

March 27, 2020

Ref: 26747.01

VIA ELECTRONIC MAIL

United States Army Corps of Engineers New York District Regulatory Branch Jacob K. Javits Federal Building 26 Federal Plaza, Room 1937 New York, New York 10278-0090

Re: Request for Approved Jurisdictional Determination

Tam O'Shanter Country Club

74 Fruitledge Road

Glen Head, New York 11545

To Whom it May Concern:

VHB Engineering, Surveying, Landscape Architecture and Geology, P.C. (VHB) is serving as environmental consultant to Titan Golf, LLC, which is requesting an Approved Jurisdictional Determination (JD) for five (5) artificial ponds ("Ponds 1 through 5") on the 151±-acre Tam O'Shanter Country Club property, located at the above-referenced address (the "subject property"). The subject property is owned and operated by Titan Golf, LLC.

Ponds 1 through 5 were delineated by VHB on February 12, 2020, based upon an evaluation of vegetation, soils and hydrology in accordance with the procedures set forth in the 1987 United States Army Corps of Engineers (USACE) Wetland Delineation Manual and the 2012 USACE Regional Supplement for the Northcentral and Northeast Region. Based on the information presented in the enclosed Wetland Delineation Report, Ponds 1 through 5 are isolated, artificial structures with no hydrological connection to other surface waters, wetlands or other waters of the United States, pending U.S. Army Corps of Engineers review and concurrence. Accordingly, please accept this correspondence as a formal request for an Approved JD for the subject property and Ponds 1 through 5.

100 Motor Parkway

Suite 350

Hauppauge, New York 11788

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For your records, contact information for the property owner are provided below:

Titan Golf, LLC 41 Bayard Street New Brunswick, New Jersey 08901 Attn: Mr. Robert Weiss

Thank you for your cooperation in this matter. Please feel free to contact me at your earliest convenience at 631.787.3400 or at dkennedy@vhb.com if you require any additional information to process this request.

Sincerely,

VHB Engineering, Surveying and Landscape Architecture, P.C.

David Kennedy, MS, PWS, CE Senior Environmental Scientist

Wetland Delineation Report

Tam O'Shanter Country Club

Village of Brookville, Town of Oyster Bay, Nassau County, New York

PREPARED FOR

Titan Golf, LLC c/o Mr. Robert Weiss 41 Bayard Street New Brunswick, NJ 08901

PREPARED BY



VHB Engineering, Surveying, Landscape Architecture and Geology, P.C. 100 Motor Parkway, Suite 350 Hauppauge, New York 11788

March 27, 2020



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1.0

Introduction

This Wetland Delineation Report has been prepared by VHB Engineering, Surveying, Landscape Architecture and Geology P.C. (VHB), for the 151±-acre Tam O'Shanter Country Club, located at 74 Fruitledge Road in the Village of Brookville, Town of Oyster Bay, Nassau County, New York (hereinafter, the "subject property") (see Appendix A, Figure 1). The subject property is identified on the Nassau County Land & Tax Map as Section 16 – Block C – Lots 386A, 386D, 386E, and 359. The subject property is owned by Titan Golf, LLC.

The subject property, with a topographic elevation ranging from approximately 200 to 290 feet above mean sea level (see Appendix A, Figure 3), is currently developed with a private country club consisting of an 18-hole golf course, clubhouse, tennis courts, swimming pool and associated amenities. As the majority of the subject property is occupied by the aforementioned golf course, the maintained turf grasses/landscaping of the fairways, roughs, tee boxes and putting greens are the predominant habitat at the subject property. The golf course is also improved with five artificial ponds, constructed for irrigation purposes and to serve as water hazards ("Ponds 1 through 5," See Appendix A, Figure 2). The boundaries of Ponds 1 through 5 were delineated by VHB on February 12, 2020.

This Wetland Delineation Report includes a description of existing conditions of the five ponds and the surrounding subject property, and provides a review of government agency maps and data pertaining to local surface waters and wetlands. Also included is a summary and supporting documentation for the delineation of the five ponds, as well as a justification for a proposed waters of the United States nonjurisdictional determination. This Wetland Delineation Report was prepared pursuant to the United States Army Corps of Engineers (USACE) guidance document entitled Checklist of Information Included with Requests for Jurisdictional Determinations. 1

¹ United States Army corps of Engineers. 2014. Checklist of Information Included with Requests for Jurisdictional Determinations. Available online ace,army.mil/Portals/37/docs/regulatory/Formdoc/JD%20Checklist.pdf Accessed February 13, 2020.

2.0

Background

Based on review of historical aerial photographs for the period from 1938 through 1957, the majority of the subject property was occupied by agricultural fields, and no ponds or other surface waters are evident (see historical aerial photographs in Appendix B). As visible in the 1966 aerial photograph, agricultural usage of the subject property had ceased between 1957 and 1966, and the agricultural fields visible in earlier aerial photographs had been converted to the existing 18-hole golf course. Ponds 3 and 4 are also visible in the 1966 aerial photograph. As evident in later aerial photographs, Pond 2 was constructed between 1966 and 1980, and Ponds 1 and 5 were constructed between 1994 and 2006.

According to golf course management, the five artificial ponds are utilized for irrigation purposes and as golf course water hazards. The pond bottoms are lined with an artificial, impermeable membrane and the ponds are periodically replenished with water from and on-site well. Although Ponds 1 through 5 are connected by a series of sub-grade pipes and pumps, the five ponds are otherwise isolated and do not drain offsite to other surface waters, wetlands or drainage networks. These conditions were confirmed in the field by VHB on February 12, 2020, when various pipe endings and artificial liners were observed at each of the five artificial ponds. Due to the presence of the artificial liners and golf course management practices, emergent, submergent and floating vegetation is virtually non-existent within the ponds. Consistent with the current golf course use, the vegetation surrounding the ponds is comprised of maintained turf grasses and associated golf course landscaping features. No streams, ditches, culverts or other potential connections to off-site surface waters wetlands or drainage networks were observed.

In summary, Ponds 1 through 5 are artificial features constructed between 1957 and 2006, in association with site usage as a golf course. As the primary purpose of the ponds is irrigation, the ponds are lined, periodically replenished with well water and are connected via sub-grade pipes and pumps. The five artificial ponds are otherwise isolated from other surface waters and wetlands in the general surrounding area.

Map Review and Wetland **Delineation**

Based on review of the New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper, Ponds 1 through 5 are not mapped and therefore are not regulated by the NYSDEC. 2 Further, there are no NYSDEC-mapped wetlands or surface waters within a 1,500-foot radius of the subject property. The nearest NYSDEC-regulated wetland is 3,146± feet to the northeast of the subject property (see Appendix A, Figure 4).

Ponds 1 through 5 are identified on the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps³ as PUBHx (Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated) features. As defined by the NWI, the latter "Excavated" modifier is indicative of basins or channels that were "excavated by humans." A summary of the five NWI features is provided on Table 1.

Table 1 – National Wetlands Inventory Summary

Pond Designation	Cowardin Class Code	Description	NWI Area (acres)*
Pond 1	PUBx	Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated	0.49
Pond 2	PUBx	Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated	0.46
Pond 3	PUBx	Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated	0.71
Pond 4	PUBx	Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated	1.48
Pond 5	PUBx	Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated	0.41



² New York State Department of Environmental Conservation. 2019. Environmental Resource Mapper. Available online at: https://gisservices.dec.ny.gov/gis/erm/. Accessed February 19, 2020.

³ United States Fish and Wildlife Service - National Wetlands Inventory Maps. 2019. Available online at:

https://www.fws.gov/wetlands/Data/Mapper.html. Accessed February 19, 2020.

4 United States Fish and Wildlife Service – National Wetlands Inventory. 2019. Wetland Classification Codes. Available online at: s/data/wetland-codes.html. Accessed February 19, 2020.

The nearest off-site NWI feature is located 1,183± feet to the northwest of Pond 1 (see Appendix A, Figure 4). The feature appears to be an isolated, decorative pond situated on a residential property.

There are no National Hydrography Dataset (NHD) streams located within 1,500 feet of the subject property. The nearest NHD stream is located 3,619± feet to the south of the subject property (see Appendix A, Figure 4).

Review of the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey map data indicates there are four distinct soil units at the subject property, as shown on Table 2.

Table 2 – NRCS Soil Summary

Map Unit Symbol	Map Unit Name	Acres / Percent	Hydric Rating
MkA	Montauk loam, 0 to 3 percent slopes	103.5 / 69.8	No
MkB	Montauk loam, 3 to 8 percent slopes	8.2 / 5.5	No
MkC	Montauk loam, 8 to 15 percent slopes	23.4 / 15.8	No
UnB	Urban land-Montauk complex, 3 to 8 percent slopes	11.6 / 7.8	Yes
W	Water	1.7 / 1.1	No

As depicted on Figure 5 of Appendix A, the soils in the vicinity of Ponds 1 through 5 are composed of Montauk loam, 0 to 3 percent slopes (MkA). This soil type is not included on the National List of Hydric Soils.⁵ As also shown on Figure 5, Ponds 2,3 and 4 are classified under the "Water" map unit.

As observed during the February 12, 2020 field survey, the vegetated upland areas of the subject property are comprised primarily of maintained/landscaped fairways, roughs and greens of the golf course. These habitats are representative of the Mowed Lawn and Mowed Lawn with Trees communities, as described in the New York Natural Heritage Program (NYNHP) publication "Ecological Communities of New York State" (ECNS).⁶ The golf course ponds are representative of the ECNYS Farm Pond/Artificial Pond communities.

Ponds 1 through 5 were delineated by VHB wetland scientists on February 12, 2020, based upon an evaluation of vegetation, soils and hydrology, conducted in accordance with the procedures set forth in the 1987 USACE Wetland Delineation

^{*}Pond areas as provided by the NWI.

[▼]

⁵ Natural Resources Conservation Service – United States Department of Agriculture. 2018. Hydric Soils of the United States. Available online at: https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/. Accessed February 19, 2020. ⁶ Edinger, G.J., Evans, D.J., Gebauer, S., Howard, T.G., Hunt, D.M., and Olivero, A.M. 2014. Ecological Communities of New York State. Second

Edinger, G.J., Evans, D.J., Gebauer, S., Howard, T.G., Hunt, D.M., and Olivero, A.M. 2014. Ecological Communities of New York State. Second Edition. A revised and expended edition of Carol Reschke's Ecological Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

Manual⁷ and the 2012 USACE Regional Supplement for the Northcentral and Northeast Region.⁸ During the delineation, numbered flags were placed around the pond boundaries. A summary of the wetland delineations is provided on Table 3.

Table 3 – Wetland Delineation Summary

Pond	Number of	Flag Designation	Area
Designation	Boundary Flags	Codes	(acres)
Pond 1	22	P1-100 to P1-121	0.54
Pond 2	20	P2-100 to P2-119	0.56
Pond 3	16	P3-100 to P3-115	0.81
Pond 4	24	P4-100 to P4-123	1.71
Pond 5	15	P5-100 to P5-114	0.46

For each of the five ponds, USACE Northcentral and Northeast Region wetland delineation data forms were completed for one wetland and one upland data plot (see Appendix C). The locations of the pond boundary flags were recorded with a global positioning system (GPS) unit in the field for placement on the site topographic survey (see Appendix D). Additionally, the GPS data was used to create individual Geographic Information System (GIS) maps showing the wetland boundary and the locations of the wetland and upland data plots for each pond (see Appendix A, Figures 6.1 through 6.5). Representative photographs of Ponds 1 through 5 and their associated data plots were taken at the time of the delineations (see Appendix E).

A summary of the delineations of Ponds 1 through 5, and other pertinent field observations, is provided below.

Pond 1

As noted during the delineation, the interior of Pond 1 is unvegetated and the pond bottom is lined with an impermeable membrane. Representative vegetation within the wetland data plot along the pond margin and is comprised of the upland (UPL) species hard fescue (Festuca trachyphylla) and the facultative upland (FACU) species chickweed (Stellaria media). In general, the pond margin is characterized by low species diversity and is dominated by maintained turf grasses, consistent with the subject property use as a golf course. The adjoining uplands are dominated by hard fescue and other turf grasses

Wetland soil profiles within Pond 1 exhibited layers featuring low chroma matrices (i.e., a chroma of 2 or less) measuring four inches or greater and starting within six inches of the soil surface, with distinct redox concentrations occurring in small quantities (i.e., 2% or more) along pore linings. These characteristics are indicative of wetland soil indicator S5: Sandy Redox, as described in the above-referenced USACE Regional Supplement.

⁷ Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

⁸ United States Army Corps of Engineers Engineer Research and Development Center. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0).

Observed wetland hydrology indicators for Pond 1 include a high water table at approximately 6 inches below the surface and soil saturation to within 4 inches of the surface in soil borings. Additional observed hydrology indicators include oxidized rhizospheres on living roots, and the geomorphic position of the pond within a depression surrounded by higher terrains (berms). No natural inlets or outlets (e.g., creeks, streams, etc.) occur between the pond and any off-site surface waters, wetlands or drainage networks. Artificial inlets and outlets (e.g., pipes, storm drains) were observed between Pond 1 and the other four artificial ponds at the subject property, consistent with conditions reported by golf course management.

According to the soils and hydrology observed during the wetland delineation, Pond 1 has features that are consistent with two of the three parameters required by the USACE wetland definition. The USACE wetland vegetation parameter was not met for Pond 1, likely as a result of the highly maintained nature of the pond and pond margin associated with site usage as a golf course. Given these conditions, as well as the observed wetland hydrology and soils along the pond edge, VHB determined that wetland vegetation would likely occur under natural/undisturbed conditions.

Pond 2

As noted during the delineation, the interior of Pond 2 is unvegetated and the pond bottom is lined with an impermeable membrane. Vegetation within the wetland data plot is along the pond margin and is comprised of the upland (UPL) species hard fescue (Festuca trachyphylla). In general, the pond margin is characterized by low species diversity and dominated by maintained turf grasses, consistent with the subject property use as a golf course. The adjoining uplands are dominated by hard fescue and other turf grasses.

