD TURBIDITY	1.01	TASK / PROJECT #	
FIELD D.O.	1.09	WELL DIAMETER (in)	2
FIELD TEMP. (°C)	16.4	WELL DEPTH (ft)	60
FIELD pH	6.06	**SCREEN TOP (ft)**	50
FIELD COND.	329.0	**SCREEN BOTTOM (ft)**	55
FIELD ORP	153	SUMP LENGTH (ft)	5
SUBMERSIBLE (GPM)	1.1	MONITORING WELL / PROFILE #	4
PERISTALTIC / WATERRA / SURFACE		TOTAL PURGED (Gallons)	36.3

COMMENTS:

GPS COORDINATES - NORTH 40.741438 **WEST** 073.307449

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: 060-886-180125
Collection Date: 1/25/2018
Collection Time: 11:31:00 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00373**
Submission Date: 1/25/2018
Sample ID: ZA00373
Sample Type: TESTWELL
TC: 1.5°C (0-6 Acceptable)

Source: WR-1 (50-55), Weeks Rd., Deer Park, Deer Park Pond

VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 524.2

DB#	Analyte	Result		DB#	Analyte	Result		DB#	Analyte	Result	
C0615	Chlorodifluoromethane	< 0.5	ppb	C0307	1,1-Dichloroethene[a]	< 0.5	ppb	C0436	Dichlorodifluoromethane[a]	< 0.5	ppb
C0302	Bromodichloromethane[a]	< 0.5	ppb	C0419	1,3,5-Trimethylbenzene[a]	< 0.5	ppb	C0612	Chloroethane[a]	< 0.5	ppb
C0406	2,3-Dichloropropene	< 0.5	ppb	C0418	1,2,4-Trimethylbenzene[a]	< 0.5	ppb	C0611	Bromomethane[a]	< 0.5	ppb
C0407	cis-1,3-Dichloropropene[a]	< 0.5	ppb	C0610	Chloromethane[a]	< 0.5	ppb	C0408	trans-1,3-Dichloropropene[a]	< 0.5	ppb
C0412	1,2-Dichlorobenzene (o)[a]	< 0.5	ppb	C0439	Trichlorofluoromethane[a]	< 0.5	ppb	C0322	1,1,2-Trichloroethane[a]	< 0.5	ppb
C0462	1,3-Dichlorobenzene (m)[a]	< 0.5	ppb	C0306	Vinyl chloride[a]	< 0.5	ppb	C0409	1,1,1,2-Tetrachloroethane[a]	< 0.5	ppb
C0463	1,4-Dichlorobenzene (p)[a]	< 0.5	ppb	C0432	p-Diethylbenzene	< 0.5	ppb	C0305	Methylene chloride[a]	< 0.5	ppb
C0295	1,1,2,2-Tetrachloroethane[a]	< 0.5	ppb	C0435	1,2,4,5-Tetramethylbenzene	< 0.5	ppb	C0323	1,1-Dichloroethane[a]	< 0.5	ppb
C0433	1,2,3-Trichloropropane[a]	< 0.5	ppb	C0437	1,2,4-Trichlorobenzene[a]	< 0.5	ppb	C0309	trans-1,2-Dichloroethene[a]	< 0.5	ppb
C0450	2,2-Dichloropropane[a]	< 0.5	ppb	C0438	1,2,3-Trichlorobenzene[a]	< 0.5	ppb	C0300	Chloroform[a]	< 0.5	ppb
C0451	1,3-Dichloropropane[a]	< 0.5	ppb	C0600	Ethenylbenzene (Styrene)[a]	< 0.5	ppb	C0324	1,2-Dichloroethane[a]	< 0.5	ppb
C0290	Bromochloromethane[a]	< 0.5	ppb	C0601	Isopropylbenzene[a]	< 0.5	ppb	C0321	1,1,1-Trichloroethane[a]	< 0.5	ppb
C0602	n-Propylbenzene[a]	< 0.5	ppb	C0304	Carbon tetrachloride[a]	< 0.5	ppb	C0603	tert-Butylbenzene[a]	< 0.5	ppb
C0294	1-Bromo-2-chloroethane	< 0.5	ppb	C0250	Benzene[a]	< 0.5	ppb	C0604	sec-Butylbenzene[a]	< 0.5	ppb
C0405	1,2-Dichloropropane[a]	< 0.5	ppb	C0251	Toluene[a]	< 0.5	ppb	C0605	p-Isopropyltoluene[a]	< 0.5	ppb
C0310	Trichloroethene[a]	< 0.5	ppb	C0258	Chlorobenzene[a]	< 0.5	ppb	C0606	n-Butylbenzene[a]	< 0.5	ppb
C0701	Naphthalene[a]	< 0.5	ppb	C0303	Chlorodibromomethane[a]	< 0.5	ppb	C0259	Ethylbenzene[a]	< 0.5	ppb
C0607	Hexachlorobutadiene[a]	< 0.5	ppb	C0420	2-Bromo-1-chloropropane	< 0.5	ppb	C0254	o-Xylene	< 0.5	ppb
C0614	Methyl-tertiary-butyl-ether[a]	< 0.5	ppb	C0301	Bromoform[a]	< 0.5	ppb	C0260	m,p-Xylene	< 0.5	ppb
C0311	Tetrachloroethene[a]	< 0.5	ppb	C0255	Total Xylene[a]	< 0.5	ppb	C0059	1,4-Dichlorobutane	< 0.5	ppb
C0308	cis-1,2-Dichloroethene[a]	< 0.5	ppb	C0620	Methyl sulfide	< 0.5	ppb	C0320	Freon 113	< 0.5	ppb
C0266	2-Chlorotoluene[a]	< 0.5	ppb	C0058	Dimethyldisulfide	< 0.5	ppb	C0292	Dibromomethane[a]	< 0.5	ppb
C0257	Bromobenzene[a]	< 0.5	ppb	C0613	1,1-Dichloropropene[a]	< 0.5	ppb	C0268	4-Chlorotoluene[a]	< 0.5	ppb
C0619	2-Butanone (MEK)	< 20.	ppb	C0465	Methyl isothiocyanate	< 2.	ppb	C0453	Diethyl ether	< 0.5	ppb
C0621	Tetrahydrofuran	< 20.	ppb	C0456	Acrylonitrile	< 0.5	ppb	C0458	Methylmethacrylate	< 0.5	ppb
C0469	Ethylmethacrylate	< 0.5	ppb	C0467	Methacrylonitrile	< 0.5	ppb	C0460	d-Limonene	< 0.5	ppb
C0622	Propanal	< 15.	ppb	C0721	Isobutane	< 2.	ppb	C0722	n-Butane	< 2.	ppb
C0455	Carbon disulfide	< 0.5	ppb	C0466	Allyl chloride	< 0.5	ppb	83 Components			

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Comments:

Reviewed By: RT Analyst(s): JC
Date Analyzed: 1/25/2018 Report Date: 1/30/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **060-886-180125**
Collection Date: 1/25/2018
Collection Time: 11:31 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00373**
Submission Date: 1/25/2018
Sample ID: **ZA00373**
Sample Type: TESTWELL
TC: 1.5°C (0-6 Acceptable)

Source: WR-1 (50-55), Weeks Rd., Deer Park, Deer Park Pond

pH adjusted in the lab (field adjustment required).
Dechlorination agent added in the lab (field addition required).

SEMI-VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 525.2

DB#	Analyte	Result (ppb)	Internal Std #
C0857	1-Methylnaphthalene	< 0.2	1
C0858	2-Methylnaphthalene	< 0.2	1
C0702	Acenaphthene	< 0.2	1
C0716	Acenaphthylene	< 0.2	1
C0808	Acetochlor	< 0.2	2
C0226	Alachlor[a]	< 0.2	2
C0837	Allethrin	< 0.2	2
C0705	Anthracene	< 0.5	2
C0055	Atrazine[a]	< 0.1	2
C0834	Azoxystrobin	< 0.2	3
C0815	Benfluralin	< 0.5	1
C0708	Benzo(a)anthracene	< 0.5	3
C0710	Benzo(b)fluoranthene	< 0.2	3
C0714	Benzo(ghi)perylene	< 0.2	3
C0711	Benzo(k)fluoranthene	< 0.2	3
C0712	Benzo(a)pyrene[a]	< 0.02	3
C0718	Benzophenone	< 0.2	1
C0846	Benzyl butyl phthalate	< 0.2	3
C0049	bis(2-ethylhexyl) adipate[a]	< 0.5	3
C0048	bis(2-ethylhexyl) phthalate*[a]	< 3.	3
C0855	Bisphenol A	< 0.5	3
C0826	Bloc	< 0.2	3
C0041	Bromacil	< 0.5	2
C0050	Butachlor[a]	< 0.2	3
C0851	Butylated Hydroxyanisole	NR	1
C0852	Butylated Hydroxytoluene	NR	1
C0853	Carbamazepine	< 0.5	3
C0854	Carbazole	< 0.2	2
C0849	Carisoprodol	< 0.5	2
C0215	Chlordane[a]	< 0.2	3
C0720	Chlorofenvinphos	< 0.2	2
C0847	Chloroxylenol	< 0.2	1
C0806	Chlorpyriphos	< 0.2	2
C0709	Chrysene	< 0.2	3
C0814	Cyfluthrin	< 0.2	1
C0839	Cypermethrin	< 0.5	3
C0536	Dacthal	< 0.2	2
C0840	Deltamethrin	< 0.5	3
C0713	Dibenzo(a,h)anthracene	< 0.2	3
C0401	Dibutyl phthalate	< 1.	2
C0827	Dichlobenil	< 0.2	1
C0841	Dichlorvos	< 0.5	1
C0216	Dieldrin[a]	< 0.2	2
C0845	Diethyl phthalate	< 1.	1
C0717	Diethyltoluamide (DEET)	< 0.2	1
C0844	Dimethyl phthalate	< 0.2	1
C0400	Dioctyl phthalate	< 0.2	3
C0823	Disulfoton sulfone	< 0.2	3
C0232	Endosulfan sulfate	< 0.2	2
C0820	EPTC	< 0.2	1
C0804	Ethofumesate	< 0.2	2
C0832	Ethyl parathion	< 0.2	2
C0706	Fluoranthene	< 0.2	2
C0703	Fluorene	< 0.2	1
C0057	Hexachlorobenzene[a]	< 0.1	1
C0047	Hexachlorocyclopentadiene[a]	< 0.1	1
C0471	Hexachloroethane	< 1.	1
C0856	Hexazinone	< 1.	3
C0715	Indeno(1,2,3-cd)pyrene	< 0.2	3
C0818	Iodofenphos	< 0.2	3
C0813	Iprodione	< 0.5	3
C0807	Isofenphos	< 0.5	2
C0825	Kelthane	< 0.5	3
C0805	Malathion	< 0.5	2
C0031	Metalaxyl	< 0.2	2
C0828	Methoprene	< 0.2	2
C0212	Methoxychlor[a]	< 0.1	3
C0833	Methyl parathion	< 0.2	2
C0052	Metolachlor[a]	< 0.2	2
C0842	Naled (Dibrom)	< 0.5	1
C0824	Napropamide	< 0.2	3
C0812	Pendimethalin	< 0.2	2
C0801	Pentachlorobenzene	< 0.2	1
C0810	Pentachloronitrobenzene	< 0.2	2
C0819	Permethrin	< 0.2	3
C0704	Phenanthrene	< 0.2	2
C0831	Piperonyl butoxide	< 0.5	3
C0035	Prometon	< 0.5	2
C0843	Prometryne	< 0.2	2
C0040	Propachlor[a]	< 0.2	1
C0836	Propiconazole (TILT)	< 0.2	3
C0707	Pyrene	< 0.5	3
C0829	Resmethrin	< 0.2	3
C0859	Ronstar	< 0.2	3
C0056	Simazine[a]	< 0.07	2
C0830	Sumithrin	< 0.2	3
C0802	Tebuthiuron	< 0.5	1
C0822	Terbacil	< 0.5	2
C0817	Triadimefon	< 0.5	2
C0850	Triclosan	< 0.5	2
C0809	Trifluralin[a]	< 0.5	1
C0811	Vinclozolin	< 0.5	2
C0726	Etofenprox	< 0.2	3
C0727	Etofenprox alpha-CO	< 0.2	3
C0000	Prallethrin	< 0.2	2

95 Components
NR=Not Reportable
Prometon unstable in acid.
*ELAP RDL cannot be achieved due to lab interference.

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Analyst(s): TB CW Date extracted: 1/31/18 Date analyzed: 2/16/2018 Reviewed By: CK

Naled MRL raised to 0.5 due to instrument sensitivity issues. Resmethrin does not meet acceptable criteria in the QC standard. Benzo(a)pyrene does not meet acceptable criteria in the LFB. -CN

Comments:

Report Date: 2/21/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **060-886-180125**
Collection Date: 1/25/2018
Collection Time: 11:31 AM
Collected By: LESIEWICZ

Lab Number: **01-18-00373**
Submission Date: 1/25/2018
Sample ID: **ZA00373**
Sample Type: TESTWELL

Source: WR-1 (50-55), Weeks Rd., Deer Park, Deer Park Pond

TC:1.5°C (0-6 Acceptable)
FCR:Not Provided

CHLORINATED PESTICIDE ANALYSIS of POTABLE WATER - EPA Method 505

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0207	Alpha - BHC	< 0.2	ppb	C0218	4,4 DDE	< 0.2	ppb
C0208	Beta - BHC	< 0.2	ppb	C0217	4,4 DDD	< 0.2	ppb
C0211	Gamma - BHC[a]	< 0.02	ppb	C0220	4,4 DDT	< 0.2	ppb
C0209	Delta - BHC	< 0.2	ppb	C0210	Endrin[a]	< 0.01	ppb
C0221	Heptachlor[a]	< 0.04	ppb	C0222	Heptachlor epoxide[a]	< 0.02	ppb
C0215	Chlordane[a]	< 0.2	ppb	C0214	Aldrin[a]	< 0.2	ppb
C0226	Alachlor[a]	< 0.2	ppb	C0216	Dieldrin[a]	< 0.2	ppb
C0212	Methoxychlor[a]	< 0.1	ppb	C0230	Endosulfan I	< 0.2	ppb
C0231	Endosulfan II	< 0.2	ppb	C0536	Dacthal	< 0.2	ppb
C0232	Endosulfan Sulfate	< 0.2	ppb				

19 Components

Analyst: AW

Date Analyzed: 1/26/2018

Date Reviewed 2/2/18 ck

MICROEXTRACTABLE ANALYSIS of POTABLE WATEI
EPA Method 504.1

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0293	1,2-dibromoethane[a]	< 0.01	ppb	C0608	1,2-dibromo-3-chloropropane[a]	< 0.02	ppb

Analyst: AW

Date Analyzed: 1/27/2018

Date Reviewed 2/2/18 ck

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
Comments:

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Report Date: 2/20/2018

Field#: 080 -886-18 0125
Date Collected: 01/25/18
Time Collected: 10:46
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports)

WR-1 (70-75)
Weeks Rd, Deer Park
Deer Park Pond

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☑ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☑ Well ☐ Other _____
Temperature Control (°C) 1.5 ☐ Flamed Tap