Wetland soil profiles within Pond 2 exhibited layers featuring low chroma matrices (i.e., a chroma of 2 or less) measuring two inches thick and occurring entirely within six inches of the soil surface. These characteristics are indicative of wetland soil indicator F3: Depleted Matrix, as described in the above-referenced USACE Regional Supplement.

Observed wetland hydrology indicators for Pond 2 include a high water table at approximately 5 inches below the surface and soil saturation to the surface of the soil borings. Additional observed hydrology indicators include the geomorphic position of the pond within a depression surrounded by higher terrains (berms). No natural inlets or outlets (e.g., creeks, streams, etc.) occur between the pond and any off-site surface waters, wetlands or drainage networks. Artificial inlets and outlets (e.g., pipes, storm drains) were observed between Pond 2 and the other four artificial ponds at the subject property, consistent with conditions reported by golf course management.

According to the soils and hydrology observed during the wetland delineation, Pond 2 has features that are consistent with two of the three parameters required by the USACE wetland definition. The USACE wetland vegetation parameter was not met for Pond 2, likely as a result of the highly maintained nature of the pond and pond margin associated with site usage as a golf course. Given these conditions, as well as

the observed wetland hydrology and soils along the pond edge, VHB determined that wetland vegetation would likely occur under natural/undisturbed conditions.

Pond 3

As noted during the delineation, the interior of the Pond 3 is unvegetated and the pond bottom is lined with an impermeable membrane. Vegetation within the wetland data plot is along the pond margin and is comprised of the upland (UPL) species hard fescue (Festuca trachyphylla). In general, the pond margin is characterized by low species diversity and dominated by maintained turf grasses, consistent with the subject property use as a golf course. The adjoining uplands are dominated by hard fescue and other turf grasses.

Wetland soil profiles within Pond 3 exhibited layers featuring low chroma matrices (i.e., a chroma of 2 or less), with two percent or more of redox concentrations occurring as soft masses and along pore linings, measuring nine inches thick and occurring within six inches of the soil surface. These characteristics are indicative of wetland soil indicator S5: Sandy Redox, as described in the above-referenced USACE Regional Supplement.

Observed wetland hydrology indicators for Pond 3 include a high water table at approximately 6 inches below the surface and soil saturation to within 4 inches of the surface. Additional observed hydrology indicators include an oxidized rhizosphere on living roots and the geomorphic position of the pond within a depression surrounded by higher terrains (berms). No natural inlets or outlets (e.g., creeks, streams, etc.) occur between the pond and any off-site surface waters, wetlands or drainage networks. Artificial inlets and outlets (e.g., pipes, storm drains) were observed between Pond 3 and the other four artificial ponds at the subject property, consistent with conditions reported by golf course management.

According to the soils and hydrology observed during the wetland delineation, Pond 3 has features that are consistent with two of the three parameters required by the USACE wetland definition. The USACE wetland vegetation parameter was not met for Pond 3, likely a result of the highly maintained nature of the pond and pond margin associated with site usage as a golf course. Given these conditions, as well as the observed wetland hydrology and soils along the pond edge, VHB determined that wetland vegetation would likely occur under natural/undisturbed conditions.

Pond 4

As noted during the delineation, the interior of Pond 4 is unvegetated and the pond is lined with an impermeable membrane. Vegetation within the wetland data plot is along the pond margin and is comprised of the upland (UPL) species hard fescue (Festuca trachyphylla). In general, the pond margin is characterized by low species diversity and dominated by maintained turf grasses, consistent with the subject property use as a golf course. The adjoining uplands are dominated by hard fescue and other turf grasses.

Wetland soil profiles within Pond 4 exhibited a four-inch thick layer located entirely within the upper 12 inches of the soil profile, with a matrix value of 3, a chroma of 2, and 15 percent redox concentrations. These characteristics are indicative of wetland

soil indicator F6: Redox Dark Surface, as described in the above-referenced USACE Regional Supplement.

Observed wetland hydrology indicators for Pond 4 include a high water table at approximately 9 inches below the surface and soil saturation within 7 inches of the surface of the soil borings. Additional observed hydrology indicators include the geomorphic position of the pond within a depression surrounded by higher terrains (berms). No natural inlets or outlets (e.g., creeks, streams, etc.) occur between the pond and any off-site surface waters, wetlands or drainage networks. Artificial inlets and outlets (e.g., pipes, storm drains) were observed between Pond 4 and the other four artificial ponds at the subject property, consistent with conditions reported by golf course management.

According to the soils and hydrology observed during the wetland delineation, Pond 4 has features that are consistent with two of the three parameters required by the USACE wetland definition. The USACE wetland vegetation parameter was not met for Pond 4, likely as a result of the highly maintained nature of the pond and pond margin associated with site usage as a golf course. Given these conditions, as well as the observed wetland hydrology and soils along the pond edge, VHB determined that vegetation would likely occur under natural/undisturbed conditions.

Pond 5

Though the interior of the pond is unvegetated, scattered patches of emergent wetland vegetation was observed along the pond margin. Observed vegetation in these areas includes the obligate (OBL) wetland species yellow iris (*Iris pseudacorus*) and pickerelweed (*Pontederia cordata*). The facultative (FAC) species sweet pepperbush (*clethra alnifolia*), and facultative upland (FACU) species red fescue (*Festuca rubra*) and northern red oak (*Quercus rubra*) were also observed along the pond margin. Overall, the wetland plant community is characterized by low species diversity, consistent with the subject property use as a golf course and the disturbed surroundings of Pond 5. The adjoining uplands are dominated by the upland (UPL) species hard fescue (*Festuca trachyphylla*) and other golf course turf grasses. the facultative upland (FACU) species northern read oak (*Quercus rubra*) and flowering dogwood (*Cornus florida*) are also present.

Wetland soil properties within Pond 5 exhibited low chroma matrices and redoximorphic features within 8 inches of soil surface. The observed properties do not align with wetland soil indicators of the above-described USACE Regional Supplement for the Northcentral and Northeast Region, though this is believed to be due to a disturbed soil profile resulting from golf course landscaping practices.

Observed wetland hydrology indicators for Pond 5 include a high water table at approximately 6 inches below the surface. Additional observed hydrology indicators include the geomorphic position of the pond within a depression surrounded by higher terrains (berms). No natural inlets or outlets (e.g., creeks, streams, etc.) occur between the pond and other off-site surface waters, wetlands or drainage networks. Artificial inlets and outlets (e.g., pipes, storm drains) were observed between Pond 5 and the other four artificial ponds at the subject property, consistent with conditions reported by golf course management.

According to the vegetation and hydrology observed during the wetland delineation, Pond 5 has features that are consistent with two of the three parameters required by the USACE wetland definition. The USACE wetland soils parameter was not met for Pond 5, likely as a result of the highly maintained nature of the pond and pond margin associated with site usage as a golf course. Given these conditions, as well as the observe wetland hydrology and vegetation along the pond edge, VHB determined that wetland soils would likely occur under natural/undisturbed conditions.

Beyond the five ponds delineated by VHB, no evidence of other surface waters or wetlands was observed during the field survey. Moreover, beyond the interconnection of the five ponds via a series of sub-grade pipes and pumps, no surficial or subsurface connections between Ponds 1 through 5 and other surface waters, wetlands or drainage networks were observed in the field.

Summary and Proposed Non-Jurisdictional Determination Justification

Based on the information and supporting documentation presented in Sections 1.0 through 3.0 of this report, Ponds 1 through 5 are artificial features constructed between 1957 and 2006 as irrigation ponds and golf course water hazards. Moreover, no surficial or subsurface connections exists between the five ponds and other surface waters, wetlands or drainage networks.

Pursuant to the pre-2015 waters of the United States regulations currently in effect, VHB understands that jurisdictional determinations are made on a case-by-case basis based on pre-2015 Supreme Court decisions and USACE guidance documents. In Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers (the "SWANCC Decision," 2001), and Rapanos v. the United States (the "Rapanos Decision," 2006), the United States Supreme Court ruled that the USACE's jurisdiction over 'waters of the United States' under Section 404 of the Clean Water Act (CWA) does not extend to isolated wetlands. Further, the Supreme Court ruled that waters or wetlands that do not have a "significant nexus" to a traditional navigable waterway are isolated waters that should not be considered waters of the United States for the purposes of the CWA. Pursuant to the Rapanos Decision, a significant nexus exists when a wetland or waterbody, either by itself or in combination with other similar sites, significantly affects the physical, biological, and chemical integrity of a downstream navigable waterway. Significant nexus is further defined as "having a significant effect on the chemical, physical or biological integrity of an interstate water, its tributaries or adjacent wetlands."9

Based on the desktop review and field data presented in this report, Ponds 1 through 5 are isolated, artificial features that are connected to each other via subgrade pipes and pumps, but have no hydrological connection to other surface waters, wetlands, drainage networks or any waters of the United States. Accordingly, pursuant to the legal precedents of the SWANCC and Rapanos Decisions regarding isolated wetlands summarized above, it appears that the Ponds 1 through 5 would not be subject to

USACE jurisdiction under Section 404 of the CWA, due to their isolated status and artificial origin.

Notwithstanding the above, VHB is aware that on January 23, 2020, the U.S. Environmental Protection Agency (EPA) and the USACE finalized the Navigable Waters Protection Rule (NWPR) to define "Waters of the United States" and thereby establish federal regulatory authority under the Clean Water Act. VHB is further aware that the NWRP will go into effect 60 days after publication in the Federal Register. Pursuant to NWRP §323.3(b)(8), the following are not considered jurisdictional waters:

"Artificial lakes and ponds, including water storage reservoirs and farm, irrigation, stock watering, and log cleaning ponds, constructed or excavated in upland or in non-jurisdictional waters, so long as those artificial lakes and ponds are not impoundments of jurisdictional waters that meet the conditions of paragraph (c)(6)."

Based on the information presented in this report, Ponds 1 through 5 are isolated, artificial irrigation ponds that are not impoundments of jurisdictional waters. Accordingly, should the NWPR be in effect at the time that a jurisdictional determination is rendered for the subject property, it appears that the Ponds 1 through 5 would not be subject to USACE jurisdiction pursuant to NWRP §323.3(b)(8).

 $[\]label{thm:condition} $$\operatorname{Shanter Subdivision} \operatorname{ProjRecords} \operatorname{IDocs} 20200327_USACE\ JD\ Request\ Tam\ O'Shanter\ Delineation\ Report_20200309_FINAL.docx$



Appendix A





Source Info: ESRI (2019);

Nassau County, New York



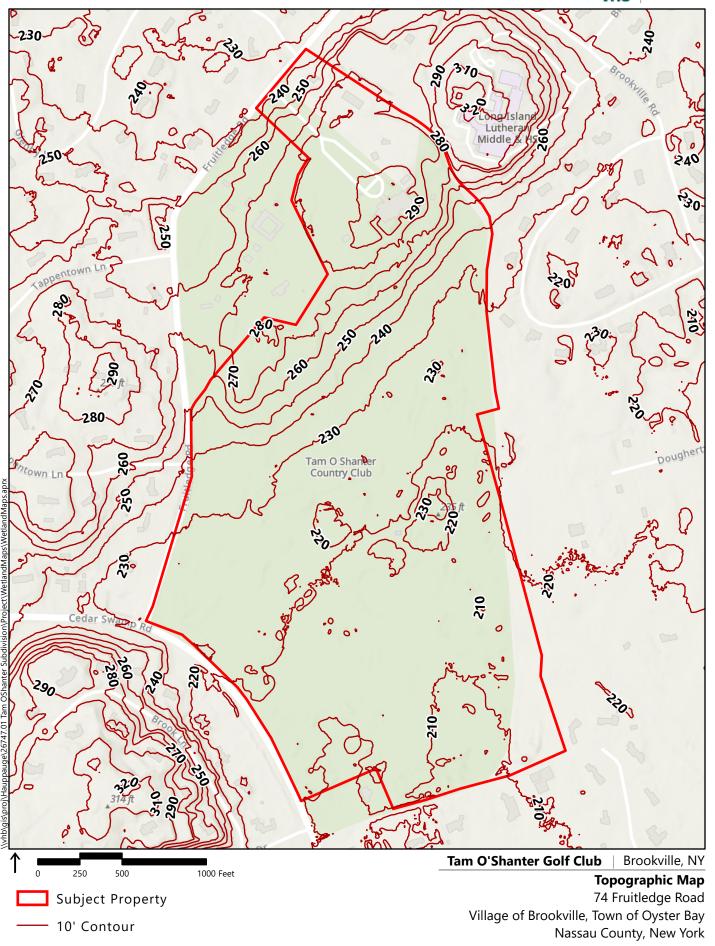


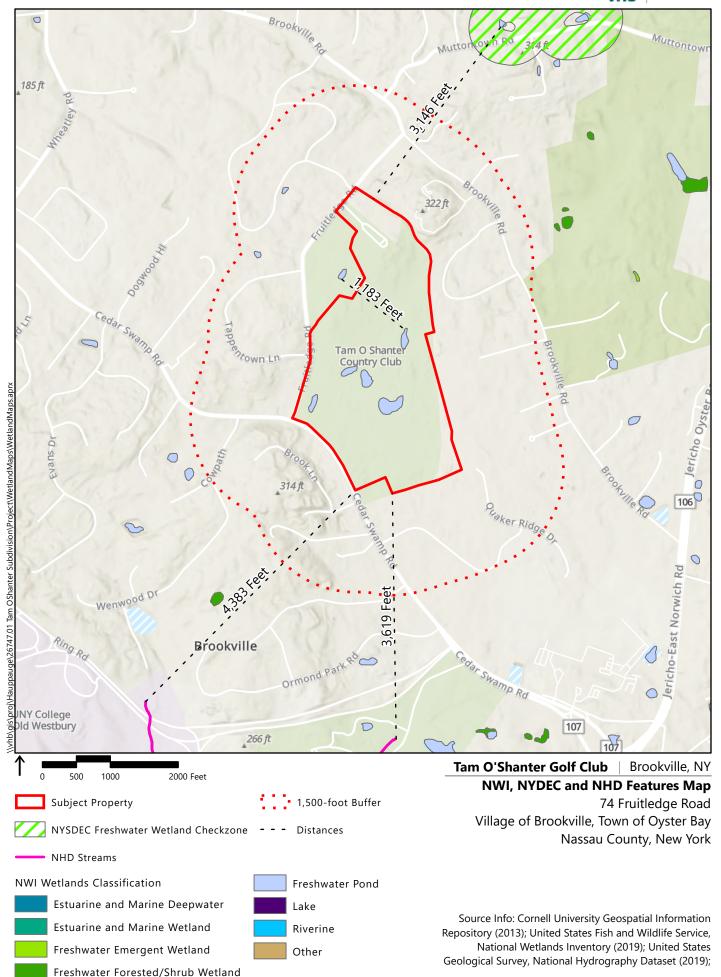
Pond Designation

Source Info: ESRI (2019);