☑ **Volatile Organics**	☑ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☑ **Metals** (Filtered / Soluble)
☑ **Chlorinated Pesticides**	☑ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☑ **Microextractibles**	☑ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☑ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☑ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☑ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☑ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: 5.44 Field Conductivity(uS): 268.2 Field Chlorine Residual (mg/L): _____ #Containers: 14
Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	9.45	**STATION NAME**	
FIELD TURBIDITY	5.75	TASK / PROJECT #	
FIELD D.O.	.84	WELL DIAMETER (in)	2
FIELD TEMP. (°C)	15.7	WELL DEPTH (ft)	86
FIELD pH	5.44	**SCREEN TOP (ft)**	76
FIELD COND.	268.2	**SCREEN BOTTOM (ft)**	75
FIELD ORP	173	SUMP LENGTH (ft)	5
SUBMERSIBLE (GPM)	1.1	MONITORING WELL / PROFILE #	3
PERISTALTIC / WATERRA / SURFACE		TOTAL PURGED (Gallons)	38.5

COMMENTS:

GPS COORDINATES - NORTH 40.741434 **WEST** 073.307444

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: 080-886-180125
Collection Date: 1/25/2018
Collection Time: 10:46:00 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided
Source: WR-1 (70-75), Weeks Rd., Deer Park, Deer Park Pond

Lab Number: **01-18-00374**
Submission Date: 1/25/2018
Sample ID: ZA00374
Sample Type: TESTWELL
TC: 1.5°C (0-6 Acceptable)

VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 524.2

DB#	Analyte	Result		DB#	Analyte	Result		DB#	Analyte	Result	
C0615	Chlorodifluoromethane	< 0.5	ppb	C0307	1,1-Dichloroethene[a]	< 0.5	ppb	C0436	Dichlorodifluoromethane[a]	< 0.5	ppb
C0302	Bromodichloromethane[a]	< 0.5	ppb	C0419	1,3,5-Trimethylbenzene[a]	< 0.5	ppb	C0612	Chloroethane[a]	< 0.5	ppb
C0406	2,3-Dichloropropene	< 0.5	ppb	C0418	1,2,4-Trimethylbenzene[a]	< 0.5	ppb	C0611	Bromomethane[a]	< 0.5	ppb
C0407	cis-1,3-Dichloropropene[a]	< 0.5	ppb	C0610	Chloromethane[a]	< 0.5	ppb	C0408	trans-1,3-Dichloropropene[a]	< 0.5	ppb
C0412	1,2-Dichlorobenzene (o)[a]	< 0.5	ppb	C0439	Trichlorofluoromethane[a]	< 0.5	ppb	C0322	1,1,2-Trichloroethane[a]	< 0.5	ppb
C0462	1,3-Dichlorobenzene (m)[a]	< 0.5	ppb	C0306	Vinyl chloride[a]	< 0.5	ppb	C0409	1,1,1,2-Tetrachloroethane[a]	< 0.5	ppb
C0463	1,4-Dichlorobenzene (p)[a]	< 0.5	ppb	C0432	p-Diethylbenzene	< 0.5	ppb	C0305	Methylene chloride[a]	< 0.5	ppb
C0295	1,1,2,2-Tetrachloroethane[a]	< 0.5	ppb	C0435	1,2,4,5-Tetramethylbenzene	< 0.5	ppb	C0323	1,1-Dichloroethane[a]	< 0.5	ppb
C0433	1,2,3-Trichloropropane[a]	< 0.5	ppb	C0437	1,2,4-Trichlorobenzene[a]	< 0.5	ppb	C0309	trans-1,2-Dichloroethene[a]	< 0.5	ppb
C0450	2,2-Dichloropropane[a]	< 0.5	ppb	C0438	1,2,3-Trichlorobenzene[a]	< 0.5	ppb	C0300	Chloroform[a]	< 0.5	ppb
C0451	1,3-Dichloropropane[a]	< 0.5	ppb	C0600	Ethenylbenzene (Styrene)[a]	< 0.5	ppb	C0324	1,2-Dichloroethane[a]	< 0.5	ppb
C0290	Bromochloromethane[a]	< 0.5	ppb	C0601	Isopropylbenzene[a]	< 0.5	ppb	C0321	1,1,1-Trichloroethane[a]	< 0.5	ppb
C0602	n-Propylbenzene[a]	< 0.5	ppb	C0304	Carbon tetrachloride[a]	< 0.5	ppb	C0603	tert-Butylbenzene[a]	< 0.5	ppb
C0294	1-Bromo-2-chloroethane	< 0.5	ppb	C0250	Benzene[a]	< 0.5	ppb	C0604	sec-Butylbenzene[a]	< 0.5	ppb
C0405	1,2-Dichloropropane[a]	< 0.5	ppb	C0251	Toluene[a]	< 0.5	ppb	C0605	p-Isopropyltoluene[a]	< 0.5	ppb
C0310	Trichloroethene[a]	< 0.5	ppb	C0258	Chlorobenzene[a]	< 0.5	ppb	C0606	n-Butylbenzene[a]	< 0.5	ppb
C0701	Naphthalene[a]	< 0.5	ppb	C0303	Chlorodibromomethane[a]	< 0.5	ppb	C0259	Ethylbenzene[a]	< 0.5	ppb
C0607	Hexachlorobutadiene[a]	< 0.5	ppb	C0420	2-Bromo-1-chloropropane	< 0.5	ppb	C0254	o-Xylene	< 0.5	ppb
C0614	Methyl tertiary-butyl ether[a]	1.1	ppb	C0301	Bromoform[a]	< 0.5	ppb	C0260	m,p-Xylene	< 0.5	ppb
C0311	Tetrachloroethene[a]	< 0.5	ppb	C0255	Total Xylene[a]	< 0.5	ppb	C0059	1,4-Dichlorobutane	< 0.5	ppb
C0308	cis-1,2-Dichloroethene[a]	0.9	ppb	C0620	Methyl sulfide	< 0.5	ppb	C0320	Freon 113	< 0.5	ppb
C0266	2-Chlorotoluene[a]	< 0.5	ppb	C0058	Dimethyldisulfide	< 0.5	ppb	C0292	Dibromomethane[a]	< 0.5	ppb
C0257	Bromobenzene[a]	< 0.5	ppb	C0613	1,1-Dichloropropene[a]	< 0.5	ppb	C0268	4-Chlorotoluene[a]	< 0.5	ppb
C0619	2-Butanone (MEK)	< 20.	ppb	C0465	Methyl isothiocyanate	< 2.	ppb	C0453	Diethyl ether	< 0.5	ppb
C0621	Tetrahydrofuran	< 20.	ppb	C0456	Acrylonitrile	< 0.5	ppb	C0458	Methylmethacrylate	< 0.5	ppb
C0469	Ethylmethacrylate	< 0.5	ppb	C0467	Methacrylonitrile	< 0.5	ppb	C0460	d-Limonene	< 0.5	ppb
C0622	Propanal	< 15.	ppb	C0721	Isobutane	< 2.	ppb	C0722	n-Butane	< 2.	ppb
C0455	Carbon disulfide	< 0.5	ppb	C0466	Allyl chloride	< 0.5	ppb	83 Components			

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Comments:

Reviewed By: RF Analyst(s): JC
Date Analyzed: 1/25/2018 Report Date: 1/30/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **080-886-180125**
Collection Date: 1/25/2018
Collection Time: 10:46 AM
Collected By: LESIEWICZ

Lab Number: **01-18-00374**
Submission Date: 1/25/2018
Sample ID: **ZA00374**
Sample Type: TESTWELL

Source: WR-1 (70-75), Weeks Rd., Deer Park, Deer Park Pond

TC:1.5°C (0-6 Acceptable)
FCR:Not Provided

CHLORINATED PESTICIDE ANALYSIS of POTABLE WATER - EPA Method 505

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0207	Alpha - BHC	< 0.2	ppb	C0218	4,4 DDE	< 0.2	ppb
C0208	Beta - BHC	< 0.2	ppb	C0217	4,4 DDD	< 0.2	ppb
C0211	Gamma - BHC[a]	< 0.02	ppb	C0220	4,4 DDT	< 0.2	ppb
C0209	Delta - BHC	< 0.2	ppb	C0210	Endrin[a]	< 0.01	ppb
C0221	Heptachlor[a]	< 0.04	ppb	C0222	Heptachlor epoxide[a]	< 0.02	ppb
C0215	Chlordane[a]	< 0.2	ppb	C0214	Aldrin[a]	< 0.2	ppb
C0226	Alachlor[a]	< 0.2	ppb	C0216	Dieldrin[a]	< 0.2	ppb
C0212	Methoxychlor[a]	< 0.1	ppb	C0230	Endosulfan I	< 0.2	ppb
C0231	Endosulfan II	< 0.2	ppb	C0536	Dacthal	< 0.2	ppb
C0232	Endosulfan Sulfate	< 0.2	ppb				

19 Components

Analyst: AW

Date Analyzed: 1/26/2018

Date Reviewed 2/2/18 ck

MICROEXTRACTABLE ANALYSIS of POTABLE WATEI
EPA Method 504.1

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0293	1,2-dibromoethane[a]	< 0.01	ppb	C0608	1,2-dibromo-3-chloropropane[a]	< 0.02	ppb

Analyst: AW

Date Analyzed: 1/27/2018

Date Reviewed 2/2/18 ck

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
Comments:

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Report Date: 2/20/2018

Field#: 100 -886-18012-
Date Collected: 01/22/18
Time Collected: Not Collected
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports): WR-1 (90-95)

Sample not collected due to high turbidity

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☐ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☐ Well ☐ Other _____

Temperature Control (°C) _____ ☐ Flamed Tap

☐ **Volatile Organics**	☐ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☐ **Metals** (Filtered / Soluble)
☐ **Chlorinated Pesticides**	☐ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☐ **Microextractibles**	☐ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☐ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☐ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☐ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☐ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: _____ Field Conductivity(uS): _____ Field Chlorine Residual (mg/L): _____ #Containers: _____

Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	**STATION NAME**
FIELD TURBIDITY	TASK / PROJECT #
FIELD D.O.	WELL DIAMETER (in)
FIELD TEMP. (°C)	WELL DEPTH (ft)
FIELD pH	**SCREEN TOP (ft)**
FIELD COND.	**SCREEN BOTTOM (ft)**
FIELD ORP	SUMP LENGTH (ft)
SUBMERSIBLE (GPM)	MONITORING WELL / PROFILE #
PERISTALTIC / WATERRA / SURFACE	TOTAL PURGED (Gallons)

COMMENTS:

GPS COORDINATES - NORTH _____ **WEST** _____

Field#: 120-886-190122
Date Collected: 06/22/18
Time Collected: 10:57
(00:00 – 24:00)

Collected By: Lesiewicz
(Last Name)

Suffolk County Department of Health Services
Division of Environmental Quality
Public & Environmental Health Laboratory
ELAP#10528

Analysis Request Form

Source of Sample (to appear on reports)

WR-1 (110-115)
Weeks Rd, Deer Park
Deer Lake

Treatment _____ ☐ NYSDEC Pesticide Survey

Supply Type: ☐ Public Community ☐ Public Non-Community ☐ Private ☐ Bottled ☒ Test Well* ☐ Surface ☐ Sewage ☐ Industrial ☐ Other _____

Collection Point: ☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☒ Well ☐ Other _____
Temperature Control (°C) 1.3 ☐ Flamed Tap

☒ **Volatile Organics**	☒ **Semi-Volatile Organics**	☐ Colilert / E. Coli	☒ **Metals** (Filtered / Soluble)
☒ **Chlorinated Pesticides**	☒ **Herbicide Metabolites**	☐ MPN	☐ pH, Cond, Alk
☒ **Microextractibles**	☒ **Aldicarb Pesticides**	☐ SPC (Standard Plate Count)	☒ **Inorganics**[1] (NO_3,Cl, etc.)
☐ Chlorinated Acids	☒ **Dacthal**	☐ Enterococci	☐ Perchlorate
☐ Total Solids	☐ Cyanide	☐ BT (Aureococcus anophagefferens)	☐ MBAS ☐ Mercury
☐ Suspended Solids	☐ Phenols	☐ CPA-T ☐ CPA-F	☒ **Ammonia**
☐ Dissolved Solids	☐ Oil & Grease ☐ TCLP	☐ Radiology (Tritium, Gross Alpha, Gross Beta)	☐ TP ☐ DP
☐ TKN ☐ DKN	☐ Fluoride		☐ TN ☐ DN
☒ 1,4-Dioxane	☐ Hexavalent Chromium	☐ Flash Point	☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

[1]Includes Nitrate, Nitrite, ortho-Phosphate, Fluoride, Sulfate, Chloride and Bromide. Total Nitrogen for SPDES requires TKN and Inorganics.

Field pH: 5.48 Field Conductivity(uS): 273.2 Field Chlorine Residual (mg/L): _____ #Containers: 14
Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	11.26	**STATION NAME**	2018056
FIELD TURBIDITY	8.94	TASK / PROJECT #	
FIELD D.O.	1.24	WELL DIAMETER (in)	2
FIELD TEMP. (°C)	16.1	WELL DEPTH (ft)	120
FIELD pH	5.48	**SCREEN TOP (ft)**	110
FIELD COND.	273.2	**SCREEN BOTTOM (ft)**	115
FIELD ORP	177	SUMP LENGTH (ft)	5
SUBMERSIBLE (GPM)	1.1	MONITORING WELL / PROFILE #	1
PERISTALTIC / WATERRA / SURFACE		TOTAL PURGED (Gallons)	77

COMMENTS:

GPS COORDINATES - NORTH 40.741433 **WEST** 073.307386

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: 120-886-180122
Collection Date: 1/22/2018
Collection Time: 10:57:00 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00265**
Submission Date: 1/22/2018
Sample ID: ZA00265
Sample Type: TESTWELL
TC: 1.3°C (0-6 Acceptable)

Source: WR-1 (110-115) Weeks Rd, Deer Park, Deer Lake, Test well

VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 524.2

DB#	Analyte	Result		DB#	Analyte	Result		DB#	Analyte	Result	
C0615	Chlorodifluoromethane	< 0.5	ppb	C0307	1,1-Dichloroethene[a]	< 0.5	ppb	C0436	Dichlorodifluoromethane[a]	< 0.5	ppb
C0302	Bromodichloromethane[a]	< 0.5	ppb	C0419	1,3,5-Trimethylbenzene[a]	< 0.5	ppb	C0612	Chloroethane[a]	< 0.5	ppb
C0406	2,3-Dichloropropene	< 0.5	ppb	C0418	1,2,4-Trimethylbenzene[a]	< 0.5	ppb	C0611	Bromomethane[a]	< 0.5	ppb
C0407	cis-1,3-Dichloropropene[a]	< 0.5	ppb	C0610	Chloromethane[a]	< 0.5	ppb	C0408	trans-1,3-Dichloropropene[a]	< 0.5	ppb
C0412	1,2-Dichlorobenzene (o)[a]	< 0.5	ppb	C0439	Trichlorofluoromethane[a]	< 0.5	ppb	C0322	1,1,2-Trichloroethane[a]	< 0.5	ppb
C0462	1,3-Dichlorobenzene (m)[a]	< 0.5	ppb	C0306	Vinyl chloride[a]	< 0.5	ppb	C0409	1,1,1,2-Tetrachloroethane[a]	< 0.5	ppb
C0463	1,4-Dichlorobenzene (p)[a]	< 0.5	ppb	C0432	p-Diethylbenzene	< 0.5	ppb	C0305	Methylene chloride[a]	< 0.5	ppb
C0295	1,1,2,2-Tetrachloroethane[a]	< 0.5	ppb	C0435	1,2,4,5-Tetramethylbenzene	< 0.5	ppb	C0323	1,1-Dichloroethane[a]	< 0.5	ppb
C0433	1,2,3-Trichloropropane[a]	< 0.5	ppb	C0437	1,2,4-Trichlorobenzene[a]	< 0.5	ppb	C0309	trans-1,2-Dichloroethene[a]	< 0.5	ppb
C0450	2,2-Dichloropropane[a]	< 0.5	ppb	C0438	1,2,3-Trichlorobenzene[a]	< 0.5	ppb	C0300	Chloroform[a]	< 0.5	ppb
C0451	1,3-Dichloropropane[a]	< 0.5	ppb	C0600	Ethenylbenzene (Styrene)[a]	< 0.5	ppb	C0324	1,2-Dichloroethane[a]	< 0.5	ppb
C0290	Bromochloromethane[a]	< 0.5	ppb	C0601	Isopropylbenzene[a]	< 0.5	ppb	C0321	1,1,1-Trichloroethane[a]	< 0.5	ppb
C0602	n-Propylbenzene[a]	< 0.5	ppb	C0304	Carbon tetrachloride[a]	< 0.5	ppb	C0603	tert-Butylbenzene[a]	< 0.5	ppb
C0294	1-Bromo-2-chloroethane	< 0.5	ppb	C0250	Benzene[a]	< 0.5	ppb	C0604	sec-Butylbenzene[a]	< 0.5	ppb
C0405	1,2-Dichloropropane[a]	< 0.5	ppb	C0251	Toluene[a]	< 0.5	ppb	C0605	p-Isopropyltoluene[a]	< 0.5	ppb
C0610	Trichloroethene[a]	0.6	ppb	C0258	Chlorobenzene[a]	< 0.5	ppb	C0606	n-Butylbenzene[a]	< 0.5	ppb
C0701	Naphthalene[a]	< 0.5	ppb	C0303	Chlorodibromomethane[a]	< 0.5	ppb	C0259	Ethylbenzene[a]	< 0.5	ppb
C0607	Hexachlorobutadiene[a]	< 0.5	ppb	C0420	2-Bromo-1-chloropropane	< 0.5	ppb	C0254	o-Xylene	< 0.5	ppb
C0614	Methyl-tertiary-butyl-ether[a]	1.6	ppb	C0301	Bromoform[a]	< 0.5	ppb	C0260	m,p-Xylene	< 0.5	ppb
C0611	Tetrachloroethene[a]	0.6	ppb	C0255	Total Xylene[a]	< 0.5	ppb	C0059	1,4-Dichlorobutane	< 0.5	ppb
C0308	cis-1,2-Dichloroethene[a]	< 0.5	ppb	C0620	Methyl sulfide	< 0.5	ppb	C0320	Freon 113	< 0.5	ppb
C0266	2-Chlorotoluene[a]	< 0.5	ppb	C0058	Dimethyldisulfide	< 0.5	ppb	C0292	Dibromomethane[a]	< 0.5	ppb
C0257	Bromobenzene[a]	< 0.5	ppb	C0613	1,1-Dichloropropene[a]	< 0.5	ppb	C0268	4-Chlorotoluene[a]	< 0.5	ppb
C0619	2-Butanone (MEK)	< 20.	ppb	C0465	Methyl isothiocyanate	< 2.	ppb	C0453	Diethyl ether	< 0.5	ppb
C0621	Tetrahydrofuran	< 20.	ppb	C0456	Acrylonitrile	< 0.5	ppb	C0458	Methylmethacrylate	< 0.5	ppb
C0469	Ethylmethacrylate	< 0.5	ppb	C0467	Methacrylonitrile	< 0.5	ppb	C0460	d-Limonene	< 0.5	ppb
C0622	Propanal	< 15.	ppb	C0721	Isobutane	< 2.	ppb	C0722	n-Butane	< 2.	ppb
C0455	Carbon disulfide	< 0.5	ppb	C0466	Allyl chloride	< 0.5	ppb	83 Components			

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Comments:

Reviewed By: RF Analyst(s): JC
Date Analyzed: 1/23/2018 Report Date: 1/30/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **120-886-180122**
Collection Date: 1/22/2018
Collection Time: 10:57 AM
Collected By: LESIEWICZ
Field Cl Residual: Not Provided

Lab Number: **01-18-00265**
Submission Date: 1/22/2018
Sample ID: **ZA00265**
Sample Type: TESTWELL
TC: 1.3°C (0-6 Acceptable)

Source: WR-1 (110-115) Weeks Rd, Deer Park, Deer Lake, Test well

pH adjusted in the lab (field adjustment required).
Dechlorination agent added in the lab (field addition required).

SEMI-VOLATILE ORGANIC ANALYSIS of POTABLE WATER - EPA Method 525.2

DB#	Analyte	Result (ppb)	Internal Std #
C0857	1-Methylnaphthalene	< 0.2	1
C0858	2-Methylnaphthalene	< 0.2	1
C0702	Acenaphthene	< 0.2	1
C0716	Acenaphthylene	< 0.2	1
C0808	Acetochlor	< 0.2	2
C0226	Alachlor[a]	< 0.2	2
C0837	Allethrin	< 0.2	2
C0705	Anthracene	< 0.5	2
C0055	Atrazine[a]	< 0.1	2
C0834	Azoxystrobin	< 0.2	3
C0815	Benfluralin	< 0.5	1
C0708	Benzo(a)anthracene	< 0.5	3
C0710	Benzo(b)fluoranthene	< 0.2	3
C0714	Benzo(ghi)perylene	< 0.2	3
C0711	Benzo(k)fluoranthene	< 0.2	3
C0712	Benzo(a)pyrene[a]	< 0.02	3
C0718	Benzophenone	< 0.2	1
C0846	Benzyl butyl phthalate	< 0.2	3
C0049	bis(2-ethylhexyl) adipate[a]	< 0.5	3
C0048	bis(2-ethylhexyl) phthalate*[a]	< 3.	3
C0855	Bisphenol A	< 0.5	3
C0826	Bloc	< 0.2	3
C0041	Bromacil	< 0.5	2
C0050	Butachlor[a]	< 0.2	3
C0851	Butylated Hydroxyanisole	< 1.	1
C0852	Butylated Hydroxytoluene	< 0.5	1
C0853	Carbamazepine	< 0.5	3
C0854	Carbazole	< 0.2	2
C0849	Carisoprodol	< 0.5	2
C0215	Chlordane[a]	< 0.2	3
C0720	Chlorofenvinphos	< 0.2	2
C0847	Chloroxylenol	< 0.2	1
C0806	Chlorpyriphos	< 0.2	2
C0709	Chrysene	< 0.2	3
C0814	Cyfluthrin	< 0.2	1
C0839	Cypermethrin	< 0.5	3
C0536	Dacthal	< 0.2	2
C0840	Deltamethrin	< 0.5	3
C0713	Dibenzo(a,h)anthracene	< 0.2	3
C0401	Dibutyl phthalate	< 1.	2
C0827	Dichlobenil	< 0.2	1
C0841	Dichlorvos	< 0.5	1
C0216	Dieldrin[a]	< 0.2	2
C0845	Diethyl phthalate	< 1.	1
C0717	Diethyltoluamide (DEET)	trace(0.11)	1
C0844	Dimethyl phthalate	< 0.2	1
C0400	Dioctyl phthalate	< 0.2	3
C0823	Disulfoton sulfone	< 0.2	3
C0232	Endosulfan sulfate	< 0.2	2
C0820	EPTC	< 0.2	1
C0804	Ethofumesate	< 0.2	2
C0832	Ethyl parathion	< 0.2	2
C0706	Fluoranthene	< 0.2	2
C0703	Fluorene	< 0.2	1
C0057	Hexachlorobenzene[a]	< 0.1	1
C0047	Hexachlorocyclopentadiene[a]	< 0.1	1
C0471	Hexachloroethane	< 1.	1
C0856	Hexazinone	< 1.	3
C0715	Indeno(1,2,3-cd)pyrene	< 0.2	3
C0818	Iodofenphos	< 0.2	3
C0813	Iprodione	< 0.5	3
C0807	Isofenphos	< 0.5	2
C0825	Kelthane	< 0.5	3
C0805	Malathion	< 0.5	2
C0031	Metalaxyl	< 0.2	2
C0828	Methoprene	< 0.2	2
C0212	Methoxychlor[a]	< 0.1	3
C0833	Methyl parathion	< 0.2	2
C0052	Metolachlor[a]	< 0.2	2
C0842	Naled (Dibrom)	< 0.2	1
C0824	Napropamide	< 0.2	3
C0812	Pendimethalin	< 0.2	2
C0801	Pentachlorobenzene	< 0.2	1
C0810	Pentachloronitrobenzene	< 0.2	2
C0819	Permethrin	< 0.2	3
C0704	Phenanthrene	< 0.2	2
C0831	Piperonyl butoxide	< 0.5	3
C0035	Prometon	< 0.5	2
C0843	Prometryne	< 0.2	2
C0040	Propachlor[a]	< 0.2	1
C0836	Propiconazole (TILT)	< 0.2	3
C0707	Pyrene	< 0.5	3
C0829	Resmethrin	< 0.2	3
C0859	Ronstar	< 0.2	3
C0056	Simazine[a]	< 0.07	2
C0830	Sumithrin	< 0.2	3
C0802	Tebuthiuron	< 0.5	1
C0822	Terbacil	< 0.5	2
C0817	Triadimefon	< 0.5	2
C0850	Triclosan	< 0.5	2
C0809	Trifluralin[a]	< 0.5	1
C0811	Vinclozolin	< 0.5	2
C0726	Etofenprox	< 0.2	3
C0727	Etofenprox alpha-CO	< 0.2	3
C0000	Prallethrin	< 0.2	2

95 Components
NR=Not Reportable
Prometon unstable in acid.
*ELAP RDL cannot be achieved due to lab interference.

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Analyst(s): HG CK Date extracted: 1/26/18 Date analyzed: 2/8/2018 Reviewed By: CV

Acenaphthylene, Tebuthiuron, Tilt and Benzo(a)pyrene do not meet acceptable criteria in the LFB.-CK

Comments:

Report Date: 2/23/2018

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **120-886-180122**
Collection Date: 1/22/2018
Collection Time: 10:57 AM
Collected By: LESIEWICZ

Lab Number: **01-18-00265**
Submission Date: 1/22/2018
Sample ID: **ZA00265**
Sample Type: TESTWELL

Source: WR-1 (110-115) Weeks Rd, Deer Park, Deer Lake, Test well

TC:1.3°C (0-6 Acceptable)
FCR:Not Provided

CHLORINATED PESTICIDE ANALYSIS of POTABLE WATER - EPA Method 505

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0207	Alpha - BHC	NA	ppb	C0218	4,4 DDE	NA	ppb
C0208	Beta - BHC	NA	ppb	C0217	4,4 DDD	NA	ppb
C0211	Gamma - BHC[a]	NA	ppb	C0220	4,4 DDT	NA	ppb
C0209	Delta - BHC	NA	ppb	C0210	Endrin[a]	NA	ppb
C0221	Heptachlor[a]	NA	ppb	C0222	Heptachlor epoxide[a]	NA	ppb
C0215	Chlordane[a]	NA	ppb	C0214	Aldrin[a]	NA	ppb
C0226	Alachlor[a]	NA	ppb	C0216	Dieldrin[a]	NA	ppb
C0212	Methoxychlor[a]	NA	ppb	C0230	Endosulfan I	NA	ppb
C0231	Endosulfan II	NA	ppb	C0536	Dacthal	NA	ppb
C0232	Endosulfan Sulfate	NA	ppb				

19 Components

Date Analyzed: 1/22/2018

Analyst: AW Date Reviewed 2/2/18 aw jk

Unable to extract due to frozen, cracked vials. AW

MICROEXTRACTABLE ANALYSIS of POTABLE WATER
EPA Method 504.1

DB#	Analyte	Result	Units	DB#	Analyte	Result	Units
C0293	1,2-dibromoethane[a]	NA	ppb	C0608	1,2-dibromo-3-chloropropane[a]	NA	ppb

Unable to extract due to frozen, cracked vials. AW

Analyst: AW Date Analyzed: 1/22/2018

Date Reviewed 2/2/18 aw jk

[a]-Analyte covered under ELAP accreditation for potable water, otherwise accreditation is not offered for this category.
Comments:

The lab is only responsible for the certified testing, and not for the integrity of the sample before laboratory receipt.

Report Date: 2/20/2018

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Name of Action or Project:
Rehabilitation of Deer Lake

Project Location (describe, and attach a location map):
Deer Lake, Towns of Babylon and Islip

Brief Description of Proposed Action:
The Suffolk County Department of Public Works (SCDPW) is seeking to rehabilitate Deer Lake; an artificial, privately-owned lake. Deer Lake has a documented history of low water levels during drought seasons, which impact the health and function of the lake. The intent of the project is to install a groundwater supply well and pump to raise and then maintain the lake water level. The well will be located at an upstream property owned by the County along Weeks Road. Pump operation will be controlled by a water level sensor system that will relay the water level at the south end of the lake to the pump via cellular or internet connection. The SCDPW plans to purchase an undeveloped lot at the south end of Deer Lake to provide a recreational access point for the public and will allow for funding to restore and maintain the lake. The lot is located on Kime Avenue and is planned to be developed with an ADA-accessible fishing pier, sidewalk and two (2) on-street parking spaces. The lake is to be stocked with fish following the restoration of the lake. Wetland vegetation disturbed at both properties will be restored.