Nassau County, New York

Village of Brookville, Town of Oyster Bay









NRCS Soils Mapping Unit

Nassau County, New York





—— Delineated Pond Boundary

Pond 1 Delineation Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York





—— Delineated Pond Boundary

Pond 2 Delineation Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York





Delineated Pond Boundary

Pond 3 Delineation Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York





Delineated Pond Boundary

Tam O'Shanter Golf Club Brookville, NY

Pond 4 Delineation Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York





—— Delineated Pond Boundary

Pond 5 Delineation Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York



Appendix B

Tam Oshanter Club

74 Fruitledge Road Brookville, NY 11545

Inquiry Number: 5418639.5

September 11, 2018

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

09/11/18

Site Name: Client Name:

Tam Oshanter Club Vanasse Hangen Brustlin, Inc.
74 Fruitledge Road 100 Motor Parkway, Ste. 135
Brookville, NY 11545 Hauppauge, NY 11788
EDR Inquiry # 5418639.5 Contact: Christopher Rooney



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2017	1"=750'	Flight Year: 2017	USDA/NAIP
2013	1"=750'	Flight Year: 2013	USDA/NAIP
2009	1"=750'	Flight Year: 2009	USDA/NAIP
2006	1"=750'	Flight Year: 2006	USDA/NAIP
1994	1"=750'	Acquisition Date: April 04, 1994	USGS/DOQQ
1985	1"=750'	Flight Date: March 16, 1985	USGS
1980	1"=750'	Flight Date: April 06, 1980	Aero
1966	1"=750'	Flight Date: February 23, 1966	USGS
1957	1"=750'	Flight Date: March 24, 1957	Jack
1953	1"=750'	Flight Date: December 26, 1953	USGS
1947	1"=750'	Flight Date: September 01, 1947	USDA
1938	1"=750'	Flight Date: August 03, 1938	USDA

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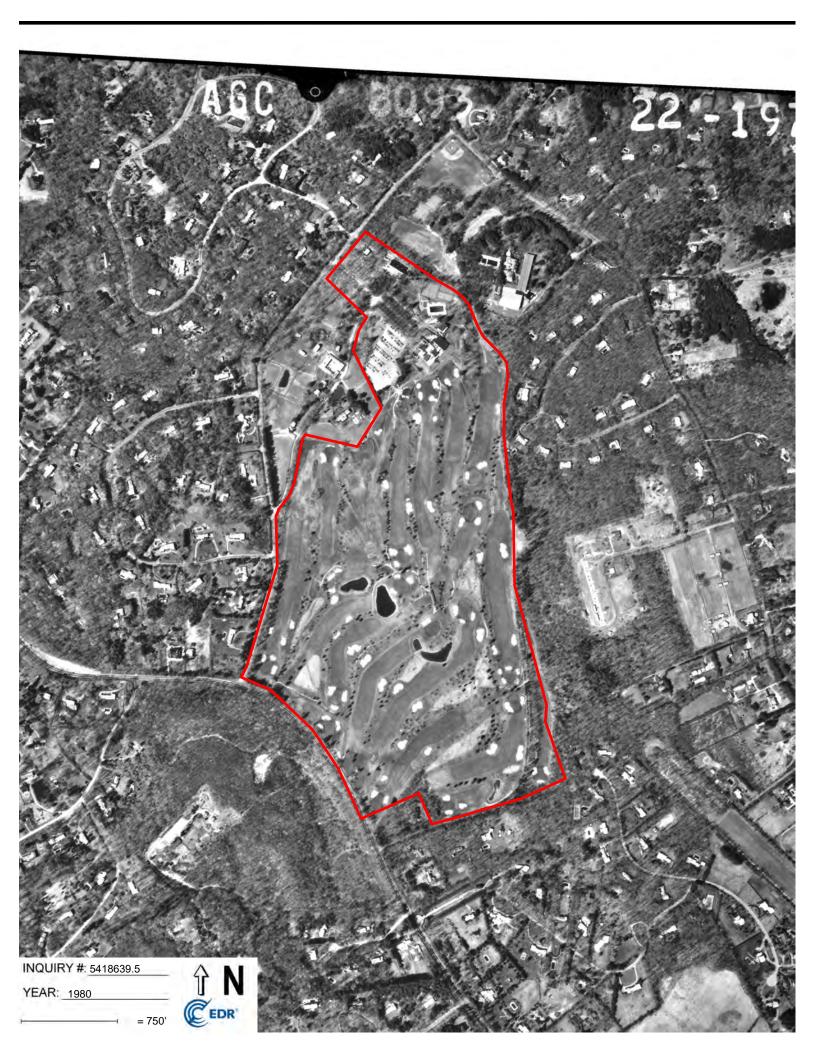