Name of Applicant or Sponsor:	Telephone: 631-852-4692
Suffolk County Department of Public Works (SCDPW)	E-Mail: Paul.Clinton@suffolkcountyny.gov

Address:
335 Yaphank Avenue

City/PO:	State:	Zip Code:
Yaphank	NY	11980

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: NYSDEC-Freshwater Wetlands Permit, Long Island Well Permit, Well Engineering Report (if required by NYSDEC). Town of Islip-Variance for onstreet parking spots.	☐	☑

3.a. Total acreage of the site of the proposed action? 21.0 acres
b. Total acreage to be physically disturbed? 0.46 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 1.50 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

	NO	YES	N/A
5. Is the proposed action, a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	☐	☑	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	☑	☐	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	☑	☐	
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:	NO	YES	
	☑	☐	
10. Will the proposed action connect to an existing public/private water supply?	NO	YES	
If No, describe method for providing potable water: _____	☑	☐	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES	
If No, describe method for providing wastewater treatment: _____	☑	☐	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	NO	YES	
	☑	☐	
b. Is the proposed action located in an archeological sensitive area?	☐	☐	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
	☐	☑	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☐	☑	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____			
The water body is known as Deer Lake. The project plans to restore the function and health of the lake by raising and then maintaining water levels with a groundwater supply well. Groundwater will be drawn upstream at the well and will be discharged at an outfall structure into Swampawams Creek. Swampawams Creek runs south and feeds into Deer Lake.			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional
☑ Wetland ☐ Urban ☑ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100 year flood plain?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☐ NO ☐ YES	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☐ YES		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: The purpose of the project is to restore a lake with groundwater. An existing weir owned the County is located at the south end of the lake that maintains the lake's water level.	☐	☑
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: The Weeks Road property owned by the County (site of the proposed groundwater supply well/pump) is adjacent to a former gas-spill remediation site (NYSDEC Spill #85-03490).	☐	☑

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: PAUL J CLINTON /DPW Date: 10/30/17

Signature:

PRINT FORM

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 2 – Impact Assessment (To be completed by Lead Agency)

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	☒	☐
2. Will the proposed action result in a change in the use or intensity of use of land?	☒	☐
3. Will the proposed action impair the character or quality of the existing community?	☒	☐
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	☒	☐
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	☒	☐
6. Will the proposed action cause an increase in the use of energy and fail to incorporate reasonably available energy conservation or renewable energy opportunities?	☒	☐
7. Will the proposed action impact existing public/private water supplies?	☒	☐
8. Will the proposed action impact existing public/private wastewater treatment utilities?	☒	☐
9. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	☒	☐
10. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	☒	☐
11. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	☒	☐
12. Will the proposed action create a hazard to environmental resources or human health?	☒	☐

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
6 NYCRR Part 617
State Environmental Quality Review

Part 3 – Determination of Significance
The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts. Attach additional pages as necessary.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required. (Positive Declaration)

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation that the proposed action will not result in any significant adverse environmental impacts. (Negative Declaration)

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PWGC
Strategic Environmental Engineering Solutions

Planning and Design of the Rehabilitation of Deer Lake in the Towns of Babylon and Islip (CP 8716) – Draft Report

Suffolk County Department of Public Works

July 2016

P.W. GROSSER CONSULTING, INC. • P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
630 Johnson Avenue, Suite 7 • Bohemia, NY 11716
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New York, NY • Syracuse, NY • Seattle, NY • Shelton, CT

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APPENDICES

ACRONYMNS

ADA	Americans with Disabilities Act of 1990
bgs	Below Ground Surface
DLHO	Deer Lake Homeowners Association
GPM	Gallons Per Minute
NEMA	National Electrical Manufacturers Association
NYSDEC	New York State Department of Environmental Conservation
PLC	Programmable Logic Controller
PWGC	P.W. Grosser Consulting, Inc.
SCDPW	Suffolk County Department of Public Works
SNMP	Simple Network Management Protocol

EXECUTIVE SUMMARY

The Suffolk County Department of Public Works (SCDPW) is seeking to rehabilitate Deer Lake, an artificial, privately-owned lake located in the Towns of Islip and Babylon. Deer Lake has a documented history of low water levels during drought seasons, which impact the health and function of the lake. PW Grosser Consulting Inc. was retained to outline the design, construction costs, permitting and obstacles anticipated for the installation of a groundwater supply well and pump to raise and then maintain the lake water level.

The SCDPW states no public funds are available to aid in fixing the lake unless there is a public benefit for the project. An undeveloped lot at the south end of Deer Lake could provide a recreational access point for the public and will allow for funding to restore and maintain the lake to a predetermined water level. The lot is located on Kime Avenue and is planned to be developed with an ADA accessible fishing pier, sidewalk and two (2) on-street parking spaces. Augmenting lake water level and developing the vacant property for public access are known to be contentious issues among the local community.

The groundwater supply well and pump will be located at the County-owned recharge basin located at the southwestern corner of Bay Shore Road and Weeks Road. The well will draw groundwater from the Upper Glacial Aquifer formation with a 250 gallon per minute submersible pump. A pitless adapter will direct the discharge effluent to Swampawams Creek, where it will flow downstream to Deer Lake. Pump operation is controlled by a water level sensor system that will relay the water level at the south end of the lake to the pump via cellular or internet connection.

Discussions with the New York State Department of Environmental Conservation (NYSDEC) yielded that the following permits will have to be submitted: freshwater wetlands permit, LI Well permit, fish stocking permit, SPDES/discharge permit (if contamination is found in groundwater) and possibly an engineering report for the well (will be determined by NYSDEC during review of well permit). Dredging and other methods used to deepen lakes were found to not be necessary for providing a year-round fish habitat.

A construction cost estimate for the work detailed in this report was included in Appendix C. The overall cost for completing the work was estimated at $434,360.

1.0 INTRODUCTION

1.1 Background

The Suffolk County Department of Public Works (SCDPW) is seeking to rehabilitate Deer Lake, an artificial, privately-owned lake located in the Towns of Islip and Babylon. The lake is managed by the Deer Lake Homeowners Association (DLHO), consisting of the local residents and homeowners. The lake has a documented history of extreme water loss during drought seasons (Pluhowski, 1970) (NYSDEC, Personal Communication), which impact the health and function of the lake.

The lake is fed primarily by groundwater, storm-water runoff and streamflow from Swampawams Creek. Lake water level is controlled by a weir structure owned by Suffolk County. Lake water is retained by a layer of fine-grained, silty sediments that forms a near-impermeable bottom surface. With permanent saturation, the lake bottom sediments expand to impede water loss from seepage. Sufficient lake water levels were maintained during a period of time when a nearby gas station had installed a well treatment system to remediate groundwater from a previous spill. The treated effluent was discharged into Swampawams Creek, north of Deer Lake, at a flow rate of 100-120 GPM. When the remediation effort finished and the treatment system was shut down, the lake was once again subject to drying out due to dry weather patterns.

Plans to rehabilitate the lake by maintaining its water level have been formulated as far back as the 1960's. These plans have included the installation of a groundwater supply well to pump groundwater into the lake during dry periods and dredging to provide deep water areas for protecting fish populations. Efforts to enact these plans have met obstacles in the form of local opposition from the DLHO and unavailable public lands in which to install the required, physical infrastructure. The SCDPW claims no public funds are available to aid in fixing the lake unless there is a public benefit for the project.

There is one remaining property, located on Kime Avenue, on the south side of Deer Lake that is undeveloped. See Appendix A, Figure 1 for a general location plan of the entire project area. The Kime Avenue property has been the subject of a recent lawsuit between the current owner and the NYSDEC. The outcome of the lawsuit ruled in favor of the NYSDEC, which declared that the owner could not develop on the lot. In light of the verdict, the SCDPW now wishes to acquire the Kime Avenue property as this lot can provide a recreational access point for the public and may now provide public funding to rehabilitate the lake.

1.2 Scope of Services

In May of 2016, The Suffolk County Department of Public Works (SCDPW) retained P.W. Grosser Consulting, Inc. (PWGC) to conduct a lake rehabilitation study. The purpose of the study is to outline the design, construction costs, permitting and obstacles anticipated for the following tasks:

- Have the Kime Avenue Property appraised by the Suffolk County Appraiser's Office
- Acquire the Kime Avenue Property
- Contract a reputable, local surveyor to perform a topographic survey of the Kime Avenue Property
- Conduct a bathymetric survey of Deer Lake to measure water levels as well as bottom sediment
- Select a location to install a groundwater supply well pump to supplement the water level of Deer Lake
- Select an instrumentation system that can monitor lake levels and automatically control the start and stop of the well pump
- Build an ADA accessible fishing pier at the Kime Avenue Property
- Improve the Kime Avenue property with on-street parking and slip-resistant walkway
- Stock Deer Lake with fish. Provide direction on whether the lake needs to be deepened to improve fish survivability.

2.0 DESCRIPTION OF EXISTING CONDITIONS

A map of the surrounding area can be found in Figure 1 in Appendix A. The SCDPW granted authorization to PWGC and its subcontractor(s) to access the DLHO properties.

2.1 Kime Avenue Property

The Kime Avenue property is located in the Town of Islip and has no known address. The property is located in between 197 Kime Avenue and 399 Kime Avenue. The Suffolk County Tax Parcels Map No. is: Section-335 Block-1 Lot-3.5. The property is currently vacant of any structures and has been deemed undevelopable by the NYSDEC.

PWGC visited the Kime Avenue property on 06/17/2016 to document the existing conditions. The property lies on the south side of Deer Lake and is bordered by a chain-link fence with an opening facing Kime Avenue. The west side of the property contains a concrete weir structure owned and maintained by the SCDPW. The level of the lake is controlled with a wood flashboard. On the day of the site visit, the lake water level was observed to be several inches vertically below the concrete base of the weir structure. The sides of the concrete weir

structure had visible water stains indicating past water levels. The wood flashboard measured 2'-2" above the base slab of the weir. The water stains on the weir walls measured 2'10" high from the base slab of the weir.

The east side of the property has a wooden bulkhead in poor condition and is overgrown with native vegetation. Except for a grass pathway, the entire site is heavily vegetated with wetland brush and trees with a height of approximately 30 feet. Photos 1 through 4 depict the current site conditions.

Photo 1: Kime Avenue Property, Entrance at Kime Avenue

Photo 2: Concrete Weir Structure at South Bank of Deer Lake

Photo 3: Concrete Weir Structure and Wooden Flashboard

Photo 4: Abandoned Wooden Bulkhead

2.2 Recharge Basin

A potential location for the installation of the well & pump is a recently constructed recharge basin. The recharge basin property is owned by Suffolk County and is located on the southeast corner of Weeks and Bay Shore Road. See Appendix A, Figure 1 for a general location map. Recent construction involved an asphalt pavement driveway, gabion block walls, a vegetated sand filter bed and a PVC underdrain system that drains into Swampawams Creek. The areas surrounding the recharge basin were heavily vegetated. The site is secured with a chain-link fence and locked gate facing Weeks Road. The chain-link fence surrounds the entire property and runs on top of an artificial berm along the southern border. The SCDPW provided PWGC an as-built drawing plan of the recent construction on 06/20/2016 (included in Appendix D).

PWGC obtained access to the recharge basin property on 06/24/2016 with the permission of the SCDPW Highways Division. According to the SCDPW, the berm on the southern portion of the site was breached and in a state of disrepair. Unauthorized access to Swampawams Creek was possible through an approximately 5' high gap underneath the chain-link fence. This gap was where the filter bed PVC piping ran to reach Swampawams Creek. The ends of the three PVC pipes were visible during the site visit and observed to have been wrapped in filter fabric and partially covered with stone riprap. Photos 5 through 9 depict the current site conditions.

Photo 5: Recharge Basin Entrance at Weeks Road

Photo 6: Recharge Basin Asphalt Driveway and Gabion Block Wall

Photo 7: Recharge Basin Filter Bed

Photo 8: Recharge Basin Berm Opening, Partially Damaged from Storm Runoff

Photo 9: Riprap Leading to Swampawams Creek from Recharge Basin Property

2.3 Swampawams Creek

Swampawams Creek is located both north and south of Deer Lake. The headwaters can be traced to roughly 6,000' north of Deer Lake (Pluhowski, 1970) and runs south past the Southern State Parkway and along C.R. 231 to Hawleys Lake in Babylon. The creek flows into the Recharge Basin property and is largely inaccessible north of Deer Lake. From aerial maps, the extents of the creek that are north of Bay Shore Road and east of an industrial park are owned by either the County Department of Parks or the Town of Babylon. None of these properties were accessible from public roads and, therefore, were eliminated as potential development areas in this study for either the well and pump or for recreational options.

3.0 BATHYMETRIC SURVEY

3.1 Bathymetry and Sediment Depth Survey

Field sampling and surveying were conducted on June 9th and 10th of 2016 in the north and south sections of Deer Lake by PWGC. Open water areas were surveyed for bathymetry and sediment depths. The number of survey points varied between the two (2) lake areas based on adequate watercraft accessibility and the shape of the water bodies.

Each survey location measured the water, soft and hard bottom. Soft bottom depths were measured by using a pole that reached the top of the lake bed surface. The pole was then pushed further down through to the hard bottom. The thickness of the nearly impervious, silty lake bed mud can be estimated from the distance between the two depth measurements. A GPS (Global Positioning System) location was marked for each survey location so that it could be mapped to the location on the lake. The bathymetric surveys can be found in Appendix B, Figures 1 and 2.

The bathymetric surveys revealed that the maximum depth of the lake water in the south and north portions were 2.08' and 2.45', respectively. This is characterized by the depth between the top of the soft sediment and the lake surface. Measurements between the soft and hard surfaces revealed that the lake bed is 0" to 8" thick in the southern portion and 3"-1'-3" in the northern portion.

3.2 Sediment Samples

A sample of both the silty lake bed (sediment located between the soft and hard bottom) and the hard bottom were taken on June 10th of 2016. The lake bed was a very fine, silty mud that was black in color and did not have a strong odor. The hard bottom was a mixture of sand

and gravel with an odor of decomposing organic material. These two (2) samples were helpful in characterizing the particle sizes of the lake bed sediment for seepage analysis.

4.0 DESIGN AND LOCATION SELECTION OF THE GROUNDWATER SUPPLY WELL

4.1 Analysis of Potential Well Locations

There are three (3) potential well locations that were evaluated for this study. These locations are: Kime Avenue property, the recharge basin owned by the County and Swampawams Creek north of Bay Shore Road. The ideal location for the well will have 3 phase power available at a nearby utility pole, be secure from vandalism and be located upstream of Deer Lake.

The Swampawams Creek locations north of Bay Shore Road are not feasible for the well location since they are inaccessible by a public right of way. An easement for power and access would have to be acquired from an existing private-lot owner.

The Kime Avenue property is south of Deer Lake and, therefore, is downstream of it. A groundwater supply well pump installed at Kime Avenue would either have to be pumped to an outfall location north of Deer Lake across several residential property lots to service the northern section of Deer Lake, or would only service the southern section of Deer Lake. Additionally, there is no access to 3 phase power along Kime Avenue.

The recharge basin north of Deer Lake is the most feasible place to install a groundwater supply well pump. The property is already owned by the County, has 208V, 3 phase power along Bay Shore Road and has direct access to Swampawams Creek upstream of Deer Lake. The property is already surrounded by a locked, chain-link fence gate which will prevent vandalism of the well and appurtenances.

4.2 Regional Geology/Hydrogeology

The geologic setting of Long Island is well documented and consists of crystalline bedrock composed of schist, granite, and gneiss overlain by layers of unconsolidated deposits. The upper surface of the bedrock is found at a depth of approximately 1,300 feet below sea level.

The crystalline bedrock has poor water-yielding potential compared to the consolidated layers that overlie the bedrock and is therefore considered an impermeable base to the aquifer system. For this reason, no public water supply wells are screened in the bedrock.

4.3 Local Geology / Hydrology

Immediately overlying the bedrock is the Raritan formation, consisting of the Lloyd Aquifer and the Raritan Clay Member. The Lloyd Aquifer is the deepest of the Aquifers and consists of discontinuous layers of gravel, sand, sandy and silty clay, and solid clay. This Aquifer lies on the bedrock surface, is approximately 275 feet thick, with a depth to the top of the aquifer of approximately 1,025 feet below sea level. The average horizontal hydraulic conductivity of this aquifer is 60 ft/day and has a horizontal to vertical anisotropy of 10:1.

Overlying the Lloyd Aquifer is the Raritan Clay Member. The clay member can be found at a depth of 825 feet below sea level, with an average thickness of 200 feet. The Raritan Clay Member is relatively impermeable, effectively hydraulically isolating the Lloyd Aquifer from overlying aquifers. The Raritan Clay is solid and silty clay with few lenses of sand and gravel. The clay is lignite and pyrite and is gray, red or white in color. The use of the Lloyd aquifer requires New York State Department of Environmental Conservation (NYSDEC) permission and currently there is a moratorium preventing wells from being screened in this formation.

Next is the Magothy formation which lies on top of the Raritan Clay formation. The approximate depth to the formation is 125 feet below grade and extends to a depth of approximately 900 feet, with a total thickness of 775 feet. The Magothy Aquifer is comprised of fine to course sand of moderate to high permeability, with lenses of silt and clay of low permeability. The average horizontal hydraulic conductivity of this aquifer is 50 ft/day and has a horizontal to vertical anisotropy of 40:1. This is the principal aquifer underlying Long Island and is the island's main source of water for public supply.

The last formation is the Upper Glacial formation, which rests on top of the Magothy Aquifer. The aquifer is comprised of fine to course sand and gravel with occasional thin lenses of fine sand and brown clay. The Upper Glacial Aquifer generally has greater water transmitting properties than the underlying Cretaceous age deposits and includes the saturated parts of the upper Pleistocene deposits. The average horizontal hydraulic conductivity of this aquifer is 270 ft/day. The aquifer yields water of marginal quality and is vulnerable to contamination from surface sources.

Refer to Table 1 below for a generalized description of the hydrogeologic units (Pluhowski and Kantrowitz, 1970).

TABLE 1
GENERALIZED DESCRIPTON OF HYDROGEOLOGIC UNITS

Hydrogeologic Unit	Geologic Unit	Description and Hydraulic Characteristics
Upper Glacial Aquifer	Upper Pleistocene Deposits	Till and outwash deposits of sand, silt, and clay and boulders. Varied permeability with an average hydraulic conductivity of 270 feet per day and an anisotropy of 10:1. Outwash has the highest hydraulic conductivity.
Magothy Aquifer	Matawan Group – Magothy Formation, undifferentiated	Fine sand with silt and interbedded clay. Gray and pale yellow quartz sand. Lignite and iron-oxide concretions common. Moderately permeable with an average horizontal hydraulic conductivity of 50 feet per day and an anisotropy of 40:1.
Raritan Confining Unit (Raritan Clay)	Unnamed clay member of the Raritan Formation	Clay. Solid with multicolors such as gray, white, red, or tan. Very poorly permeable. Confines water in underlying unit. Average hydraulic conductivity of 0.001 foot per day.
Lloyd Aquifer	Lloyd Sand Member of the Raritan Formation	Fine to coarse sand and gravel with clay lenses. Moderately permeable with an average hydraulic conductivity of 40 feet per day and an anisotropy of 10:1.
Bedrock	Hartland Formation Crystalline Bedrock	Highly weathered biotite-garnet-schist with low hydraulic conductivity. Impermeable to poorly permeable.

4.4 Well and Pump Design

The purpose of the well and pump is to provide flow augmentation to Deer Lake and maintain the desired water level. The production rate of the well will have to overcome the combined effects of water loses from evaporation and seepage. With the conditions discussed in Section 4.3, the well and pump can be designed to a sufficient level of detail. Prior to well construction, PWGC recommends drilling an exploratory boring at the well site to confirm existing ground conditions and to prepare the final design documents.

4.4.1 Evaporation

Evaporation rates were estimated from USGS Water-Supply Paper 1768 (Pluhowski and Kantrowitz, 1964). The referenced resource lists average evaporation rates for Long Island during each month. Long days and a high angle of incoming sunlight results in higher water surface temperatures. This causes an increase in the amount of evaporation in the late summer and fall months.

To design for the worst case scenario, evaporation rates for the month of July were used. Additionally, no precipitation was assumed to simulate drought conditions. According to the USGS paper, the average amount of pan evaporation in the month of July in Mineola from 1949-1960 was 7.75 inches. The conversion between pan evaporation and lake evaporation requires multiplying the pan evaporation by 0.75 to represent the non-uniform conditions that a natural body of water would experience. Therefore, the entire lake area may evaporate 0.188 inches per day.

4.4.2 Seepage

The rate of seepage through the lake bottom is dependent on the composition of the soils of the mud bed. Smaller particle sizes lead to lower seepage rates, which can be estimated from their hydraulic conductivities. As was confirmed by samples taken from PWGC's bathymetric survey, the lake bottom consists mostly of extremely fine grained, silty mud. The hydraulic conductivity for this soil will be assumed to be K = 3.28 x 10-7 ft/sec or 0.34 inches per day. (Raudkivi and Callendar, 1976).

4.4.3 Design Flow Rate Calculations

DAILY LOSSES = EVAPORATION + SEEPAGE

Evaporation/day = 7.75 in/month x 1 month/30 days x 1 day x 0.75 x 850,000 sq.ft. x 1/12 "/ft =
= 13,724 cu ft./day = 102,655 gals/day = 71.3 gals/min.

Leakage/day = 3.28 x 10 -7 ft./sec x 86,400 sec/day x 850,000 sq. ft. =

= 24,088 cu. ft. /day = 180,180 gals/day

Daily losses = 102,655 gals/day + 180,180 gals/day = 282,835 gals/day

Daily losses = 282,835 gals/day / 1,440 min./day = 196 gals/min.

Factor of safety 1.25

Recommended pumpage rate = 196 gals/min x 1.25 = 245 gals/min.

Select 250 gals/min for pump design

4.4.4 Well Design

The proposed well shall be designed to have a production rate of 250 gpm. Historical records show that the lake level was maintained in the late 1990's by effluent discharged from a gas station spill remediation well. This well was reported to have a 100-120 gpm discharge rate into Swampawams Creek downstream of the Recharge Basin. See Appendix D for a plan obtained from the gas station owner depicting the location of the groundwater wells and discharge site. The high flow rate is more beneficial in that it will be better at preventing still water conditions. Still water during extreme summer and winter weather conditions can create oxygen deficient water that can cause fishkills (Diet for a Small Lake, 2009).

Based on the hydrogeological conditions of the Upper Glacial Aquifer, the well shall be constructed with 10" diameter steel casing and extend 82' deep bgs (below grade surface). The well will have a 15' long, 4.875" diameter stainless steel screen section. A test boring will be completed prior to the permanent well construction for the purposes of logging local geologic conditions and determining the final screen setting and configuration. A test well will be installed in the borehole for water quality sampling and testing. The well will have a pitless adapter configuration to eliminate the need for an expensive, concrete vault and allow for the discharge to remain below the frost line.

Water will be discharged out of the well through a 6" diameter ductile iron pipe to an outfall structure adjacent to Swampawams Creek. The riprap of the outfall structure will dissipate the energy of the water coming out of the pipe and introduce dissolved oxygen into the water which is beneficial to aquatic life. Preliminary design details for the well and pump can be found in Appendix A, Figure 5.

4.4.5 Instrumentation and Water Level Control

The pump in the groundwater supply well is to be controlled based on the water level measured at the weir structure on the Kime Avenue property. The pump will only be operating when the system senses that the water level is below a predetermined elevation. An instrumentation system will be required that can detect the water level at the weir and be able to energize the pump which is approximately 1 mile upstream.

Several communication technologies were researched for this task, with cellular and internet/data connections selected to be the most fitting. Spread Spectrum Radio signal technology was initially considered but eliminated since it requires direct line of sight between the transmitting and receiving stations. The Kime Avenue property and the Recharge Basin have no direct line of sight at ground level. The land in between the two locations contains thick vegetation and trees over 25 feet high. To facilitate spread spectrum radio signal transmission, it may be necessary to install 35'+ high utility poles at both locations. The utility poles would have a high capital cost, introduce permitting issues found in the Town of Islip Building Code and be aesthetically unappealing to the surrounding residents.

An Aquatape AGS/20F Level Gauge can be installed at the weir structure or in the lake inside a slotted still pipe to measure the lake water level. The instrument works by correlating electrical resistance of compressed wires inside a tape with the hydrostatic pressures of the water column. The Aquatape communicates wirelessly to a Metrilink field unit that connects to Ethernet cable connection. This setup will communicate with a SNMP relay also connected via Ethernet cable at the Recharge Basin and then on to the Programmable Logic Controller (PLC) panel that controls the pump. Except for the PLC panel, the equipment mentioned previously is all manufactured by JOWA USA. The schematic design of this system can be found in Appendix A, Figure 4.

The control system will activate the pump once the Aquatape measures the water level to be below the flashboard at the weir. When this has been measured, the PLC panel will turn on the pump and have it run until the Aquatape senses the water level to be at a sufficient level. PLC controls include programming that will have a minimum runtime built into the pump operation to prevent rapid on/off cycling. Failsafe and contingency measures can be programmed into the control system logic to account for sensor failures, power outages, etc.

5.0 SITE IMPROVEMENTS

5.1 Kime Avenue Property

5.1.1 Kime Avenue-Site Improvements

The Kime Avenue property is to be developed with an ADA accessible fishing pier, ADA-compliant non-slip concrete pathway and two (2) on-street parking spaces. Site improvements and general layout are shown in Appendix A, Figure 3.

In order for development to take place, the SCDPW must first acquire the Kime Avenue property. The Kime Avenue property is located entirely within the Town of Islip. An appraisal of the value of the property was performed by the County Appraiser's Office. The appraised value range was $15,000 to $28,000. For the purpose of cost estimating, a value of $28,000 was utilized.

The ADA fishing pier will be a fixed pier with a gangway and transition plate. Handrails on the gangway and pier shall be 42" high at all points except for two (2) designated ADA accessible fishing spots with 34" high railings spanning 30" each. A pier with ADA handrails can be designed and constructed. The pier provides access for four (4) anglers, including two (2) that need ADA access. .

Site ADA accessibility will require a slip-resistant surface connecting the pier location and the roadside. A topographic survey conducted as part of this report permits the walkway to be designed that meets ADA slope requirements.

There are currently no provisions for off-street parking. Two (2) on-street parking spaces will have to be designed, with one (1) being ADA compliant. The ADA compliant parking spot will require a curb cut to widen the street and the installation of a sloped, wheelchair ramp with a detectable warning track. The existing chain-link fence opening provides access to the Kime Avenue property has a storm catch-basin embedded in the curb in front of it. The on-street parking spots and ramp will have to be located further west at the Kime Avenue property than the current access point. The chain-link fence may be relocated further from the road to allow for a walkway of ADA-compliant width to be installed from the parking spaces to the fence opening. See Appendix, Figure 3 for a plan showing improvements to be made to the Kime Avenue property.

An existing wooden bulkhead in a state of disrepair will be demolished and the area regraded. Thick, wetland vegetation has overgrown in the vicinity of the bulkhead and has

caused significant damage and rot to the structure. The bulkhead should be removed to avoid injury to members of the public that use the Kime Avenue property. The bulkhead serves no obvious purpose and would not have to be replaced.

The chain-link fence is located on the north side of the property along the banks of Deer Lake. At the proposed pier access point, the fence will be modified to provide access.

The site will have to be supplied with 110V electrical service and internet/data service for the instrumentation system components. If an internet/data service is chosen for the communication between the transmitter and sensor, additional communication cables will be run. Cellular services will not require communication cables. Utility poles run along Kime Avenue, allowing for these two services to be provided with trenching through vegetated areas. All instrumentation, electrical service components and data components will have to be protected by tamper-proof enclosures to prevent vandalism. The data connection for the instrumentation system will incur monthly charges to run the system.

5.1.2 Kime Avenue-Permitting and Regulatory Concerns

- The banks bordering Deer Lake are considered a wetland by the NYSDEC. A surveyor will have to mark the extents of the wetland as defined by the NYSDEC. A freshwater wetlands permit will have to be submitted and obtained from the NYSDEC for the bulkhead demolition and developing this property with the pier. This can be accomplished using the NY State Joint Application Form.
- Per conversation with Dan Lewis of the NYSDEC (Division of Fish and Wildlife Services): All vegetation disturbed or removed due to construction activities must be replaced. High consideration will be given to activities that are the least destructive to existing site flora.
- A 'Permission to Inspect Property' form must be submitted to the NYSDEC by the owner of the property.
- A 'Short Environmental Assessment' form must be submitted to the NYSDEC by the owner of the property or Engineer of Record.
- Town of Islip Building Code (Chapter 68: Zoning, Article XXIV, §68-420.1) defines and dictates regulations on wireless communication towers. A utility pole installed for the purposes of transmitting spread spectrum radio signals for the instrumentation system would be limited to 35' high, designed for minimal visual impact, must be located 110%

of its height back from the nearest property line and must be surrounded by a 6' high chain-link fence.

- ADA regulations and requirements apply to the pier and its components (railings, gangway, transition plate etc), the site walkway, walkway ramp and parking spaces.
- A variance will have to be granted by the Town of Islip for this project in order to allow for on-street parking in lieu of off-street parking.

5.2 Recharge Basin Property

5.2.1 Recharge Basin-Site Improvements

The Recharge Basin property is to be developed with a pitless adapter groundwater supply well and an outfall structure. The well and pump will be constructed as was described in Section 3.0 and detailed in Appendix A, Figure 5. Site improvements and general layout are shown in Appendix A, Figure 2. The Recharge Basin property is currently owned by the County and is located entirely within the Town of Babylon.

The groundwater supply well will be installed on the southwest corner of the site at the edge of the existing asphalt pavement. The well/pump assembly will require an electrical meter, power panel, motor control panel to operate the pump and a PLC control panel to interface with the JOWA USA SNMP relay. Either a communications cable or cellular connection will be required to communicate with the level sensor. The well pump requires 208 volt, 3 phase power service which can be provided from a pole mounted transformer located on the utility poles on Weeks Road/Bay Shore Road. The electrical/control panels will be provided with a grounded concrete pad and mounted on vertical Unitstrut supports. All components will be located inside tamper proof, NEMA 4x enclosures and supplied by conduit trenched underground.

The well head has the option of being installed inside a concrete box with a manhole cover to provide strong resistance to being vandalized or within a pitless adapter. An underground 6" ductile iron pipe will carry the well effluent to the outfall structure at Swampawams Creek. The discharge of the well will be controlled by a 4" control valve. Either a venturi or turbine style flow meter with logging capability will be installed in an underground valve box. The outfall structure will be designed to withstand the 3 ft/s velocity of the effluent with riprap over a bed of filter fabric.

The site is located near a former gas-spill remediation site. Before the well is constructed, water samples from the test borehole should be examined for any traces of groundwater contamination. Data should be gathered from the NYSDEC on the specific chemicals being removed as part of the previous remediation system was treating in the ground and compare it with well samples. The SCDPW should take every precaution that groundwater being added to the Swampawams Creek/Deer Lake system is not contaminated, be it from known or unknown sources.

The data connection for the instrumentation system will incur monthly charges to run the system.

5.2.2 Recharge Basin-Permitting and Regulatory Concerns

- An 'Application for Long Island Well' permit will have to be prepared and submitted to the NYSDEC. The permit will have to include usage characteristics of the well. Being required to submit an Engineering Report is contingent upon NYSDEC decision during LI well permit review. (Personal Communication, David Lengyel).
- A 'Well Discharge' (SPDES) is required depending on the water quality test results. If results come back with evidence of contamination, a permit will have to be filled out and submitted to the NYSDEC.
- Swampawams Creek is considered a wetland by the NYSDEC. The extents of the wetland as defined by the NYSDEC were called out in the SCDPW As-built drawings in Appendix D. A freshwater wetlands permit will have to be obtained for developing this property with the well and outfall structure and submitted to the NYSDEC. This can be accomplished using the NY State Joint Application Form. Include the 'Structural Archaeological Assessment Form (SAAF).
- A 'Permission to Inspect Property' form must be submitted to the NYSDEC by the owner of the property.
- A 'Short Environmental Assessment' form must be submitted to the NYSDEC by the owner of the property or Engineer of Record.