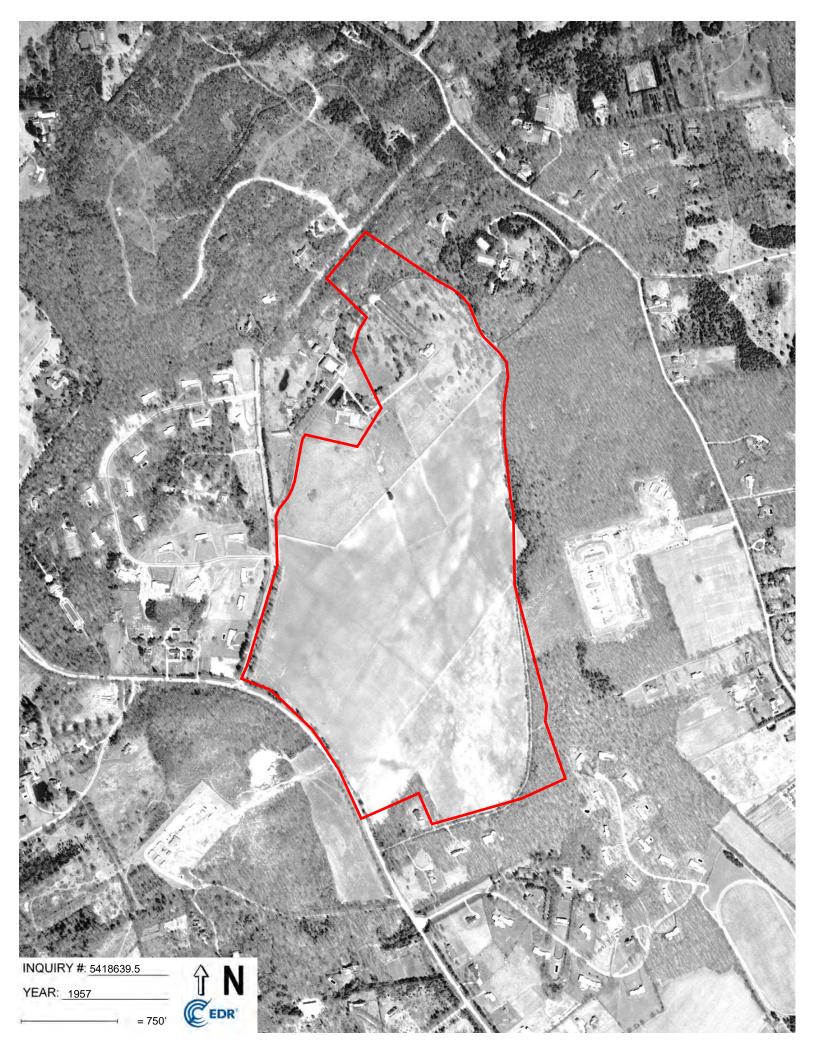




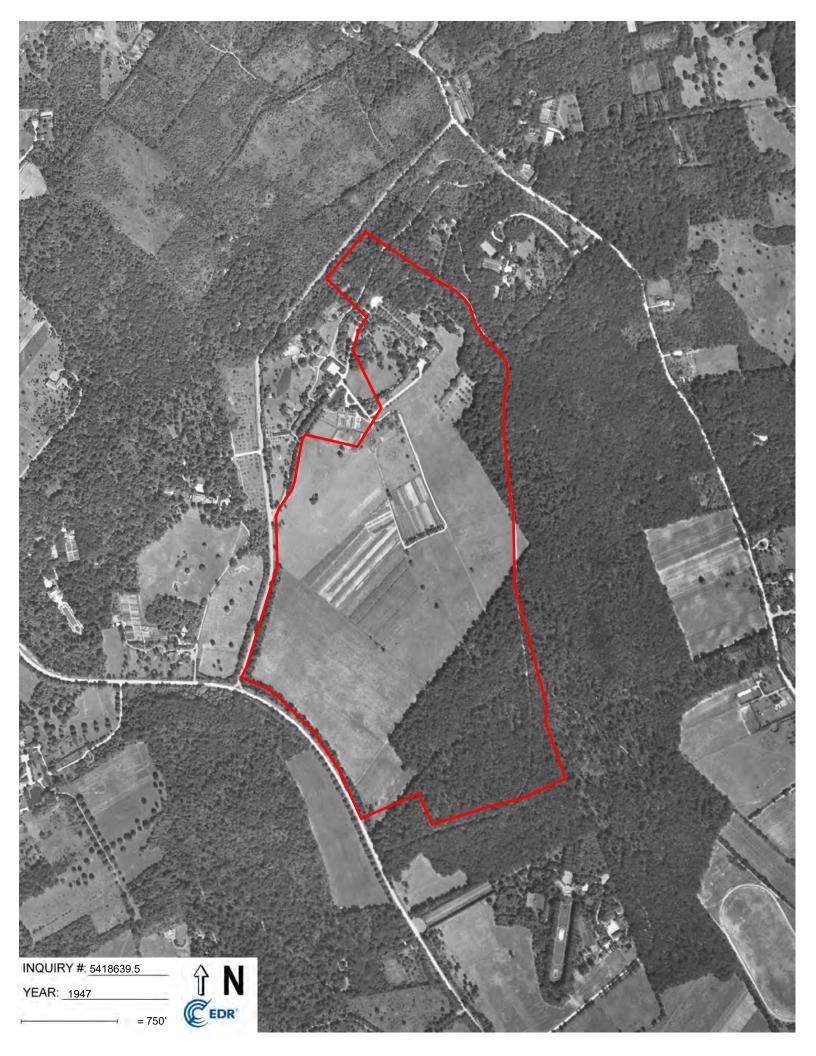


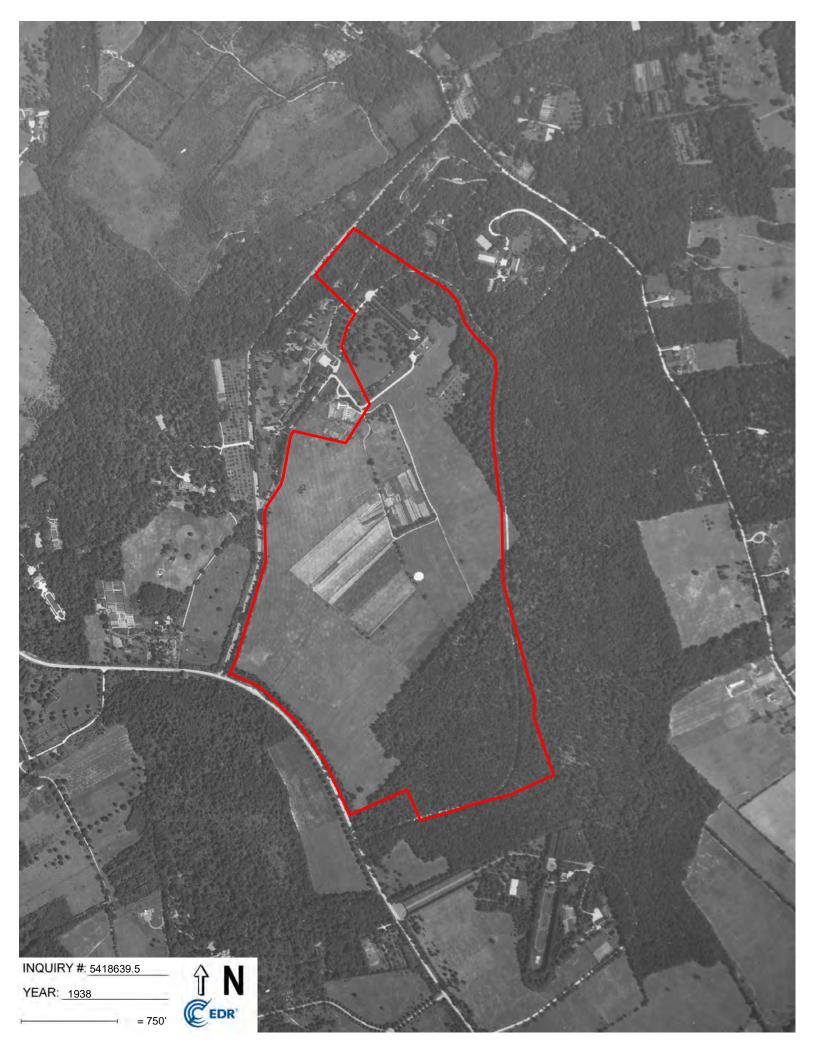














Appendix C

Commonwealth Comm	whb.	WETLAND D	ETERMINATION DA	TA FORM - N	Northcen	tral and I	Vorthe	ast Region	1	Pond 1-
	Project Site:	ject Site: Tam O'Shanter Golf Club City/County: Oyster Bay / Nassau						e: 2/12/2020		
Local relief focusion, common, mental. Fall Supple Supplement Supp	Applicant/Owner:	Tam O'Shanter Golf Club			State: N	Υ	San	mpling Point:	Pond 1-UP	
Labergoon (Life or MLRA): MLRA 1489. Lat 149.0172 Long. 7-255172 Datum CGS WCS 1984 of Life United Control of Life	Investigator(s):	D. Kennedy, C. Hinton		Section	on, Townsh	iip, Range: V	illage of B	Brookville, Nass	au County, N	Y
College Coll					of (concave, co					
Veclamatic Physical Conditions on the last stylical for this time of year? Yes Very Normal Corumbinace present? Veclamatic Physical Physical Conditions on the last stylical for fineded, epiding in Recedent and years and problematic? Remarks: Delatate/Gendescaped god course	시스(10) [전시] 사용하다 모드			at: 40.81272		Long:	73.55178			
Ver Normal Circumstances present? No				-0-7: V		O constant			NWI Clas	55:
ver Vegetation Yes						Remark	S:			
The Vegetation No						2 Rem	arke.	Disturbed/lands	scaped golf o	Ourse
SUMMARY OF FINDINGS - Attach site map showing sample point locations, transects, important features, etc. Volume Vo	A second control of the second second second		- 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					Distarbed/larids	scaped gon c	burse
No Strike Sample Area Within a Wetland? No	THE VEGETATION		, or my dronogy		, solici, ideic		iar is.			
No In This Sample Area Within a Wetland? No No No No No No No N	SUMMARY OF	FINDINGS - Attach s	ite map showing sa	ample point l	ocations	, transects	, impo	ortant feat	ures, etc	
Vetland Hydrology Present? Vo	Hydrophytic Vegeta	ation Present?	No					3	J. 75 Co.	
PAPOROLOGY	Hydric Soil Present	?	No			Is This	Sample	Area Within	a Wetland	1? No
Wetland Hydrology Indicators: (minimum of one is required; check all that apply) Wetland Hydrology Indicators (minimum of one is required; check all that apply) Surface Water (A1) Hydrogen Sulface May (B1) Water Staned Leaves (B9) Hydrogen Sulface May (B1) Worker Marks (B1) Prosence of Reduced Fron (C4) Soft-more Deposits (B2) Ondridge This (B1) Prosence of Reduced Fron (C4) Appl Mark or Kons (B4) Recent Iron Reduction in Titled Sols (C5) Iron Deposits (B3) Prosence of Reduced Fron (C4) Southed or Stressed Plants (D1) Iron Deposits (B3) Prosence of Reduced Fron (C4) Southed or Stressed Plants (D1) Iron Deposits (B3) Iron Marks (Water Present? Depth (inches): Worker (Water Present? No Wetland Hydrology Present? No Wetland Hydrolo	Wetland Hydrology	/ Present?	No							
Verland Hydrology Indicators: Secondary Indicators: Finite Secondary Indicators: Surface Water (A1) Water Stanted Leaves (R9) Delange Patterns (R10) Delang	Remarks:									
Verland Hydrology Indicators: Secondary Indicators: Finite Secondary Indicators: Surface Water (A1) Water Stanted Leaves (R9) Delange Patterns (R10) Delang										
Verland Hydrology Indicators: Secondary Indicators: Finite Secondary Indicators: Surface Water (A1) Water Stanted Leaves (R9) Delange Patterns (R10) Delang	HYDROLOGY									
Surface Water (A1)	2-200-720-2-4-7-10-	Indicators:					Second	lary Indicator	s (minimum	of two required)
Surface Water (A1) High Water Table (A2) Aquatic Fature (B13) Saurustion (A3) Mart Deposits (B15) Surface Water (A1) Mart Deposits (B15) Surface Water (B16) Sediment Deposits (B2) Coldized Rhistosphere on Living Roots (C3) Sediment Deposits (B2) Coldized Rhistosphere on Living Roots (C3) Sediment Deposits (B2) Coldized Rhistosphere on Living Roots (C3) Surried or Stressor Plants (C1) Surried or Stressor Plants (C2) Surried or Stressor Plants			ed; check all that apply)				-			2, 0, 2, 2, 2, 4, 1, 1, 2, 2, 7
High Water Table (A2) Saturation (A3) Main Deposits (B15) Water Marks (B1) Water Marks (B1) Water Marks (B1) Water Marks (B1) Presence of Reduced from (C4) Sediment Deposits (B2) Outliere Philosophers on Uniter Boots (C3) Sediment Deposits (B2) Orit Deposits (B3) Presence of Reduced from (C4) Agail Mater Cross (B4) Recent from Reducin in Titled Soils (C5) International Contact (B4) Recent from Reducin in Titled Soils (C5) International Contact (B4) Interna				eaves (B9)					-L. a	
Saluration (A3) Mart Deposits (B15) Dry-Season Water Table (C2) Craylish Province (C3) Sectioner (Deposits (B2) Outside Rhicospheres on Lining Roots (C3) Saluration Wishle on Aerial (C9) Sectioner (Deposits (B2) Presented Reduced from (C4) Stunted Strates (C1) Stunted Strates (C1) Shallow Acquitate (C3) Shallow Acquitate (C3) Shallow Acquitate (C3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Shallow Acquitate (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Acquitate (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Acquitate (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Shallow Acquitate (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Microtopographic Relief (D4) Microtopographic Relief (D4) FAC-Neutral Test (D5) Microtopographic Relief (D4) FAC-Neutral Test (D5) Microtopographic Relief (D4) Microtopographic Relief								the second section of the second		
Water Marks (R1)							$\overline{}$			2)
Drift Deposits (B3)	Water Marks	(B1)	Hydrogen Sulfide	Odor (C1)				Crayfish Burro	ws (C8)	
Algal Mat or Crust (8e) Recent Iron Reduction in Tilled Soils (C6) Shallow Againar (C7) Shallow Againar (C8) Shallow Againar (C					ots (C3)		$\overline{}$		100000000000000000000000000000000000000	(C9)
Iron Deposits (BS) Thin Muck Surface (C?) Shallow Aquitand (D3) Iron dation Visible on Aerial (B?) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Inches): NA Microtopographic Relief (D4) Inches (D5) Inches (D5	Drift Deposits	s (B3)	Presence of Redu	iced fron (C4)				Stunted or Stre	essed Plants	D1)
Immidiation Visible on Aerial (87) Other (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (88) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Surface Water Present? Depth (inches): NA Wetland Hydrology Present? No Depth (inches): NA Wetland Hydrology Must be present, unless control of the Carbon (inches): NA Wetland Hydrology Must be present, unless control of the Carbon (inches): NA Wetland Hydrology Must be present, unless control of the Carbon (inches): Na Wetland Hydrology Must be present, unless control of the Carbon (inches): Na Wetland Hydrology Must be present, unless control of the Carbon (inches): Na Wetland Hydrology Must be present, unless control of the Carbon (inches): Na Wetland Hydrology Must be present, unless control of the Carbon (inches): Na Wetland Hydrology Must be present, unless control of the Carbon (inche	Algal Mat or	Crust (B4)	Recent Iron Redu	ction in Tilled Soils	(C6)			Geomorphic Pe	osition (D2)	
Sparsely Vegetated Concave Surface (88)	Iron Deposits	(85)	Thin Muck Surfac	ce (C7)				Shallow Aquita	rd (D3)	
reled Observations: urface Water Present? Depth (inches): N/A Wetland Hydrology Present? Depth (inches): N/A Wetland Hydrology Present? No Wetland Hydrology	Inundation V	isible on Aerial (B7)	Other (Explain in	Remarks)				Microtopograp	ohic Relief (D	4)
Nater Table Present? Depth (inches): NIA Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Commarks: Other	Sparsely Vege	etated Concave Surface (B8)						FAC-Neutral Te	est (D5)	
Depth (Inches): NA	Field Observations:		2.2.2							
bescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Solicity Color Color	Surface Water Pres	sent?	Depth (inche	≘s): N/A						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Internal Content of the Content	Water Table Preser	nt?			500	Wetland	d Hydrold	ogy Present?		No
Temper Concentration, D=Depletion, RM=Reduced Matris, MS=Masked Sand Grains. Polyvalue Below Surface (SS) (LRR R, L, MLRA 149B)	Saturation Present	7	Depth (inche	es): N/A						
Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 10-12 10 YR 4/4 100 NA NA NA NA SILTY CLAY LOAM 12-22 10 YR 4/3 85 10 YR 5/6 15 C M FINE SANDY LOAM Type: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C-Concentration, NA	Other	(Describe to the depth ne	eded to document the inc	dicator or confirn	n the absen	ce of indicate	ors.)			
10-12 10YR 4/4 100 N/A N/A N/A N/A SILTY CLAY LOAM 12-22 10YR 4/3 85 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Depth	Matrix		Redox Features						
10-12 10YR 4/4 100 N/A N/A N/A N/A SILTY CLAY LOAM 12-22 10YR 4/3 85 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 10YR 5/6 15 C M FINE SANDY LOAM 12-22 10YR 4/3 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	(in) Color	(moist) %	Color (maist)	%	Type ¹	Loc2	Te	exture		Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. To cation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils 1: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MIRA 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) 3Indicators of hydrophytic vegetation and Dark Surface (S7) (LRR R, MLRA 149B) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No									_	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Indicators of hydrophytic vegetation and Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No	12-22 10	YR 4/3 85	10YR 5/6	15	С	М	FINE S	ANDY LOAM		
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Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No					of fruit it.					Acres de la constante de la co
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No					P MIRA 140	OR)	$\overline{}$			
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S6) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polycal Surface (S7) (LRR K, L) Polyvalue Below Surface (S1) Polycal Surface (S7) (LRR K, L) Polycal Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 1498) Mesic Spodic (TA6) (M						,,	$\overline{}$			
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No		1.0.000			(2.7	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1498) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1498) Wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Thick Dark Surface (A12) Redox Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1498) Mesic Spodic (TA6) (MLRA 149A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Wetland hydrophytic vegetation and wetland hydrophytic vegetation and disturbed or problematic. Hydric Soil Present? No										Total Control of the
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1498) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1498) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1498) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No										755 A 7 TO THE REAL PROPERTY.
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No		2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Contract of the contract of th				$\overline{}$			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? No				Control of the Contro						
Dark Surface (S7) (LRR R, MLRA 1498) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Other (Explain in Remarks) Hydric Soil Present? No	Sandy Redox	(S5)						Red Parent Ma	iterial (F21)	
Dark Surface (S7) (LRR R, MLRA 1498) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Other (Explain in Remarks) Hydric Soil Present? No	Stripped Mat	rix (S6)		Indicators of hyd	drophytic ve	getation and		Very Shallow D	ark Surface	TF12)
Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches):	Dark Surface	(S7) (LRR R, MLRA 1498)		wetland hydrology	must be pre	sent, unless		Other (Explain	in Remarks)	
Type: Hydric Soil Present? No Depth (inches):	harasay a same	rata as an		d	listurbed or p	oroblematic.		27.74		
Depth (inches):								والمراجع البا	Soil Dross	to No
-								Hydric	Juli Preser	INO NO
(scools)	Remarks:	-								

Buckle			
S.		-	
V	n		

Sampling Point: Pond 1-UP

	Absolute	Dom. Inc	licator	V110.	
Tree Stratum (Plot size: 30 ft)	% Cover	Sp? S	tatus	Dominance Test Worksheet:	
1. Prunus serotina	10.5	X F	ACU	# Dominants OBL, FACW, FAC: 0	(A)
2.					
3.			- 1	# Dominants across all strata: 2	(B)
4		The last			
5.				% Dominants OBL, FACW, FAC: 0.00%	(A/B)
6.		5			
7					
8.				Prevalence Index Worksheet:	
	10	= Total Cove	or	Total % Cover of: Multiply	Bu-
Sapling Stratum (Plot size: 30 ft				OBL 0 x1= 0	-7:
1.				FACW 0 x2 = 0	_
				FAC 0 x3 = 0	-
D-			_	FACU 1 x4= 4	_
			_	UPL 1 x5= 5	_
4			_		/p)
5.				Sum: 2 (A) 9	(B)
6			_	400	
7				Prevalence Index = B/A = 4.89	_
8.				N. V. T. S. V. S.	
	0	= Total Cove	er	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 15 ft)				Dominance Test is > 50%	
1.				Prevalence Index is <= 3.0	
2.				Problematic Hydrophytic Vegetation ³	explain)
3.				Rapid Test for Hydrophytic Vegetation	
4.				Morphological Adaptations	
5.				Indicators of hydric soil and wetland hydrology must be	nesent
6.				unless disturbed or problematic.	present,
7.					
8.				Definitions of Vegetation Strata:	
-	0	= Total Cove	er	Delinistry is at 1 superior state of the sta	
Herb Stratum (Plot size: 5 ft)	-	- Total cov.	-1	Tree - Woody plants, excluding woody vines, approxim	ately 20ft
	85.5	X	UPL	(6m) or more in height and 3in (7.6cm) or larger in diam	
	- 65.5		OFL	breast height (DBH).	
2.					
3.				Farling Mark Co.	
4			_	Sapling - Woody plants, excluding woody vines, appro (6m) or more in height and less than 3in (7.6cm) DBH.	ximately 20t
5			-	pany se mas can half the man to can have a man can be received as the	
6					
7.			-		
8.				Shrub - Woody plants, excluding woody vines, approxi 20ft (1 to 6m) in height.	mately 3 to
9.				20ft (1 to 6m) in neight.	
10.					
11.				Herb - All herbaceous (non-woody) plants, including he	
12.				vines, regardless of size. Includes woody plants, except the less than approximately 3ft (1m) in height.	woody vines.
	85	= Total Cove	er	less trial approximately Sit (111) in neight.	
Woody Vines (Plot size: 30 ft)	1				
1					
2.				Woody vine - All woody vines, regardless of height.	
3.			_		
5.			-		
-		= Total Cove		Hydrophytic Vegetation Present? No	
	- 0	= Total Cove	er	Hydrophytic Vegetation Present? No	-
Remarks: (If observed, list morphological adaptations below).					