5.3 Fish Stocking

With the lake water level raised and maintained, the lake can be stocked with fish. The owners of the lake, the Deer Lake Homeowners Association (DLHO), must apply for the fish stocking permit with the NYSDEC Division of Fish and Wildlife. The fish stocking permit is free

and is valid for five (5) years. Fish purchased must include a Fish Health Inspection Report certificate from the vendor that confirms that all fish are free of disease-causing pathogens.

Inquiries to the NYSDEC Region 1 Freshwater Fisheries Manager yielded several other recommendations specific to Deer Lake (Charles Guthrie, Personal Communication). With the depth maintained at five (5) feet deep, Deer Lake has a high probability of maintaining year-round fish populations. The type of fish most suitable for surviving at Deer Lake would be bass, sunfish and bluegill. The water will most likely be too warm to support trout. With the lake level raised to the height of the flashboard at the weir, dredging will not be required to provide a deep zone for fish to survive the winter. Other Long Island lakes listed on the NYSDEC website, such as Belmont Lake in North Babylon, have fish populations that live year-round with a listed maximum depth of 4' (Belmont Lake, North Babylon-NYSDEC).

Summer fishkills and algae blooms can be avoided by providing the lake with water that is high in dissolved oxygen. The riprap at the outfall structure and water traveling through rocks and brush along Swampawams Creek will aid in entraining oxygen in the lake water. Water introduced from pumping is also helpful in that it stimulates lake circulation and prevents stagnation.

Once the Recharge Basin well is developed, the water produced should be tested for dissolved oxygen content and carbon dioxide. Instrumentation for monitoring the dissolved oxygen content and temperature of the lake water may be helpful in checking the health of the lake ecosystem. There is another location on Long Island that has successfully used groundwater for providing a habitat for fish. The Connetquot Fish Hatchery at the Connetquot River State Park uses pumped groundwater for raising trout and achieves a healthy environment by managing dissolved oxygen levels.

6.0 CONSTRUCTION BUDGET ESTIMATE

A construction budget estimate was completed covering the components of the project detailed in this report. The estimate covers efforts for permitting, property acquisition, design and construction. The costs are broken down into several phases and include estimated pricing from a combination of R.S Means and vendor quotes. The overall budget cost for the project was estimated at $383,610 with a yearly operation and maintenance cost of $15,713.

7.0 REFERENCES

Belmont Lake, North Babylon - NYS Dept. of Environmental Conservation. (n.d.). Retrieved July 6, 2016, from http://www.dec.ny.gov/outdoor/24151.html

Diet for a Small Lake: the expanded guide to New York State lake and watershed management. 2d ed. (2009). NYSFOLA in cooperation with the New York State Department of Environmental Conservation.

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Personal Communication, Dan Lewis, NYSDEC Division of Fish and Wildlife. Phone Call, 6/30/2016.

Personal Communication, David Lengyel, NYSDEC Water Program Specialist. Phone Call, 7/6/2016.

Pluhowski, E. J. (1970). Urbanization and Its Effect on Temperature of the Streams on Long Island, New York. Geological Survey Professional Paper 627-D.

Pluhowski, E. J. and I.H. Kantrowitz (1964). Hydrology of the Babylon-Islip Area Suffolk County Long Island, New York. Geological Survey Water-Supply Paper 1768.

Raudkivi, A.J. and Callandar, R.A. (1976). Analysis of Groundwater Flow. Hodder Arnold Publications.

APPENDIX A-FIGURES

Legend

Existing	Proposed	Notes
		PROPERTY LINE
		WATER BOUNDARY

0 500 1000 2000

FIGURE 1: LOCATION MAP-DEER LAKE

SCALE: 1" = 1,000'

DEER LAKE REHABILITATION STUDY

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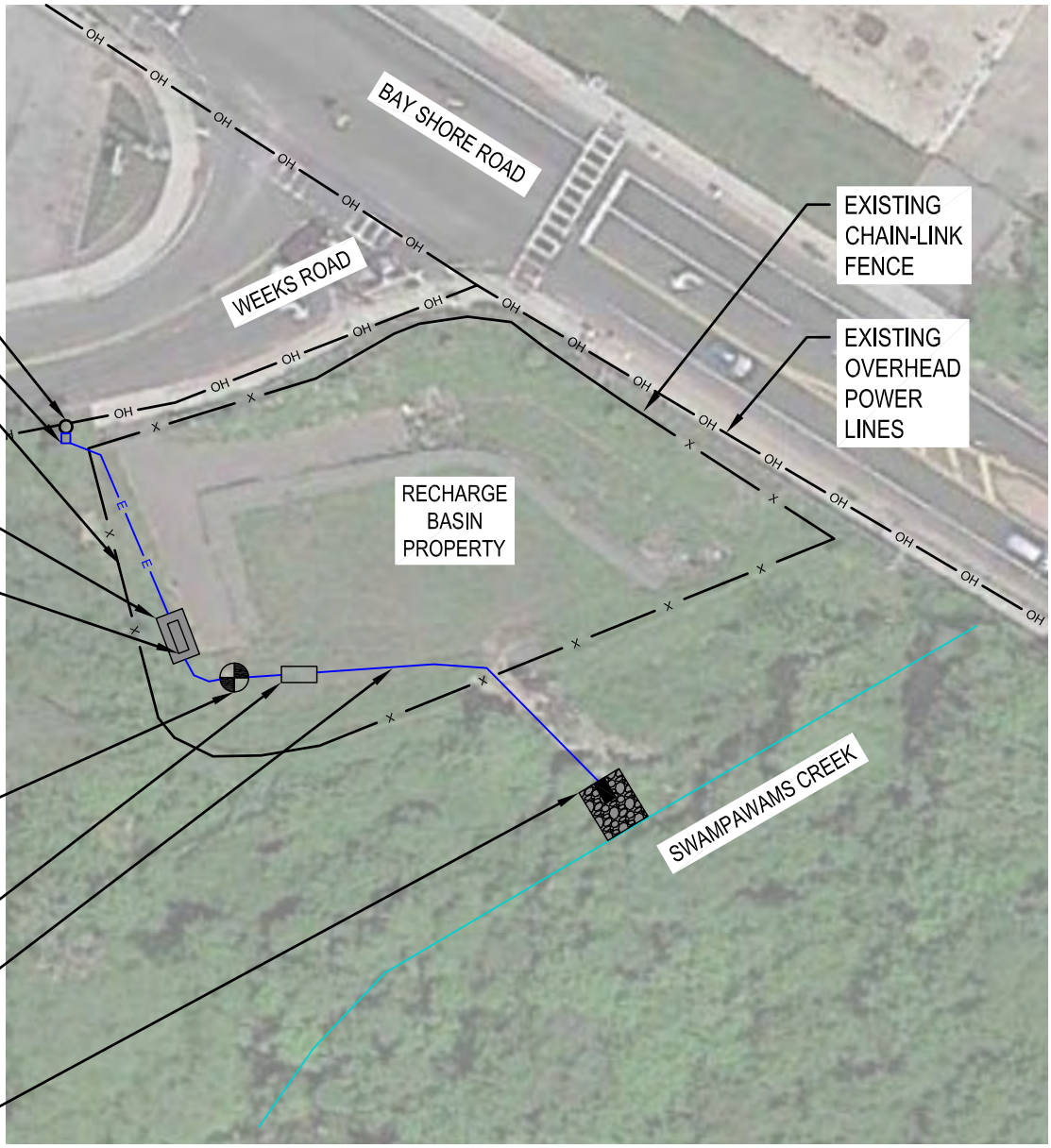
Date:	6/7/16
Figure No:	A-1



EXISTING UTILITY POLE

TRANSFORMER

TRENCHED RIGID CONDUIT, 4 WIRE #12 THHN

CONCRETE PAD, 6' x 3' x 0'8"

ELECTRICAL METER, POWER PANEL, MOTOR STARTER, PLC PANEL AND CELLULAR/DATA SIGNAL RECEVIER

GROUNDWATER SUPPLY WELL, 250 GPM

VALVE BOX WITH CONTROL VALVE AND FLOW METER

TRENCHED 6" DUCTILE IRON DISCHARGE PIPING

OUTFALL STRUCTURE

Legend

Existing / Proposed	Notes
— OH —	OVERHEAD ELECTRICAL LINE
— x —	CHAINLINK FENCE
———	NATURAL WATERWAY
— E —	ELECTRICAL LINE
⊕	GW SUPPLY WELL

NOTES:
1) SCDPW AS-BUILT DRAWING FOR RECHARGE BASIN CAN BE FOUND INCLUDED IN APPENDIX D.
2) WATER LEVEL SYSTEM EQUIPMENT PLAN CAN BE FOUND IN APPENDIX A, FIGURE 4.
3) WELL DESIGN DETAIL CAN BE FOUND IN APPENDIX A, FIGURE 5.

0 25 50 100

FIGURE 2: RECHARGE BASIN

SCALE: 1" = 50'

DEER LAKE REHABILITATION STUDY

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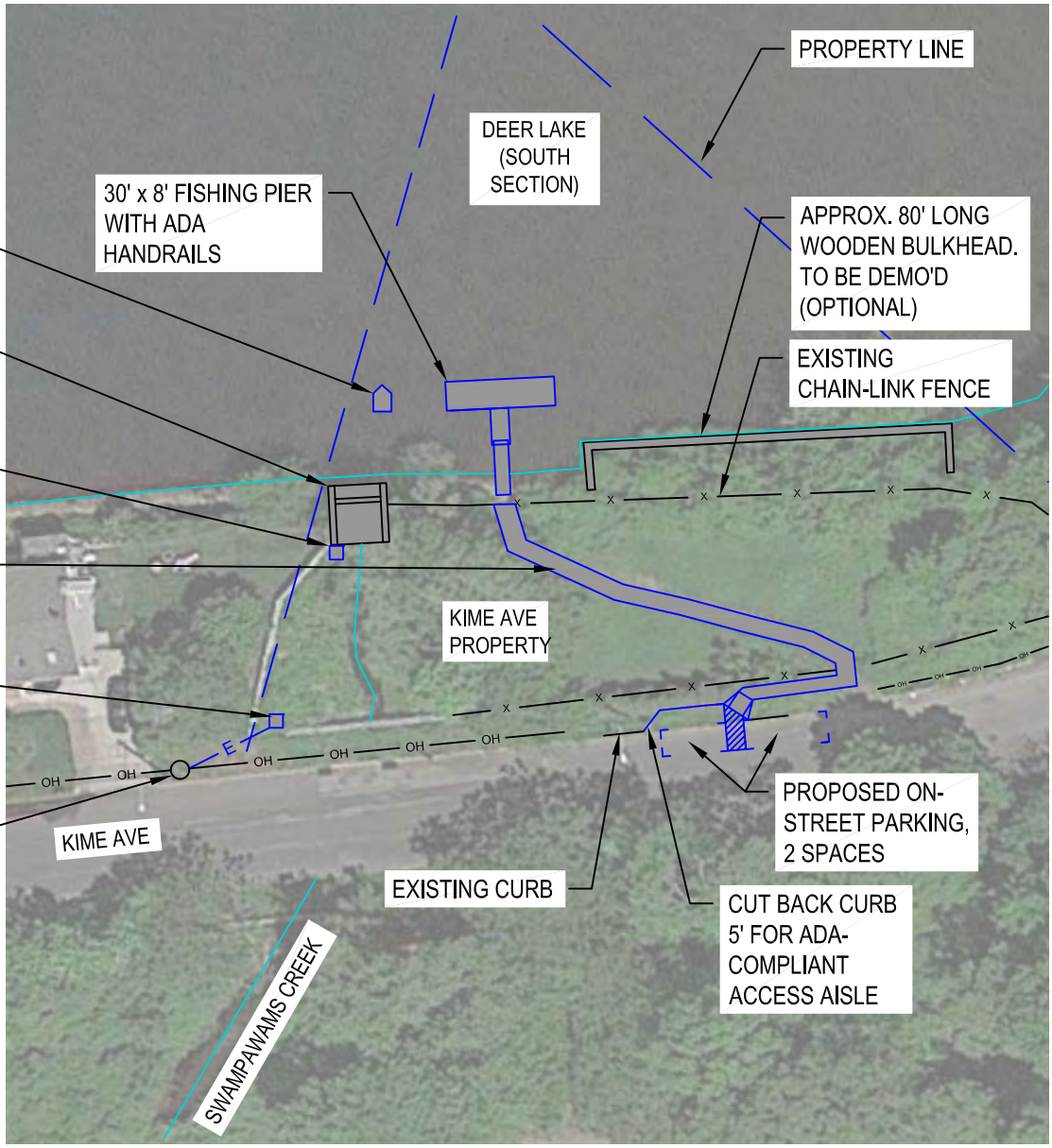
Figure No:	A-2



Legend

Proposed	Notes
OH	OVERHEAD ELECTRICAL LINE
X	CHAINLINK FENCE
	NATURAL WATERWAY
	PROPERTY LINE
E	ELECTRICAL LINE

0 50 100 200

FIGURE 3: KIME AVENUE PROPERTY

SCALE: 1" = 100'

DEER LAKE REHABILITATION STUDY

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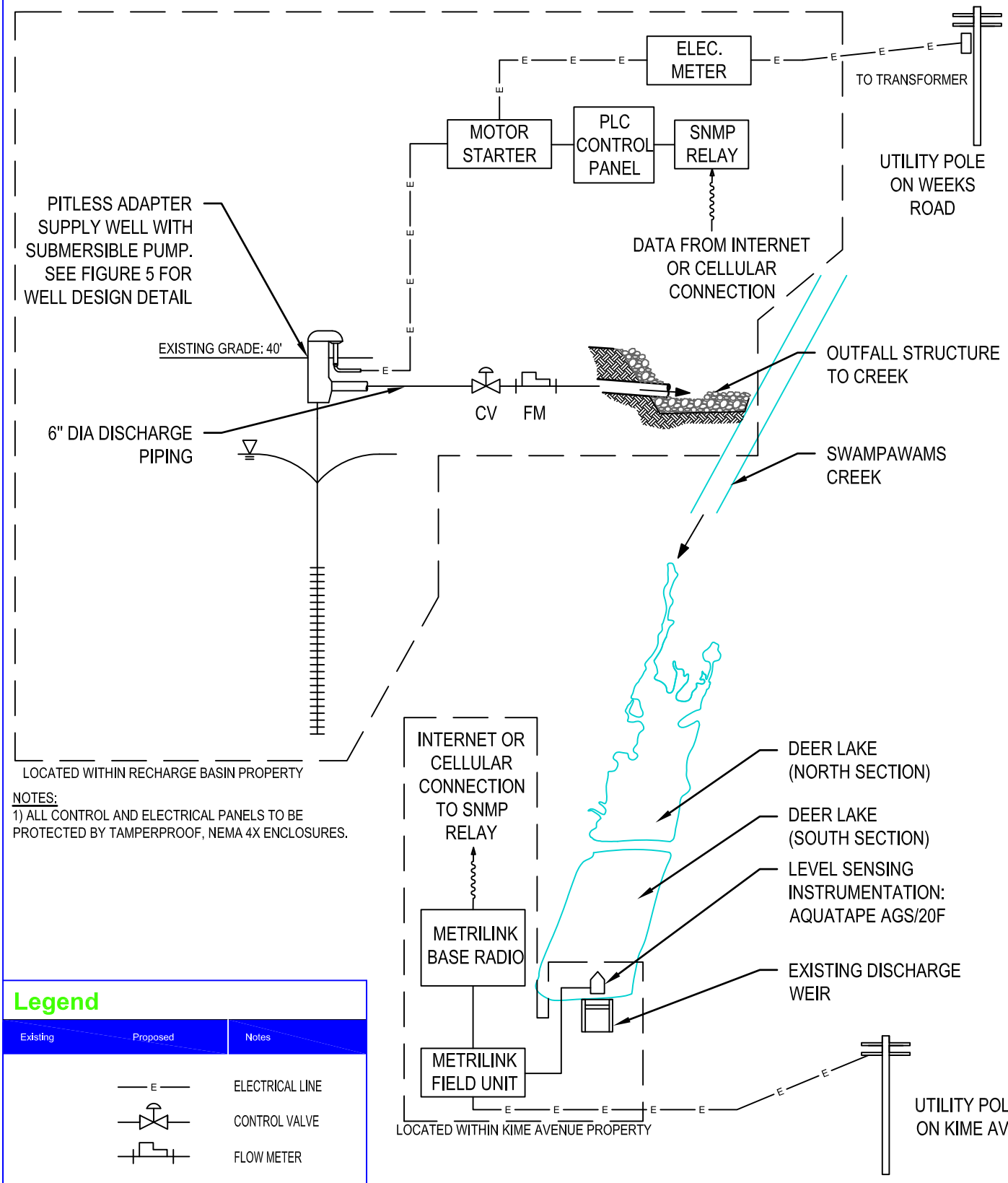
Figure No:	A-3



NOTES:
1) ALL CONTROL AND ELECTRICAL PANELS TO BE PROTECTED BY TAMPERPROOF, NEMA 4X ENCLOSURES.