PHOTO LOG Report Sampling Point Pond 1-UP

Photo Number	Pond 1-UP-1
Photo Location	Pond 1-UP
Direction	E
Date	02/12/2020

Description:

Pond 1 upland sampling point



whb.	WEIL	AND DETE	RMINATION DA				ortheast Region	Pond 1-WE
Project Site:	Tam O'Shanter G			City/County: C			e week and	Samp. Date: 2/12/2020
Applicant/Owner:	D. Kennedy, C. Hi			Easting	State: N		Sampling Point: lage of Brookville, Nassa	
Investigator(s): Landform (hillslope,		oeslope				onvex, none): Co	-	Slope (%): 1-2%
Subregion (LRR o		RA 149B	1:	at: 40.81271	comense, c	Long: -73		Datum: GCS WGS 1984
Soil Map Unit:	Montauk loam, 0 to			40.01271		201.61	5.00102	NWI Class: PUBHx
	logic conditions o	n the site typi	ical for this time of year	ir? Yes		Remarks	:	· · · · · · · · · · · · · · · · · · ·
Are Normal Circun	nstances present?	No If ne	eded, explain any ans	wers in Remarks:				
Are Vegetation Ye	es , Soil	No , or	Hydrology No	significantly	disturbed	? Rema	arks: Pond edge veg	etation is maintained golf course turf.
Are Vegetation No	, Soil	No , or	Hydrology No	naturally pro	blematic	? Rema	arks:	
SUMMARY OF	FINDINGS -	Attach site	map showing sa	mple point lo	cations	, transects	, important feat	ures, etc.
Hydrophytic Veget	tation Present?	-	No					
Hydric Soil Present	t?		Yes			Is This S	iample Area Within	a Wetland? Yes
Wetland Hydrolog	y Present?	- 3	Yes					
			ed of upland turf grasses retland vegetation would l					olf course. Given the observed wetland
HYDROLOGY								
Wetland Hydrolog	y Indicators:					_	Secondary Indicator	s (minimum of two required)
		is required; o	heck all that apply)				Surface Soil Cr	the Country of the Co
Surface Wat			Water-Stained Lea	ives (B9)		1 6	Drainage Patte	erns (B10)
X High Water	Table (A2)		Aquatic Fauna (B1	3)			Moss Trim Line	es (B16)
X Saturation (A3)		Marl Deposits (81	5)			Dry-Season Wa	ater Table (C2)
Water Mark	s (B1)		Hydrogen Sulfide	Odor (C1)			Crayfish Burro	ws (C8)
Sediment De				eres on Living Root	s (C3)			ble on Aerial (C9)
Drift Deposit		_	Presence of Redu					essed Plants (D1)
Algal Mat or	Crust (B4)		Recent Iron Reduc	tion in Tilled Soils (26)		X Geomorphic P	osition (D2)
Iron Deposit			Thin Muck Surface	The second second			Shallow Aquita	
	isible on Aerial (B7		Other (Explain in I	Remarks)			Microtopograp	
Sparsely Veg	getated Concave Sur	rface (B8)					FAC-Neutral Te	est (D5)
Field Observations			Control A					
Surface Water Pre			Depth (inche	-				
Water Table Prese Saturation Present	C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	X	Depth (inche Depth (inche			Wetland	Hydrology Present?	Yes
Remarks: Other SOIL Profile Description	o: (Describe to the	depth peede	I to document the ind	icator or confirm t	he absen	ce of indicato	rc)	
Depth	Matrix	Depth neede		Redox Features	iic abseli	ce of mulcato	13.1	
(in) Colo	r (moist)	%	Color (maist)	%	Type ¹	Loc2	Texture	Remarks
	YR 3/2	98	10YR 5/6	2	С	PL	LOAM	
8-11 10	YR 3/2	100		N/A	N/A	N/A	FINE SANDY LOAM	
11-18 10	YR 3/2	100		N/A	N/A	N/A	GRAVELLY SAND	
Type: C=Concentratio	n, D=Depletion, RM=F	Reduced Matrix, I	MS=Masked Sand Grains.		_		Location: PL=Pore Lining	, M=Matrix.
Hydric Soil Indicate	ors:						Indicators for Proble	ematic Hydric Soils ³ :
Histosol (A1			Dehumbio	Below Surface (S8)	unn n			LO) (LRR K, L, MLRA 149B)
Histic Epiped	The second second		MLRA 1		LINN N.			edox (A16) (LRR K, L, R)
Black Histic				Surface (S9) (LRR R,	MIRATA	ig)		eat or Peat (S3) (LRR K, L, R)
Hydrogen St				icky Mineral (F1) (LF		,6,		S7) (LRR K, L, M)
Stratified La				eyed Matrix (F2)	in n, L)			w Surface (S8) (LRR K, L)
The second second second	low Dark Surface (A	111		Matrix (F3)				ace (S9) (LRR K, L)
	urface (A12)	/		k Surface (F6)		1.5		se Masses (F12) (LRR K, L, R)
	y Mineral (S1)			Dark Surface (F7)				dplain Soils (F19) (MLRA 149B)
	d Matrix (S4)			pressions (F8)				TA6) (MLRA 144A, 145, 149B)
X Sandy Redox				V-30			Red Parent Ma	
Stripped Ma	N. C. C. C.			Indicators of hydro	phytic ver	retation and		Dark Surface (TF12)
	(S7) (LRR R, MLRA	1498)		etland hydrology m	ust be pre	sent, unless	Other (Explain	
Restrictive Layer (i	if observed)			dist	urbed or p	oroblematic.		
the second section of the	- comment							
Тур	e:						Hydric	Soil Present? Yes
Typ Depth (inches							Hydric	Soil Present? Yes

b

Sampling Point: Pond 1-WET

	Absolute	Dom. Indicat	or
Stratum (Plot size: 30 ft)	% Cover	Sp? Status	
			# Dominants OBL, FACW, FAC: 0 (A)
			# Dominants across all strata: 1 (B)
			% Dominants OBL, FACW, FAC: 0.00% (A/
			Prevalence Index Worksheet:
All the same of th	0	= Total Cover	Total % Cover of: Multiply By:
ng Stratum (Plot size: 30 ft)			OBL 0 x1= 0
			FACW 0 x2 = 0 FAC 0 x3 = 0
			FAC 0 x3 = 0 FACU 1 x4 = 4
		-	UPL 1 x5= 5
			Sum: 2 (A) 9 (B)
		$\overline{}$	
			Prevalence Index = B/A = 4.97
	0	= Total Cover	Hydrophytic Vegetation Indicators:
Stratum (Plot size: 15 ft)			Dominance Test is > 50%
			Prevalence Index is <= 3.0
			Problematic Hydrophytic Vegetation (explain)
			Rapid Test for Hydrophytic Vegetation
			Morphological Adaptations
			Indicators of hydric soil and wetland hydrology must be present,
			unless disturbed or problematic.
			Definitions of Vegetation Strata:
5 ft	0	= Total Cover	Term up to the second discount of the second
Stratum (Plot size: 5 ft) Festuca trachyphylla	98	X UPL	Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
Stellaria media	3	FACU	breast height (DBH).
Clonal di Modal			-
			Sapling - Woody plants, excluding woody vines, approximately 2
			(6m) or more in height and less than 3in (7.6cm) DBH.
			Shrub - Woody plants, excluding woody vines, approximately 3 t
			20ft (1 to 6m) in height.
		200	
			Herb - All herbaceous (non-woody) plants, including herbaceous
			vines, regardless of size. Includes woody plants, except woody vini less than approximately 3ft (1m) in height.
	101	= Total Cover	
dy Vines (Plot size: 30 ft)			
			- Wasak Adam of the Adam of th
			Woody vine - All woody vines, regardless of height.
			-
		7-1-1-0-1-1	Hydrophytic Vegetation Present?
	0		
	0	= Total Cover	Hydrophytic Vegetation Present? No

PHOTO LOG Report Sampling Point Pond 1-WET

Photo Number Pond 1-WET-1 Photo Location Pond 1-WET SW Direction 02/12/2020 Date

Description: Pond 1 wetland sampling point



Photo Number Pond 1-WET-2

Pond 1-WET Photo Location

Direction NA

Date 02/12/2020

Description: Wetland soil profile



whb.	WETLAND DE	TERMINATION D				Northeast Rep	gion Pond 2
Lolent Site.	m O'Shanter Golf Club		City/County				5amp, Date: 2/12/2020
applicant current	O'Shanter Golf Club		F	State: N			pint: Pond 2-UP
Investigator(s): D. K Landform (hillslope, terrao	(ennedy, C. Hinton e. etc.): Swell				np, Range: v	illage of Brookville, I	
Subregion (LRR or MLI			Lat: 40.81084	:1 (concave, co		73.55475	Slope (%): <1% Datum: GCS WGS 1984
	ntauk loam, 0 to 3 percent	slopes (MkA)	10.01004		Long.	3.33473	NWI Class:
Are climatic/hydrologic			/ear? Yes		Remark	S:	
Are Normal Circumstan		f needed, explain any a	A resident of the second of th	5:		-	
Are Vegetation Yes	, Soil No	or Hydrology No	significant	ly disturbed	? Rem	arks: Golf cours	se turf and landscaping
Are Vegetation No	, Soil No ,	or Hydrology No	naturally p	problematic	? Rem	arks:	
SUMMARY OF FIN	IDINGS - Attach si	ite map showing s	sample point l	ocations	, transects	, important f	eatures, etc.
Hydrophytic Vegetation	Present?	No			and the	COLUMN TARRA	
Hydric Soil Present?	.00	No			Is This	Sample Area W	ithin a Wetland? No
Wetland Hydrology Pres	ient?	No					
Remarks:							
HYDROLOGY							
Wetland Hydrology Indi	cators:	OVER DARKET A			-	Secondary Indic	cators (minimum of two required)
Primary Indicators (min	imum of one is require	d; check all that apply)				Surface So	oil Cracks (B6)
Surface Water (A1)	Water-Stained	Leaves (B9)			Drainage	Patterns (B10)
High Water Table	(A2)	Aquatic Fauna ((B13)			Moss Trin	n Lines (B16)
Saturation (A3)		Marl Deposits (2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3				on Water Table (C2)
Water Marks (B1)	No. 10	Hydrogen Sulfic					Burrows (C8)
Sediment Deposits			spheres on Living Ro	ots (C3)			n Visible on Aerial (C9)
Drift Deposits (B3)		Presence of Rec		ires			or Stressed Plants (D1)
Algal Mat or Crust Iron Deposits (B5)	(84)	Thin Muck Surf	duction in Tilled Soils	(CO)			hic Position (D2) Aquitard (D3)
Inundation Visible	on Aerial (B7)	Other (Explain i					ographic Relief (D4)
	d Concave Surface (B8)	outer (explain)	in nemotics)				ral Test (D5)
Field Observations:				- 1			20.7527607
Surface Water Present?		Depth (incl	hes): N/A				
Water Table Present?		Depth (incl		5 1	Wetland	Hydrology Prese	ent? No
Saturation Present?	- 4	Depth (incl	hes): N/A				
SOIL Profile Description: (Des	scribe to the depth nee	eded to document the i	ndicator or confirm	n the absen	ce of indicate	ors.)	
Depth	Matrix		Redox Features				
(in) Color (mo	ist) %	Color (maist)	%	Type ¹	Loc2	Texture	Remarks
0-7 10YR 4/-	4 100		N/A	N/A	N/A	FINE SANDY LOA	AM
7-19 10YR 4/-	4 100	1.2	N/A	N/A	N/A	GRAVELLY COAF	
						SANDY LOAM	
		. —				-	
		+		-			
Type: C=Concentration, D=D	epletion, RM=Reduced Mat	rix, MS=Masked Sand Grains				Location: PL=Pore	Lining, M=Matrix.
Hydric Soil Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
		241.4		44.41.1			
Histosol (A1)	2)		ue Below Surface (S	3) (LRR R,			ck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A Black Histic (A3)	2)		4 149B) irk Surface (S9) (LRR	D MIGA 146	ng)		irie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide	(44)		Mucky Mineral (F1)		,6)		ace (S7) (LRR K, L, M)
Stratified Layers (A			Gleyed Matrix (F2)	ichin, cj			Below Surface (S8) (LRR K, L)
Depleted Below D			ed Matrix (F3)				Surface (S9) (LRR K, L)
Thick Dark Surface			Dark Surface (F6)				ganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mine	eral (S1)	Deplete	ed Dark Surface (F7)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Mat			Depressions (F8)				odic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)						Red Parer	nt Material (F21)
Stripped Matrix (S	6)		Indicators of hy	drophytic veg	getation and	Very Shall	low Dark Surface (TF12)
Dark Surface (S7)	(LRR R, MLRA 1498)		wetland hydrology			Other (Ex	plain in Remarks)
Restrictive Layer (if obse	erved):			disturbed or p	oropiematic,		
Type:	CA-CK					Н	ydric Soil Present? No
Depth (inches):							The second secon
Pomarke:							

10	Section .		
-	- 10		
	$-\mathbf{v}$	n	0

Sampling Point: Pond 2-UP

			Absolute	Dom.	Indicator			
Tree Stratum	(Plot size:	30 ft	% Cover	Sp?	Status	Dominance Test Worksheet:		
A STATE OF THE STA	4000000					# Dominants OBL, FACW, FAC:	0	(A)
-						a bonniana bod, raciv, rac.		
-							1	(m)
3.						# Dominants across all strata:	1	(B)
4.						4		
5.						% Dominants OBL, FACW, FAC:	0.00%	(A/B)
1.00						1		
						Prevalence Index Worksheet:		
0.			0		-		TENER A	
	age of a	00.5		= Total C	over	Total % Cover of:	Multiply By	<u>/:</u>
	(Plot size:					OBL 0 x1=	0	_
1.						FACW 0 x 2 =	0	
2.						FAC 0 x3=	0	
						FACU 0 x4=	0	
						UPL 1 ×5=	5	
ė.						Sum: 1 (A)	5	(B)
-						Suiti(A)		
						AVAILABLE SERVICE		
7.						Prevalence Index = B/A =	5.00	20
8.								
			0	= Total C	over	Hydrophytic Vegetation Indicators	4	
Shrub Stratum	(Plot size:	15 ft		=		Dominance Test is > 50%		
						Prevalence Index is <= 3.0		
					_	Problematic Hydrophytic V	anatation1	-10/51
								plain)
3.						Rapid Test for Hydrophytic		
4.						Morphological Adaptations		
-						Indicators of hydric soil and wetland hydr	nlogy must be r	resent
-						unless disturbed or problematic.	ology mase see p	i cacing
7								
8.						Definitions of Vegetation Strata:		
٥						Definitions of Vegetation Strata.		
		- A	0	= Total C	over	Employed and the second of		W. Charles
Herb Stratum	(Plot size:	5 ft)				Tree - Woody plants, excluding woody vir		
1. Festuca trac	chyphylla		85.5	X	UPL	(6m) or more in height and 3in (7.6cm) or breast height (DBH).	larger in diamet	erat
2.								
4.						Sapling - Woody plants, excluding wood	v vines, approxim	mately 20ft
5.					_	(6m) or more in height and less than 3in (7		
-								
6.					_			
7.						Control of the Contro		
8.						Shrub - Woody plants, excluding woody	vines, approxim-	ately 3 to
9.						20ft (1 to 6m) in height.		
10								
11						Herb - All herbaceous (non-woody) plant	s, including her	baceous
12.						vines, regardless of size. Includes woody p	lants, except wo	
				= Total C		less than approximately 3ft (1m) in height	e e	
Germanian a	14-4-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	20.6	85	= Total C	over			
Woody Vines	(Plot size:	30 ft						
1.	200							
						Woody vine - All woody vines, regardle	ss of height.	
20								
5.								
			0	Total	en la u	Under the Verstation Bearing	No	
			- 0	= Total C	over	Hydrophytic Vegetation Present?		-
6 4 7 4 6 7 1	i fee	to local and the	A .					
Remarks: (If observ	ved, list morphologica	al adaptations below	/)-					

PHOTO LOG Report Sampling Point Pond 2-UP

Photo Number	Pond 2-UP-1
Photo Location	Pond 2-UP
Direction	s
Date	02/12/2020
Description:	

Pond 2 upland sampling point



whb.	WET	AND DETE	ERMINATION DATA	FORM - N	orthcen	itral and N	lortheast R	legion	Pond
Project Site:	Tam O'Shanter			City/County:			- 1		Date: 2/12/2020
Applicant/Owner: Investigator(s):	Tam O'Shanter G D. Kennedy, C. H			Eastin	State: N		-	e, Nassau County	
Landform (hillslope, t	-	Bench				onvex, none): U			2 (%); <1%
Subregion (LRR or	9 37 37 71	LRA 149B	Lat:	40.81086	Jacobson and an	Long: -7			itum: GCS WGS 1984
Soil Map Unit:	Montauk loam, 0					_			Class: PUBHx
Are climatic/hydrol	ogic conditions	on the site typ	ical for this time of year?	Yes		Remark	S:		-
Are Normal Circum	stances present	No If n	eeded, explain any answe						
Are Vegetation Yes			Hydrology No	significantly				edge vegetation is	maintained golf course to
Are Vegetation No	, Soil	No , or	Hydrology No	naturally pr	oblematic	? Rem	arks:		
SUMMARY OF	FINDINGS -	Attach site	map showing sam	ple point lo	cations	, transects	, importan	t features, e	tc.
Hydrophytic Vegeta			No						
Hydric Soil Present	?		Yes			Is This !	Sample Area	Within a Wetla	and? Yes
Wetland Hydrology	Present?	- 3	Yes						
			sed of upland turf grasses tha wetland vegetation would like					as a golf course.	Given the observed wetle
HYDROLOGY									
Wetland Hydrology	Indicators:						Secondary In	dicators (minim	um of two required)
Primary Indicators ((minimum of one	e is required;	check all that apply)				Surface	e Soil Cracks (B6)	
Surface Water			Water-Stained Leave	s (B9)				ge Patterns (B10)	
X High Water T		-	Aquatic Fauna (B13)					rim Lines (B16)	0.1.0
X Saturation (A	The state of the s	- 1	Marl Deposits (B15)	201001				ason Water Table	(C2)
Water Marks		19	Hydrogen Sulfide Od		1-1001			h Burrows (C8)	-i-1 (co)
Sediment Dep Drift Deposits		-	Oxidized Rhizosphere Presence of Reduced		(3)(3)			tion Visible on Ae d or Stressed Plar	
Algal Mat or 0		7	Recent Iron Reduction		(C6)			orphic Position (D	
Iron Deposits		- 0	Thin Muck Surface (C		(00)			v Aquitard (D3)	-,
	isible on Aerial (B7) -	Other (Explain in Ren					opographic Relief	(D4)
Sparsely Vege	etated Concave Su	rface (B8)					FAC-Ne	eutral Test (D5)	3.50
Field Observations:									
Surface Water Pres	ent?		Depth (inches):	N/A					
Water Table Preser	nt?	Х	Depth (inches):	5		Wetland	Hydrology Pre	esent?	Yes
Saturation Present	-	X	Depth (inches):	Surface					
Remarks: Other									
	(Describe to the	depth neede	d to document the indica	tor or confirm	the absen	ce of indicate	ors.)		
Depth	Matrix		Re	dox Features					
	(moist)	%	Color (maist)	%	Type ³	Loc2	Texture		Remarks
	'R 2.5/2	100		N/A	N/A	N/A	SILT LOA		
	YR 3/1 YR 3/1	100		N/A N/A	N/A N/A	N/A N/A	SANDY CL		
5-10 7.5	11.3/1	100		N/A	N/A	IN/A	SANDY LO		
Type: C=Concentration	D=Denletion RM=	Reduced Matrix	MS=Masked Sand Grains.	_	_		7 ocation: PI=Po	ore Lining, M=Matri:	
Hydric Soil Indicato	TARREST AND TO A	neogrea manny	ma-maned sure strains					Problematic Hy	
	, , ,		24520		1.41.1		Y	VARIATION A	7
Histosol (A1)	- Aint			low Surface (S8)	(LRR R,			luck (A10) (LRR K	
Black Histic (A			MLRA 149	rface (S9) (LRR F	NAIGA 140	na)		Prairie Redox (A16	t (S3) (LRR K, L, R)
Hydrogen Sul				y Mineral (F1) (I		,6)		urface (S7) (LRR K	
Stratified Lay	A CAN A CO.		Loamy Gleye					lue Below Surface	
	ow Dark Surface (1111	X Depleted Ma					ark Surface (S9) (L	
Thick Dark Su			Redox Dark S						(F12) (LRR K, L, R)
Sandy Mucky	Mineral (S1)		Depleted Dar	rk Surface (F7)			Piedme	ont Floodplain Soi	ils (F19) (MLRA 149B)
Sandy Gleyed	Matrix (S4)		Redox Depre	ssions (F8)			Mesic	Spodic (TA6) (MLI	RA 144A, 145, 149B)
Sandy Redox								rent Material (F2	
Stripped Mat		4577		dicators of hyd		The same of the same of the same of		nallow Dark Surfa	
Dark Surface	(S7) (LRR R, MLRA	1498)	wet	land hydrology			Other	(Explain in Reman	ks)
Restrictive Layer (if	observed):			di	sturped or p	oroblematic.			
Type								Hydric Soil Pres	sent? Yes
Depth (inches)								1	

Vhb	Samplin
VIII.	

ng Point: Pond 2-WET

/Other size	30 ft	7	Absolute % Course	Dom.	Indicator	Sandania Tan Wadahara
(Plot size:	30 10		% Cover	- sbi	Status	Dominance Test Worksheet: # Dominants OBL, FACW, FAC: 0 (A)
				_		# Dominants OBL, FACW, FAC: 0 (A)
				_		# Dominants across all strata: 1 (B)
				_	$\overline{}$	TO SOME TO SELECT SELEC
				_		% Dominants OBL, FACW, FAC: 0.00% (A/B)
				_		(42)
			_	_		
						Prevalence Index Worksheet:
			0	= Total	Cover	Total % Cover of: Multiply By:
(Plot size:	30 ft	1				OBL 0 x1= 0
						FACW 0 x 2 = 0
						FAC 0 x3 = 0
						FACU 0 x 4 = 0
						UPL 1 x5= 5
						Sum: 1 (A) 5 (B)
				_		
						Prevalence Index = B/A = 5.00
			0	= Total	Cover	Hydrophytic Vegetation Indicators:
						Dominance Test is > 50%
						Prevalence Index is <= 3.0
						Problematic Hydrophytic Vegetation (explain)
						Rapid Test for Hydrophytic Vegetation
						Morphological Adaptations
						Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				_		uness-disturbed of problematic,
				_		Definitions of Vegetation Strata:
				= Total	Cover	Delimino di Vegenno i Stant.
(Plot size:	5 ft)		4 1 1 1 1 1	2000	Tree - Woody plants, excluding woody vines, approximately 20ft
			98	X	UPL	(6m) or more in height and 3in (7.6cm) or larger in diameter at
						breast height (DBH).
						Sapling - Woody plants, excluding woody vines, approximately 200
				-		(6m) or more in height and less than 3in (7.6cm) DBH.
						Shrub – Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
						20tt (1 to om) in neight.
						and the fact of the state of th
				_		Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines
						less than approximately 3ft (1m) in height.
/place=	30 ft	1	98	= Total	Cover	
and the same of the						
				_		Woody vine - All woody vines, regardless of height.
				_		VYCOUTY WITE - All Woody Villes, regalatess of neight.
				_		
			0	= Total	Cover	Hydrophytic Vegetation Present? No
			9	TOTAL	- Luvei	
ved, list morpholog	ical adantati	ons helow)				
ACCUMENT THROUGHOUSE	irai anahiati	ons below/.				
and the second second			landana 1			th air-
g the pond edge is co		and turf grasses that are egetation would likely occ				th site use as a golf course. Given the observed wetland
	(Plot size:	(Plot size: 5 ft hyphylla 5 ft (Plot size: 5 ft 5 ft	(Plot size:	(Plot size:	(Plot size:	(Plot size:

PHOTO LOG Report Sampling Point Pond 2-WET

Photo Number Pond 2-WET-1

Photo Location Pond 2-WET

Direction N

02/12/2020

Date

Description:

Pond 2 wetland sampling point



Photo Number Pond 2-WET-2

Photo Location Pond 2-WET

Direction NA

Date 02/12/2020

Description: Wetland soil profile



whb.	WETLAND D	ETERMINATION DA				ortheast	Region	Pond	
Project Site:					City/County: Oyster Bay / Nassau				
Applicant/Owner:			F	State: NY			g Point: Pond		
Investigator(s): Landform (hillslope, to	D. Kennedy, C. Hinton				nvex, none): Fla		ville, Nassau Cou		
Subregion (LRR or			Lat: 40.81037	er (concave, co	Long: -7			lope (%): <1% Datum: GCS WGS 1984	
Soil Map Unit:	Montauk loam, 0 to 3 percen		40.01037		Long7	3.33304	NI NI	WI Class:	
	ogic conditions on the site		ear? Yes		Remarks	:			
		If needed, explain any ar		5:					
Are Vegetation Yes	s , Soil No	, or Hydrology No	significant	tly disturbed	? Rema	arks: Golf	course turf and l	andscaping	
Are Vegetation No	, Soil No	, or Hydrology No	naturally	problematic?	Rema	arks:			
SUMMARY OF	FINDINGS - Attach	site map showing s	ample point	locations,	transects	, importa	nt features	, etc.	
Hydrophytic Vegeta		No			JEGIV C	on the part	LINE FELD	0.0004	
Hydric Soil Present?		No			Is This S	ample Area	Within a W	etland? No	
Wetland Hydrology	Present?	No							
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators:					Secondary I	ndicators (mir	nimum of two required)	
Primary Indicators ((minimum of one is requir	ed; check all that apply)				Surfa	ce Soil Cracks (E	86)	
Surface Water	r (A1)	Water-Stained L	eaves (B9)			Drain	age Patterns (B	(10)	
High Water Ta	able (A2)	Aquatic Fauna (E	B13)			Moss	Trim Lines (B16	5)	
Saturation (A	3)	Marl Deposits (B	315)			Dry-S	eason Water Ta	able (C2)	
Water Marks	DOOM UT	Hydrogen Sulfid					ish Burrows (C8		
Sediment Dep			pheres on Living Ro	oots (C3)			ation Visible on		
Drift Deposits		Presence of Red		i. iees			ed or Stressed I		
Algal Mat or 0		Thin Muck Surfa	luction in Tilled Soil	S (C6)			norphic Positior ow Aquitard (D:		
Iron Deposits	isible on Aerial (B7)	Other (Explain in					otopographic Re		
	etated Concave Surface (B8)	Other (Explain)	Thematks)				Neutral Test (DS		
Field Observations:									
Surface Water Pres		Depth (inch	nes): N/A						
Water Table Presen	nt?	Depth (inch	(10 P	* H			resent?	No	
Saturation Present?	1	Depth (inch	nes): N/A						
	(Describe to the depth ne	eeded to document the in			ce of indicato	rs.)			
Depth	Matrix		Redox Features						
	(moist) %	Color (maist)	%	Type'	Loc2	Textur		Remarks	
0-19 10Y	/R 3/3 85	10YR 5/6	15	С	M	CLAY LC	AM		
		80							
							- 2		
Type: C=Concentration	, D=Depletion, RM=Reduced Ma	atrix, MS=Masked Sand Grains.				Location: PL=	Pore Lining, M=M	latrix.	
Hydric Soil Indicato	rs:					Indicators for Problematic Hydric Soils ³ :			
Histosol (A1)		Polyvalu	e Below Surface (S	8) (LRR R,		2 cm	Muck (A10) (LR	RR K, L, MLRA 149B)	
Histic Epipedo	on (A2)	MLRA	1498)			Coast	Prairie Redox ((A16) (LRR K, L, R)	
Black Histic (A	43)	Thin Dar	rk Surface (S9) (LRR	R, MLRA 149	В)	5 cm	Mucky Peat or	Peat (S3) (LRR K, L, R)	
Hydrogen Sul	fide (A4)	Loamy N	Mucky Mineral (F1)	(LRR K, L)		Dark	Surface (S7) (LF	R K, L, M)	
Stratified Laye	ers (AS)	Loamy G	Sleyed Matrix (F2)			Polyv	alue Below Sur	face (S8) (LRR K, L)	
Depleted Beld	ow Dark Surface (A11)	Depleted	d Matrix (F3)			Thin	Dark Surface (S	9) (LRR K, L)	
Thick Dark Su			ark Surface (F6)				and the second second	sses (F12) (LRR K, L, R)	
Sandy Mucky			d Dark Surface (F7)	Y'				Soils (F19) (MLRA 149B)	
Sandy Gleyed		Redox D	epressions (F8)					MLRA 144A, 145, 149B)	
Sandy Redox			Y Colombia	200	vitation of		Parent Material		
Stripped Mate Dark Surface	rix (56) (S7) (LRR R, MLRA 1498)		Indicators of hy wetland hydrology				Shallow Dark St r (Explain in Rer	The state of the s	
B1 - 133 - 13	T. S. S.			disturbed or p					
Restrictive Layer (if Type							Hydric Soil I	Present? No	
Depth (inches)							riyuric soil i	INU INU	
Remarks:	-								