Legend

Existing	Proposed	Notes
E		ELECTRICAL LINE
		CONTROL VALVE
		FLOW METER

FIGURE 4: SYSTEM SCHEMATIC

SCALE: NOT TO SCALE

DEER LAKE REHABILITATION STUDY

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Figure No:	A-4

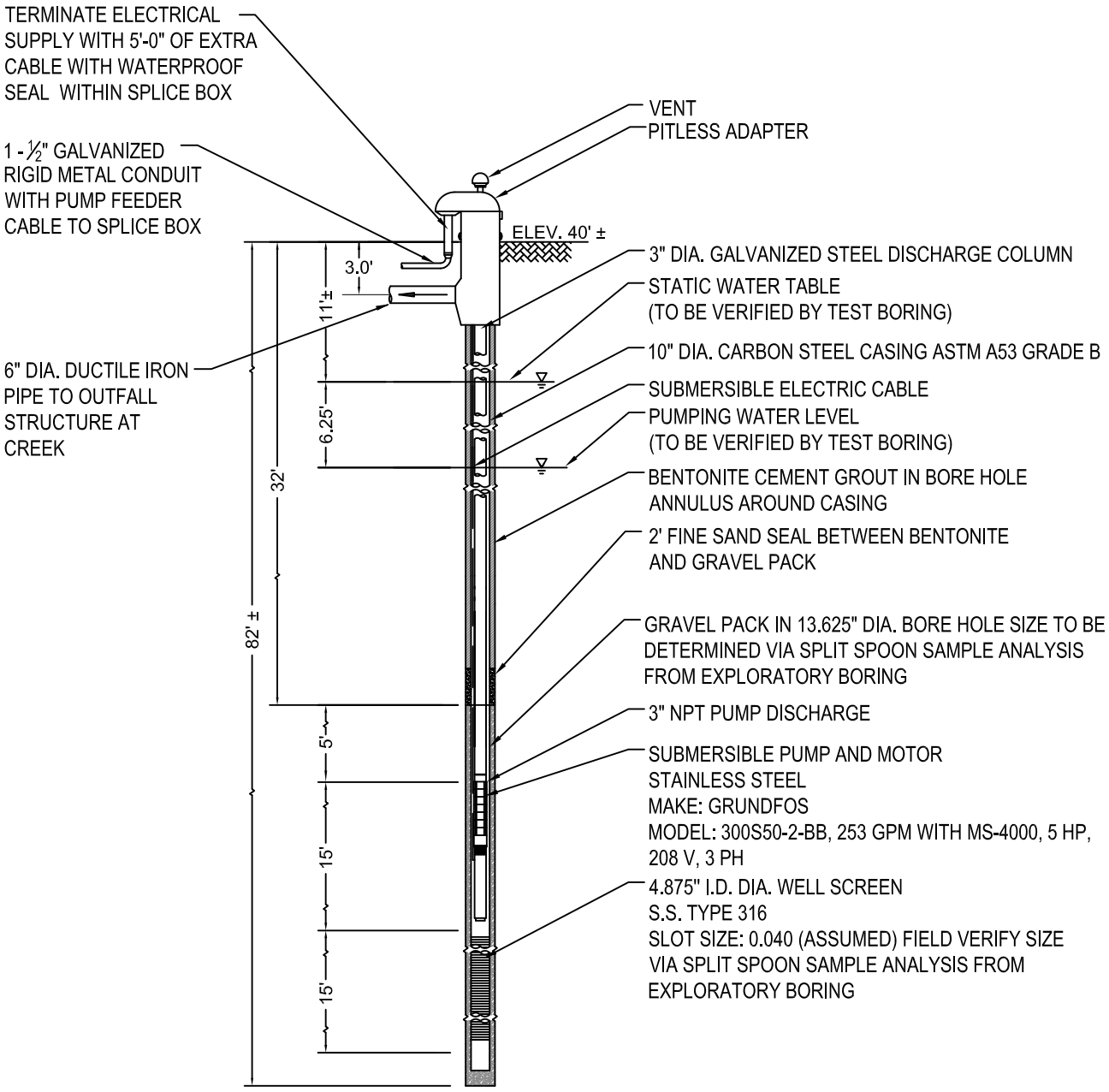

FIGURE 5: GW SUPPLY WELL DETAIL

SCALE: NOT TO SCALE

DEER LAKE REHABILITATION STUDY

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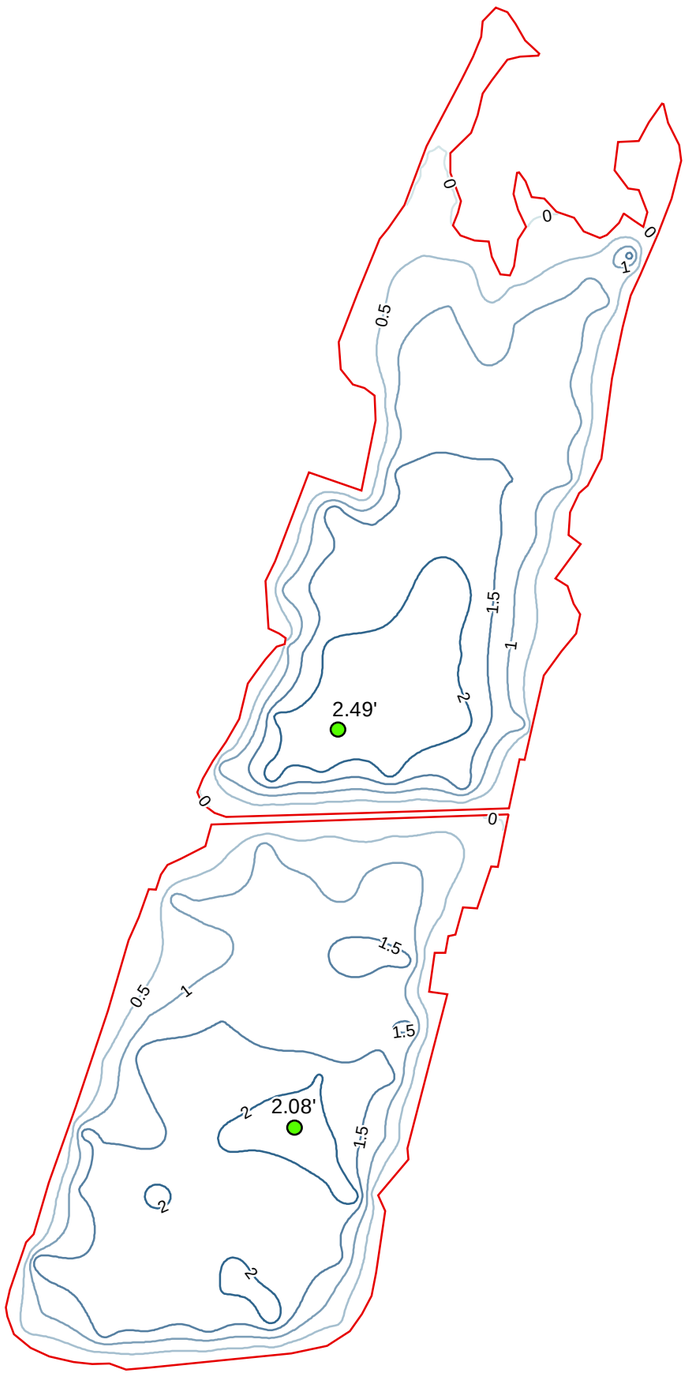
Date:	6/7/16
Figure No:	A-5

APPENDIX B-BATHYMETRIC SURVEY



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Document Path: G:\Projects\A-D\DPW1601\mapfiles\Lake_SoftSediment_Contours.mxd

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

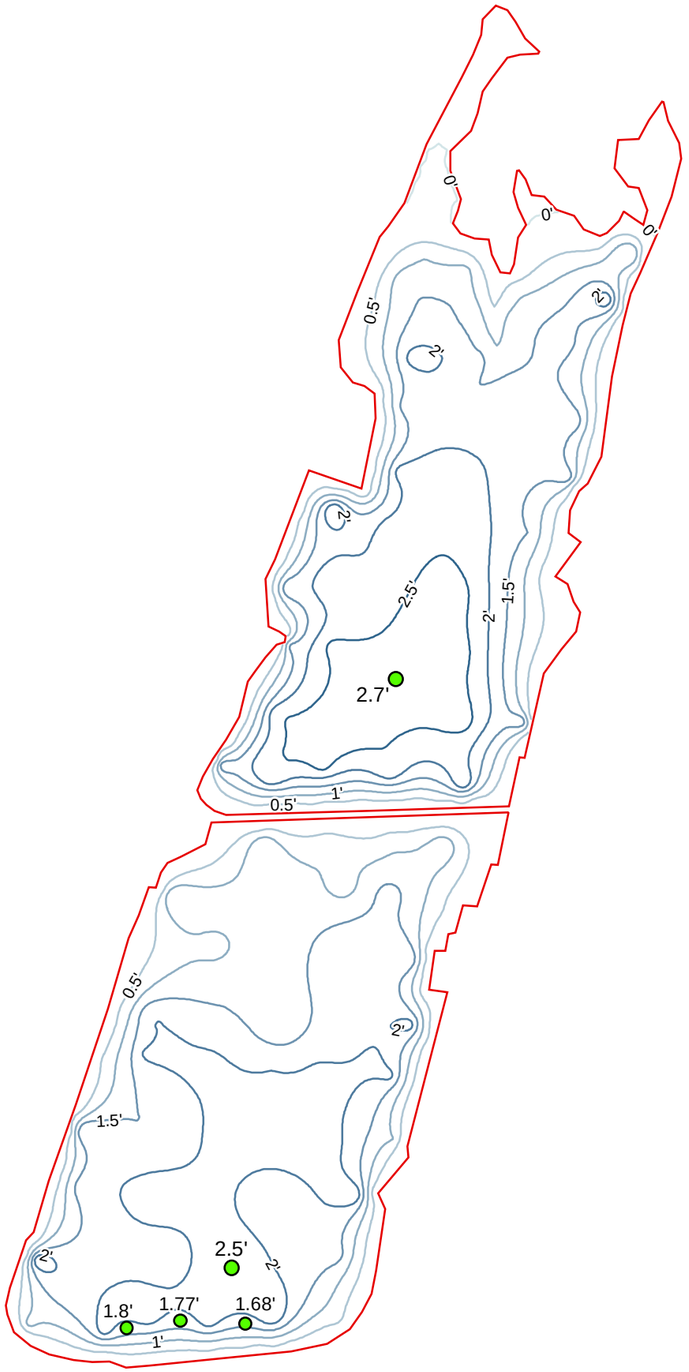
DRAWING INFORMATION:

Project:	DPW1601	Designed by:	JCG
Date:	7/1/2016	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	BH

DEPTH TO TOP OF SOFT SEDIMENT

DEER LAKE

FIGURE NO:



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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	DPW1601	Designed by:	JCG
Date:	7/1/2016	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	BH

DEPTH TO TOP OF HARD SEDIMENT

DEER LAKE

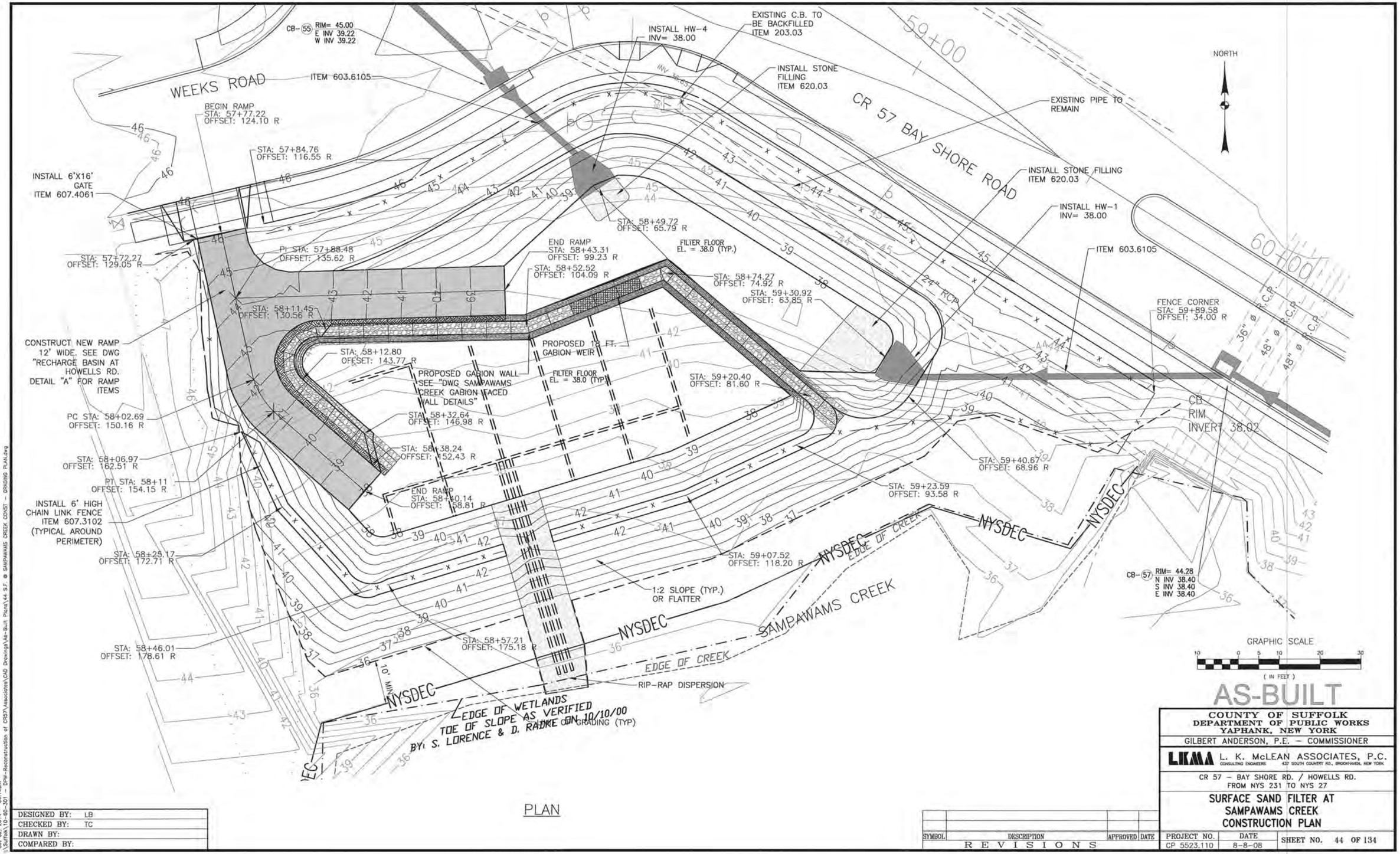
FIGURE NO:

APPENDIX C-COST ESTIMATE

Description	Quantity	Units	Cost			
			Unit Cost	Unit	Source	Total Cost
1) Land Acquisition						
1A-Acquire Kime Avenue Property						
Land Value and Acquisition Costs	1	L.S.	$ 28,000.00	L.S.	SC Appraiser	$ 28,000
Total Cost for 1) Land Acquisition						**$ 28,000**
2) New Supply Well at Recharge Basin						
2A-NYSDEC Well Permitting						
LI Well Permit Application Fee	1	ea	$ 200.00	ea	NYS DEC	$ 200
SPDES Discharge Permit (Contingent upon groundwater test results)		ea		ea	NYS DEC	$ -
Project Management for Permit Preparation	20	hr	$ 120.00	hr		$ 2,400
Engineering Report for Groundwater Well (Contingent upon NYSDEC)	1	L.S.	$ 18,000.00	L.S.	PWGC	$ 18,000
Subtotal Cost for 2A-NYSDEC Pemitting						$ 20,600
2B-250 GPM Pitless Adapter Well						
Exploratory Boring						
2-Man Drilling Crew, 100' Borehole, Test Well, 1 Field Engineer, 1 day	1	L.S.	$ 8,980.00	ea	Vendor Quote	$ 8,980
10-inch dia. supply well installation					Vendor Quote	$ 55,000
Mobilization, 2-Man Drilling Crew, 100' Well, 1 Field Engineer, 5 days	1	ea				$ -
Install Grundfos well pump, model 300S50-2-BB	1	ea				$ -
Install pitless adaptor	1	ea				$ -
Grouting	60	ft				$ -
Steel Casing, 10" dia	67	ft				$ -
Stainless Steel Screen, 4.875" dia, 10 ft lengths	2	ea				$ -
Stainless Steel Sump	1	ea				$ -
Miscellaneous Equipment (drillers mud, sand/gravel etc., sump)	1	L.S.				$ -
Groundwater quality analysis, (Iron Content, DO, Contaminants)	1	L.S.				$ -
Subtotal Cost for 2B-New supply well and submersible pump						$ 63,980
2C-Water Distribution System and Connections						
Land preparation/vegetation clearing for site improvements	1	L.S.	$ 2,500.00	L.S.	31.13.13 10 0100	$ 2,500
Excavate pipe trench, 8" wide, 36" deep, include backfill and compaction	120	lf	$ 7.33	lf	31.23.16 14 0750	$ 880
Provide and install 6" ductil iron disharge piping	120	lf	$ 29.00	lf	33.11.13.15 3020	$ 3,480
4-inch control valve	1	ea	$ 5,760.00	ea	22.11.19 42 5700	$ 5,760
6-inch venturi tube flow meter	1	ea	$ 2,190.00	ea	23.21.20 88 0280	$ 2,190
Underground valve box	1	ea	$ 1,000.00	ea		$ 1,000
Digital Indicator display at control panel	1	ea	$ 365.70	ea		$ 366
Outfall structure, riprap and filter fabric	1	L.S.	$ 2,500.00	ea		$ 2,500
Subtotal Cost for 2C-Distribution System and Connections						$ 18,676
2D-Recharge Basin Electrical Upgrades						
Excavate pipe trench, 8" wide, 36" deep, include backfill and compaction	80	lf	$ 7.33	lf	31.23.16 14 0750	$ 587
Rigid steel conduit, plastic coated, 40 mil thick, 1-1/2" dia	80	lf	$ 10.37	lf		$ 829
Copper Wire, THHN #12	320	lf	$ 2.27	lf		$ 726
Concrete Equipment Pad, 8" thick	1	ea	$ 390.00	ea	03.30.53 40 3560	$ 390
Electrical Equipment (power panel, motor starter, elec. meter, connections)	1	L.S.	$ 30,000.00	L.S.		$ 35,000
LIPA Load Letter	1	ea	$ 300.00	ea		$ 300
NEMA 4x Enclosures, Steel	3	ea	$ 400.00	ea		$ 1,200
Three phase,480v transformer	1	ea	$ 3,150.00	ea	26.22.13 10 3500	$ 3,150
Subtotal Cost for 2D-Existing supply well abandonment						$ 42,182

Description	Quantity	Units	Cost			
			Unit Cost	Unit	Source	Total Cost
Tamperproof Enclosed Panels	2	ea	$ 300.00	ea		$ 600
Instrumentation system installation, setup, programming and calibration	1	L.S.	$ 8,316.00	L.S.		$ 8,316
Subtotal Cost for 2E-Water Level Sensor and Controls						$ 13,971
Subtotal Cost for 2A-2E						$ 159,408
Contractor Overhead and Profit (21%)						$ 33,500
Total Cost for 2) New Supply Well						**$ 192,908**
3) Site Improvements-Kime Avenue Property						
3A-Permitting						
Freshwater Wetlands Permit-Dock, Bulkhead Demolition	1	ea	$ 200.00	ea	NYSDEC	$ 200
Project Management for Permitting	20	hr	$ 120.00	hr		$ 2,400
Fish Stocking Permit	1	ea	$ -	ea	NYSDEC	$ -
Subtotal Cost for 3A-Permitting						$ 2,600
3B-Vegetation Clearing and Replacement						
Clear Vegetation, Trees for all construction activities, 0.25 acre	1	L.S.	$ 2,500.00	L.S.	31.13.13 10 0100	$ 2,500
Demolish existing wood bulkhead, 80'x15' bulkhead	1	L.S.	$ 10,000.00	L.S.		$ 10,000
Replanting at end of initial construction, 0.25 acre	1	L.S.	$ 5,000.00	L.S.		$ 5,000
Subtotal Cost for 3B-Clear & Grub Property						$ 17,500
3C-On Street Parking and Walkway						
Curb Cut on Kime Avenue	1	ea	$ 1,000.00	ea		$ 1,000
Demo Existing Sidewalk/Curb	1	L.S.	$ 5,000.00	L.S.		$ 1,500
Repave Road for Access Aisle, Asphalt	100	sf	$ 16.80	sf		$ 1,680
Maintenance of Right-of-Way and Traffic Protection	1	L.S.	$ 2,000.00			$ 2,000
Parking Spot Line Painting, 2 spots, 1 ADA	1	ea	$ 500.00	ea		$ 500
Construct sloped sidewalk ramp, embedded warning strip	1	L.S.	$ 2,500.00	ea		$ 2,500
Modify chain-link fence	20	lf	$ 30.00	lf		$ 600
Construct 5' wide concrete walkway to dock access, broom finish	150	lf	$ 4.48	lf	32.06.10 10 0310	$ 672
Subtotal Cost for 3C-On Street Parking and Walkway						$ 10,452
3D-ADA Compliant, Fixed Fishing Pier						
Furnish and install pier, gangway, transition plates	1	L.S.	$ 47,000.00	L.S.	Vendor Quote	$ 47,000
Subtotal Cost for 3D-ADA Compliant, Fixed Fishing Pier						$ 47,000
Subtotal Cost for 3A-3D						$ 77,552
Contractor Overhead and Profit (21%)						$ 16,300
Total Cost for 3) Site Improvements-Kime Avenue Property						**$ 93,852**
Project Subtotal						**$ 314,760**
Engineering and Preparation of Contract Documents (15%)						**$ 47,200**
Project Contingency (20%)						**$ 72,400**
Total Project Cost						**$ 434,360**
Yearly Operation Costs						
Electrical Costs	1	L.S.	$ 1.00	L.S.		$ 3,500
Internet/Data Connections, Quantity 2	12	months	$ 100.00	ea		$ 2,400
Maintenance, repairs etc, 5% of Material Costs	5%					$ 9,813
Total Yearly Maintenance						**$ 15,713**

APPENDIX D-SUPPLEMENTARY DOCUMENTS AND DRAWINGS



PLAN

AS-BUILT

DESIGNED BY:	LB
CHECKED BY:	TC
DRAWN BY:	
COMPARED BY:	

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

GILBERT ANDERSON, P.E. – COMMISSIONER

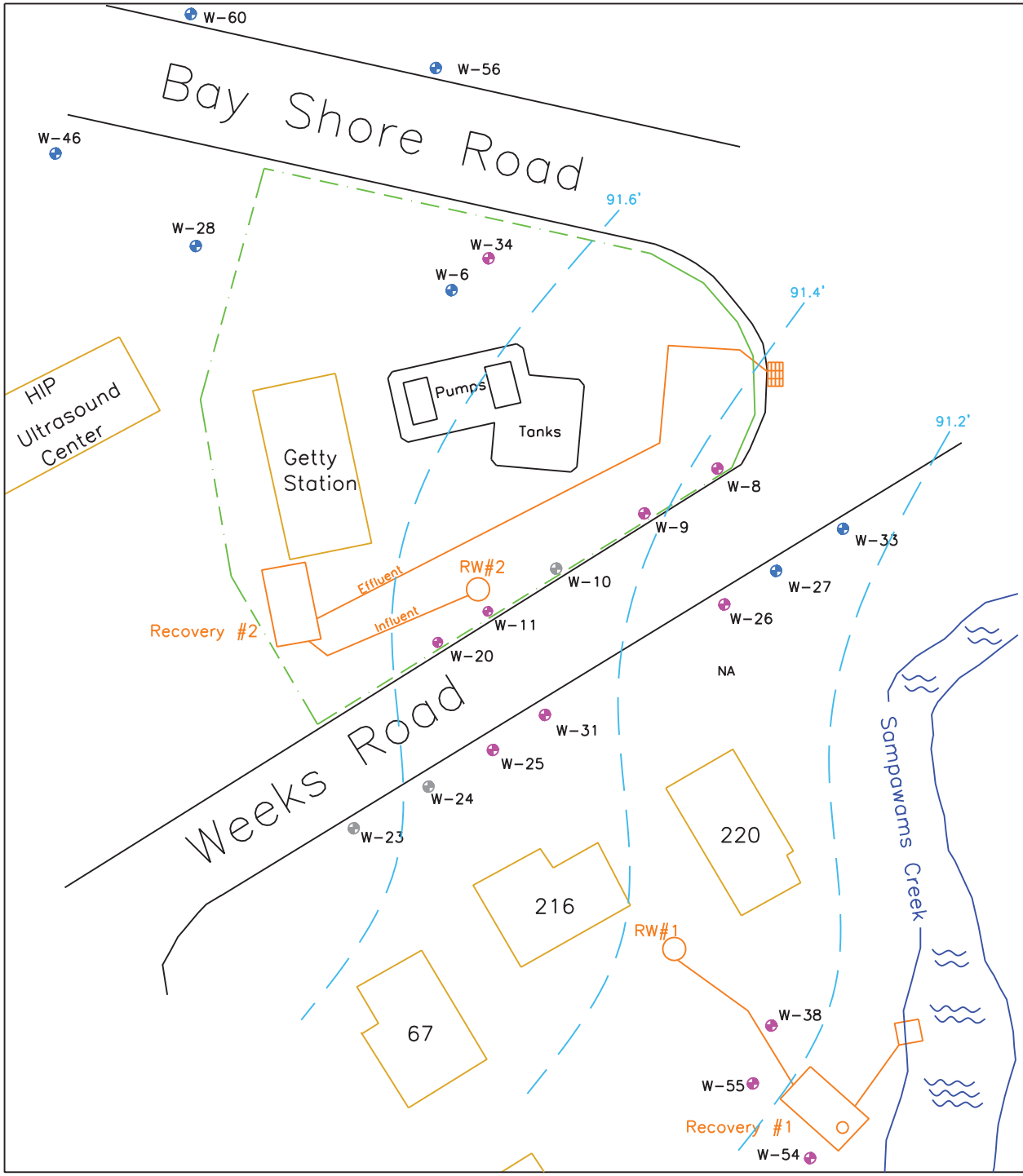
LKMA L. K. McLEAN ASSOCIATES, P.C.
CONSULTING ENGINEERS 437 SOUTH COUNTRY RD., BROOKHAVEN, NEW YORK

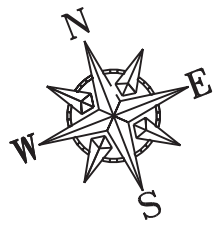
CR 57 – BAY SHORE RD. / HOWELLS RD.
FROM NYS 231 TO NYS 27

SURFACE SAND FILTER AT SAMPAWAMS CREEK CONSTRUCTION PLAN

PROJECT NO.	DATE	SHEET NO.
CP 5523.110	8-8-08	44 OF 134

Oct 02, 2014 – 09:14am
I:\Suffolk\10-60-301 – DPW-Reconstruction of CR57\Associates\CAD Drawings\As-Built Plans\44 S.F. @ SAMPAWAMS CREEK CONST – GRADING PLAN.dwg





GROUNDWATER DATA AS OF 2/13/09

WELL ID	RELATIVE GW ELEVATION	BTEX (ppb)	MTBE (ppb)	LNAPL (feet)
W-8	91.24	<MDL	<MDL	---
W-9	91.94	4,970	<MDL	---
W-11	91.64	2,921	<MDL	---
W-20	91.58	NA	NA	---
W-25	92.45	4.7	<MDL	---
W-26	91.47	678	<MDL	---
W-31	91.53	5,853	<MDL	---
W-34	91.85	0.59	<MDL	---
W-38	NA	NA	NA	---
W-54	91.06	379	<MDL	---
W-55	91.18	76.9	<MDL	---

<MDL – Method Detection Limit
NA – Well Not Accessible

Legend

- Property Line
- Monitoring Well
- Destroyed Well
- Reduced Well
- Approx. GW Contours

Tyree Environmental Corp
Phone: (631) 249-3150
208 Route 109
FARMINGDALE, NY 11735
Fax: (631) 249-3281

QUARTERLY MONITORING REPORT
SITE MAP

GETTY S/S# 535
310 Bayshore Road
North Babylon, New York

DRAWN BY:	R.C.
SPILL #:	85-3490
DATE:	12/15/97
SCALE:	1"=24'
CLIENT:	GETTY PROP.
PLATE:	QMR