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Vhb	Sam

Sampling Point: Pond 3-UP

Tree Stratum (Plot size:)	Absolute	Dom. Indicator	
	% Cover	Sp? Status	Dominance Test Worksheet:
			# Dominants OBL, FACW, FAC: 0 (A)
2.			
3:			# Dominants across all strata: 1 (B)
4.			
5.			% Dominants OBL, FACW, FAC: 0.00% (A/B)
6.		,	
7.			
8.			Prevalence Index Worksheet:
	0	= Total Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size: 30 ft			OBL 0 x1= 0
1.			FACW 0 x 2 = 0
2.			FAC 0 x3 = 0
3.			FACU 0 x4= 0
4_			UPL 1 x5= 5
5.			Sum: 1 (A) 5 (B)
6.			
7.			Prevalence Index = B/A = 5.00
8.			- contractor - con -
	0	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 ft)	-		Dominance Test is > 50%
1.			Prevalence Index is <= 3.0
2			Problematic Hydrophytic Vegetation ¹ (explain)
3.			Rapid Test for Hydrophytic Vegetation
			Morphological Adaptations
13.			Indicators of hydric soil and wetland hydrology must be present,
6			unless disturbed or problematic,
7.			- D. F. W
8		The state of the s	Definitions of Vegetation Strata:
5 ft	0	= Total Cover	T-100 114 11 11 11 11 11 11 11 11 11 11 11 11
Herb Stratum (Plot size: 5 ft)	25.5	V UD	Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
Festuca trachyphylla	85.5	X UPL	breast height (DBH).
2.			-
3.		=	
4.			 Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
5			- I was a major to the second second second second
6.			
7.			- In the second second
8			Shrub – Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
9			- Zott (1 to oth) in height.
10.			
11.			Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. (ncludes woody plants, except woody vines,
12.			 less than approximately 3ft (1m) in height.
	85	= Total Cover	
Woody Vines (Plot size: 30 ft)			
1			
2.			Woody vine - All woody vines, regardless of height.
3.			
3			
4.	0	= Total Cover	Hydrophytic Vegetation Present? No

PHOTO LOG Report Sampling Point Pond 3-UP

Photo Number Pond 3-UP-1

Photo Location Pond 3-UP

Direction SE

Date 02/12/2020

Description:

Pond 3 upland sampling point



whb.	Tam O'Shanter G	AND DETER		City/County:	Ovster Bay / N	assau	Fam	Pond 3-V	
Project Site: Applicant/Owner:				City/County:	State: NY		ampling Point: Pond	p, Date: 2/12/2020 3-WET	
nvestigator(s):	D. Kennedy, C. Hir	nton		Sectio			f Brookville, Nassau Co		
andform (hillslope,	, terrace, etc.):	Flat				ех, лопе): Flat		ope (%): <1%	
ubregion (LRR o	r MLRA): ML	RA 149B	Lat	40.81040		Long: -73.5536	8	Datum: GCS WGS 1984	
oil Map Unit:	Montauk loam, 0 to						N)	VI Class: PUBHx	
			I for this time of year			Remarks:			
	nstances present?		ded, explain any answ		_	Domade	Dand adea variatio	a in maintained welf accord to of	
re Vegetation Years Vegetation No.			drology No	naturally pr	disturbed?	Remarks:	Pond edge vegetatio	n is maintained golf course turf.	
re vegetation in	, 3011	, ur my	di diogy	_ Hattifally pr	obiemade:	Neillaiks.	1		
UMMARY OF	F FINDINGS - A	ttach site n	nap showing sam	ple point lo	cations, t	ransects, imp	ortant features	, etc.	
ydrophytic Vege		-	No			ener error	o viere ver er e	090042	
ydric Soil Presen		_	Yes			Is This Sampl	e Area Within a W	etland? Yes	
Vetland Hydrolog	gy Present?		Yes						
			d of upland turf grasses th					irse. Given the observed	
CONTRACTO	nd hydrology and soils	s along the pond of	edge, wetland vegetation	would likely occu	r under natural	/undisturbed conditi	ons.		
YDROLOGY etland Hydrolog	y Indicators:					Secon	ndary Indicators (mir	imum of two required)	
	s (minimum of one	is required; che	eck all that apply)			Jeto	Surface Soil Cracks (THE PERSON AND ADDRESS OF THE PARTY.	
Surface Wat		1	Water-Stained Leave	es (B9)	_	-	Drainage Patterns (B		
X High Water		-	Aquatic Fauna (B13)			-	Moss Trim Lines (B1		
X Saturation (The second secon	-	Marl Deposits (B15)			-	Dry-Season Water To	N. 10.2 a.1	
Water Mark	(S (B1)	_	Hydrogen Sulfide Oc	for (C1)			Crayfish Burrows (CE	1)	
Sediment De		×			ts (C3)		Saturation Visible or		
Drift Deposi	its (B3)	1	Presence of Reduce	Iron (C4)		_	Stunted or Stressed	Plants (D1)	
Algal Mat or	r Crust (B4)		Recent Iron Reducti	on in Tilled Soils	(C6)	X	Geomorphic Position	(D2)	
Iron Deposit	ts (85)		Thin Muck Surface ((7)			Shallow Aquitard (D.	3)	
Inundation \	Visible on Aerial (B7)		Other (Explain in Re	marks)			Microtopographic Re	elief (D4)	
Sparsely Ver	getated Concave Sur	face (B8)					FAC-Neutral Test (DS)		
eld Observations	s:		2						
urface Water Pre	esent?		Depth (inches):	N/A					
Vater Table Prese aturation Presen	The state of the s	X	Depth (inches): Depth (inches):			Wetland Hydrology Present? Yes			
emarks: Other									
OIL									
	n: (Describe to the	depth needed t	o document the indic	ator or confirm	the absence	of indicators.)			
epth	Matrix		Re	dox Features					
	or (moist)	%	Color (maist)	%	Type'		Texture	Remarks	
_	OYR 3/2	98	10YR 5/6	2			SILT LOAM		
-22 10	OYR 4/3	75	10YR 5/8	25		M GRA	AVELLY LOAM		
rpe: C=Concentratio	on, D=Depletion, RM=R	educed Matrix, MS	=Masked Sand Grains.			² Locat	ion: PL=Pore Lining, M=IV	atrix.	
dric Soil Indicat	ors:					Indic	ators for Problematic	Hydric Soils ³ :	
Historal /AT	1		Daharah o Ba	Jan Suelana ISO	(unn n		2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histosol (A1			MLRA 149	low Surface (S8)	ILKK K,				
Histic Epipe Black Histic				rface (S9) (LRR F	MIEA MORN		Coast Prairie Redox		
Hydrogen St				ky Mineral (F1) (I		-		Peat (\$3) (LRR K, L, R)	
					KK K, L)	_	Dark Surface (S7) (LF		
Stratified Layers (A5) Loamy Gleyed Matrix (F2)						-	Polyvalue Below Sur		
	elow Dark Surface (A. Surface (A12)		Depleted M Redox Dark			-	Thin Dark Surface (S		
	cy Mineral (S1)		Control of the Contro	rk Surface (F7)		-		sses (F12) (LRR K, L, R) Soils (F19) (MLRA 149B)	
	A CONTRACTOR OF THE PROPERTY O					-		MLRA 144A, 145, 149B)	
Sandy Gleyed Matrix (S4) Redox Depressions (F8)						_	Red Parent Material		
X Sandy Redo	. 1201				100 E. AVE. 100 TA	ation and	Very Shallow Dark S		
	Stripped Matrix (S6) Stripped Matrix (S6)						The strains of the Park of		
Stripped Ma	atrix (S6) e (S7) (LRR R, MLRA :	1498)		tland hydrology	must be prese	nt, unless	Other (Explain in Re	The state of the s	
Stripped Ma Dark Surface	e (S7) (LRR R, MLRA	1498)		tland hydrology		nt, unless	Other (Explain in Re	The state of the s	
Stripped Ma Dark Surface	e (S7) (LRR R, MLRA : if observed):	1498)		tland hydrology	must be prese	nt, unless	Other (Explain in Re	narks)	
Stripped Ma Dark Surface estrictive Layer (i	e (S7) (LRR R, MLRA : if observed): oe:	1498)		tland hydrology	must be prese	nt, unless		narks)	

Carry V			
	h	h	

Sampling Point: Pond 3-WET

				Absolute	Dom.	Indicator	
Tree Stratum	(Plot size:	30 ft)	% Cover	Sp?	Status	Dominance Test Worksheet:
1.						2000	# Dominants OBL, FACW, FAC: 0 (
2							
2							# Dominants across all strata: 1 (
4.							
5.							% Dominants OBL, FACW, FAC: 0.00% (
				-			
-					-		
8.				-	_		Prevalence Index Worksheet:
-				0	= Tota	Cover	Total % Cover of: Multiply By:
Sanling Stratum	(Plot size:	30 ft	ĵ.	-	·	COVE	OBL 0 x1= 0
							FACW 0 x2 = 0
					_		FAC 0 x3= 0
2					-		FACU 0 x4= 0
4					_		UPL 1 x5= 5
				-	_		W
					-		Sum:1 (A)5 (
					_		500
							Prevalence Index = B/A = 5.00
8.							30 A. V. V. S. SAN STAN SAN STAN
				0	= Tota	Cover	Hydrophytic Vegetation Indicators:
	(Plot size:						Dominance Test is > 50%
1.					_		Prevalence Index is <= 3.0
							Problematic Hydrophytic Vegetation (explain)
3.							Rapid Test for Hydrophytic Vegetation
							Morphological Adaptations
							Indicators of hydric soil and wetland hydrology must be preser
							unless disturbed or problematic.
7							
8.							Definitions of Vegetation Strata:
				0	= Tota	Cover	
Herb Stratum	(Plot size:	5 ft)				Tree - Woody plants, excluding woody vines, approximately 20
 Festuca tra 	chyphylla			98	X	UPL	(6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH).
2.							Dreast Height (DDH).
4.4							
4.							Sapling - Woody plants, excluding woody vines, approximatel
5.							(6m) or more in height and less than 3in (7.6cm) DBH.
6.							
7.							
8.							Shrub - Woody plants, excluding woody vines, approximately
0							20ft (I to 6m) in height.
10					_		
11				_	_		Herb - All herbaceous (non-woody) plants, including herbaceo
12.					_		vines, regardless of size. Includes woody plants, except woody
12.				98	- Tota	Cover	less than approximately 3ft (1m) in height.
Messlestines	/District	30 ft	1	96	- Tota	LOVE	
Woody Vines	(Plot size:		/				
				-	_		Woody vine - All woody vines, regardless of height.
2.							vyoddy virie - Air woody vines, regardless of neight.
201							
2					_		
3. 4.							
3.							Control of the Contro
3. 4.				0	= Tota	Cover	Hydrophytic Vegetation Present? No
3. 4.				0	= Tota	Cover	Hydrophytic Vegetation Present?No

PHOTO LOG Report Sampling Point Pond 3-WET

Photo Number Pond 3-WET-1

Photo Location Pond 3-WET

Direction W

Date 02/12/2020

Description:

Pond 3



			RMINATION DAT					F
Project Site: WETLAND DETERMINATION DA Tam O'Shanter Golf Club			City/County:	Oyster Bay /		5amp, Date: 2/12/2020		
Applicant/Owner:					State: NY		Sampling Point:	Pond 4-UP
Investigator(s):					n, Townshi			
Landform (hillslope, te		тасе	704	-	(concave, con	vex, none): Flat		Slope (%): <1%
Subregion (LRR or I	MLF	RA 149B	Lat	40.81008		Long: -73.552	202	NWI Class:
Soil Map Unit:	ogic conditions o	n the site typic	al for this time of year	7 Yes		Remarks:		NVVI CIdSS.
Are Normal Circums			ded, explain any answ		_	Merriarks.		
Are Vegetation Yes			ydrology No	significantly		Remarks:	Golf course turf	and landscaping
Are Vegetation No			ydrology No	naturally pr		Remarks:		1 3
	Anti-Article	T. 7						and the same
		Attach site i	map showing san	nple point lo	cations,	transects, in	portant feat	ures, etc.
Hydrophytic Vegetat		100	No				DE BREELINGS OF	CARCOLINA
Hydric Soil Present?		_	No			Is This Sam	ple Area Within	a Wetland? No
Wetland Hydrology F	Present?		No					
Remarks:								
HADBOLOCA								
HYDROLOGY Wetland Hydrology I	Indicators:					Con	ondary Indicators	(minimum of two required
Primary Indicators (r		is required ch	eck all that apply)			Sec	Surface Soil Cra	and the second s
Surface Water		is required, ci	Water-Stained Leav	es (RQ)	_	_	Drainage Patte	The second secon
High Water Tal		-	Aquatic Fauna (B13			-	Moss Trim Line	
Saturation (A3)		-	Marl Deposits (815			-	Dry-Season Wa	
Water Marks (I		-	Hydrogen Sulfide O			-	Crayfish Burrow	and the same of th
Sediment Depo		-	Oxidized Rhizosphe		ts (C3)	-		ole on Aerial (C9)
Drift Deposits (-	Presence of Reduce		in the	_		ssed Plants (D1)
Algal Mat or Cr		-	Recent Iron Reducti		(C6)	_	Geomorphic Po	
Iron Deposits (-	Thin Muck Surface		1,000	-	Shallow Aquita	
	sible on Aerial (B7)	_	Other (Explain in Re			-	Microtopograp	
	tated Concave Sur					_	FAC-Neutral Test (D5)	
Field Observations:					- 1			
Surface Water Prese	ent?		Depth (inches)	: N/A				
Water Table Present? Depth (inche				: N/A		Wetland Hyd	rology Present?	No
Saturation Present?			Depth (inches)	N/A	200			
		depth needed	to document the indic		the absence	e of indicators.)		
SOIL Profile Description: (Depth	Matrix		R	edox Features			4	laza I
SOIL Profile Description: (Depth	Matrix (moist)	%		edox Features %	Type ¹	Loc ²	Texture	Remarks
SOIL Profile Description: (Depth	Matrix		R	edox Features		Loc ² N/A GR	AVELLY COARSE	Remarks
SOIL Profile Description: (Depth	Matrix (moist)	%	R	edox Features %	Type ¹	Loc ² N/A GR		Remarks
SOIL Profile Description: (Depth	Matrix (moist)	%	R	edox Features %	Type ¹	Loc ² N/A GR	AVELLY COARSE	Remarks
SOIL Profile Description: (Depth	Matrix (moist)	%	R	edox Features %	Type ¹	Loc ² N/A GR	AVELLY COARSE	Remarks
SOIL Profile Description: (Depth (in) Color (0-20 10YF	Matrix (moist) R_3/4	% 100	Color (moist)	edox Features %	Type ¹	Loc² GR	AVELLY COARSE SANDY LOAM	
SOIL Profile Description: (Depth (in) Color (Matrix (moist) R_3/4	% 100	Color (moist)	edox Features %	Type ¹	Loc² GR	AVELLY COARSE	
SOIL Profile Description: (Depth (in) Color (0-20 10YF	Matrix (moist) R_3/4 D=Depletion, RM=R	% 100	Color (moist)	edox Features %	Type ¹	Loc² N/A GR	AVELLY COARSE SANDY LOAM ation: PL=Pore Lining	
SOIL Profile Description: (Depth (in) Color (0-20 10YF	Matrix (moist) R_3/4 D=Depletion, RM=R	% 100	Color (moist) S=Masked Sand Grains.	edox Features % N/A	Type ¹ N/A	Loc² N/A GR	AVELLY COARSE SANDY LOAM ation: PL=Pore Lining, icators for Proble	. M=Matrix. matic Hydric Soils ³ :
SOIL Profile Description: (Depth (in) Color (0-20 10YF	Matrix (moist) R_3/4 D=Depletion, RM=R	% 100	Color (moist) S=Masked Sand Grains. Polyvalue B	edox Features % N/A N/A elow Surface (S8	Type ¹ N/A	Loc² N/A GR	AVELLY COARSE SANDY LOAM ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 1498)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: G=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedoi	Matrix (moist) R_3/4 D=Depletion, RM=R	% 100	Color (moist) S=Masked Sand Grains. Polyvalue B MLRA 14:	edox Features % N/A N/A elow Surface (S8) 98)	Type ¹ N/A	N/A GR	AVELLY COARSE SANDY LOAM ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A1G) (LRR K, L, R)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedoi Black Histic (A3)	Matrix (moist) R_3/4 D=Depletion, RM=R S:	% 100	Color (moist) S=Masked Sand Grains. Polyvalue B MLRA 14:Thin Dark S	edox Features % N/A N/A elow Surface (S8) 9B) urface (S9) (LRR F	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedoi	Matrix (moist) R_3/4 D=Depletion, RM=R s:	% 100	S=Masked Sand Grains. Polyvalue B MLRA 14 Thin Dark S Loamy Muc	edox Features % N/A N/A elow Surface (S8) 9B) urface (S9) (LRR F	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A1G) (LRR K, L, R)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer	Matrix (moist) R_3/4 D=Depletion, RM=R s:	% 100	S=Masked Sand Grains. Polyvalue B MLRA 14 Thin Dark S Loamy Muc	edox Features % N/A N/A elow Surface (S8) 9B) urface (S9) (LRR F ky Mineral (F1) (I	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer	Matrix (moist) R_3/4 D=Depletion, RM=R SS: in (A2) 3) ide (A4) ers (A5) w Dark Surface (A	% 100	S=Masked Sand Grains. Polyvalue B MLRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M	edox Features % N/A N/A elow Surface (S8) 9B) urface (S9) (LRR F ky Mineral (F1) (I	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belot Thin Dark Surfa	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: G=Concentration, 1 Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer Depleted Belov	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) Irs (A5) W Dark Surface (A Iface (A12)	% 100	S=Masked Sand Grains. Polyvalue B MLRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark	edox Features % N/A N/A elow Surface (S8) 9B) urface (S9) (LRR F eky Mineral (F1) (I yed Matrix (F2) latrix (F3)	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belot Thin Dark Surfa	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: G=Concentration, 1 Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer Depleted Belov Thick Dark Surfi	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) Ide (A4) Ide (A5) W Dark Surface (A Iface (A12) Mineral (S1)	% 100	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De	edox Features % N/A N/A elow Surface (S8,98) urface (S9) (LRR F cky Mineral (F1) (I ded Matrix (F2) latrix (F3) Surface (F6)	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer Depleted Belov Thick Dark Surf Sandy Mucky M	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) ers (A5) w Dark Surface (A eface (A12) Mineral (S1) Matrix (S4)	% 100	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De	edox Features % N/A N/A elow Surface (S8, 98) urface (S9) (LRR F cky Mineral (F1) (I red Matrix (F2) latrix (F3) Surface (F6) ark Surface (F7)	Type ¹ N/A (LRR R,	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 1498) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) .7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) ed Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histoic (A2) Hydrogen Sulfi Stratified Layer Depleted Belov Thick Dark Surf Sandy Mucky M Sandy Gleyed I	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) Ide (A4) Pers (A5) W Dark Surface (A Place (A12) Mineral (S1) Matrix (S4) S5)	% 100	S=Masked Sand Grains. Polyvalue B MRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De	edox Features % N/A N/A elow Surface (S8, 98) urface (S9) (LRR F cky Mineral (F1) (I red Matrix (F2) latrix (F3) Surface (F6) ark Surface (F7)	Type ¹ N/A I (LRR R, MLRA 1498 LRR K, L)	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (1 Red Parent Ma	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 1498) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) .7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) ed Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epistic (A3) Hydrogen Sulfi Stratified Layer Depleted Belov Thick Dark Surf Sandy Mucky M Sandy Gleyed I Sandy Redox (\$5 Stripped Matri	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) Ide (A4) Pers (A5) W Dark Surface (A Place (A12) Mineral (S1) Matrix (S4) S5)	% 100 Reduced Matrix, M	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De Redox Depr	edox Features % N/A N/A elow Surface (S8, 98) urface (S9) (LRR F ky Mineral (F1) (I red Matrix (F2) latrix (F3) Surface (F6) ark Surface (F7) ressions (F8)	Type ¹ N/A (LRR R, R, MLRA 1498 RR K, L)	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (1 Red Parent Ma	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) de Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer Depleted Belou Thick Dark Surf Sandy Mucky N Sandy Gleyed I Sandy Redox (S Stripped Matri Dark Surface (S	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) Irs (A5) W Dark Surface (A Iface (A12) Mineral (S1) Matrix (S4) SS) Ix (S6) S7) (LRR R, MLRA	% 100 Reduced Matrix, M	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De Redox Depr	edox Features % N/A Pelow Surface (S8) Pelow Surface (S9) Period Matrix (F2) Period Matrix (F3) Period Matr	Type ¹ N/A (LRR R, R, MLRA 1498 RR K, L)	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belor Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (1 Red Parent Ma Very Shallow D	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) de Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, Hydric Soil Indicators Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi Stratified Layer Depleted Belou Thick Dark Surf Sandy Mucky N Sandy Gleyed t Sandy Redox (\$ Stripped Matri Dark Surface (\$ Restrictive Layer (if o	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) Irs (A5) W Dark Surface (A Iface (A12) Mineral (S1) Matrix (S4) SS) Ix (S6) S7) (LRR R, MLRA)	% 100 Reduced Matrix, M	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De Redox Depr	edox Features % N/A Pelow Surface (S8) Pelow Surface (S9) Period Matrix (F2) Period Matrix (F3) Period Matr	Type ¹ N/A I (LRR R, R, MLRA 1498 RR K, L)	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Beloo Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (T Red Parent Ma Very Shallow D Other (Explain	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 1498) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) de Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498) (A6) (MLRA 144A, 145, 1498) lerial (F21) ark Surface (TF12) in Remarks)
SOIL Profile Description: (Depth (in) Color (0-20 10YF Type: C=Concentration, I Hydric Soil Indicators Histosol (A1) Histic Epistic (A3) Hydrogen Sulfi Stratified Layer Depleted Belov Thick Dark Surf Sandy Mucky M Sandy Gleyed I Sandy Redox (\$5 Stripped Matri	Matrix (moist) R_3/4 D=Depletion, RM=R SS: In (A2) 3) Ide (A4) Iders (A5) Iw Dark Surface (A Iface (A12) Mineral (S1) Mineral (S1) Mineral (S6) SS) Ix (S6) SS) (LRR R, MLRA Observed):	% 100 Reduced Matrix, M	S=Masked Sand Grains. Polyvalue B MIRA 14 Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted De Redox Depr	edox Features % N/A Pelow Surface (S8) Pelow Surface (S9) Period Matrix (F2) Period Matrix (F3) Period Matr	Type ¹ N/A I (LRR R, R, MLRA 1498 RR K, L)	N/A GR	ation: PL=Pore Lining, icators for Proble 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Beloo Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (T Red Parent Ma Very Shallow D Other (Explain	. M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (7) (LRR K, L, M) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) de Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12)

March 1			
SV	-		
V	n	n	

Sampling Point: Pond 4-UP

Tree Stratum	(Plot size:	30 ft	Ĩ	Absolute % Cover	Dom. Sp?	Indicator Status	Dominance Test Worksheet:
1.	(Fide Size)			77.557.57			# Dominants OBL, FACW, FAC: 0 (A)
3				_	_	_	# Dominants across all strata: 1 (B)
F.				7	_		% Dominants OBL, FACW, FAC: 0.00% (A/B)
7.							
8.				0	= Total	Cover	Prevalence Index Worksheet: Total % Cover of: Multiply By:
Sapling Stratum	(Plot size:	30 ft	ĵ.	-	·	COVCI	OBL 0 x1= 0
							FACW 0 x 2 = 0
2.							FAC 0 x3 = 0
3.							FACU 0 x 4 = 0 UPL 1 x 5 = 5
				-	_		Sum: 1 (A) 5 (B)
12.0					=		
7.					=		Prevalence Index = B/A = 5.00
8.					Total	Part of the	Highwah di Manakatian Indiana
Shrub Stratum	(Plot size:	15 ft	ĵ.	- 0	= Total	Cover	Hydrophytic Vegetation Indicators: Dominance Test is > 50%
							Prevalence Index is <= 3.0
							Problematic Hydrophytic Vegetation ¹ (explain)
3.							Rapid Test for Hydrophytic Vegetation
5					-		Morphological Adaptations
6.				-	_		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.							(
8.							Definitions of Vegetation Strata:
Herb Stratum	(Plot size:	5 ft	Í	0	= Total	Cover	Tree - Woody plants, excluding woody vines, approximately 20ft
Festuca trace				98	Х	UPL	(6m) or more in height and 3in (7.6cm) or larger in diameter at
2.							breast height (DBH).
3.							Carlotte Committee of the Committee of
							Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6				•	_		
7.							
8.							Shrub – Woody plants, excluding woody vines, approximately 3 to
9.						_	20ft (1 to 6m) in height.
10.				-	-		Herb - All herbaceous (non-woody) plants, including herbaceous
12.				-	_		vines, regardless of size. Includes woody plants, except woody vines,
				98	= Total	Cover	less than approximately 3ft (1m) in height.
Woody Vines	(Plot size:	30 ft)				
				-	_	$\overline{}$	Woody vine - All woody vines, regardless of height.
				-			Tradey will sall treasy will say regardless of resignati
5.							Table of the second second
				0	= Total	Cover	Hydrophytic Vegetation Present? No
Remarks: (If observ	ved, list morpholog	ical adaptatio	ons below).				
		,					

PHOTO LOG Report Sampling Point Pond 4-UP

Photo Number	Pond 4-UP-1
Photo Location	Pond 4-UP
Direction	NE
Date	02/12/2020

Description:

Pond 4 upland sampling point



Project Site:	Tam O'Shanter			City/County:					e: 2/12/2020
Applicant/Owner:	Tam O'Shanter G			W. Carrier	State: N		Sampling Point:		,
Investigator(s): Landform (hillslope, t	D. Kennedy, C. H	Toeslope			A CO COLUMN !	nvex, none): Conc	e of Brookville, Nass	Slope (%	
Subregion (LRR or		LRA 149B	lat:	40.80997	leothense, co	Long: -73.5			n: GCS WGS 1984
Soil Map Unit:	Montauk loam, 0					10.0	0204	City of the street of the state	5; PUBHx
	ogic conditions	on the site typ	ical for this time of year?	Yes		Remarks:			-
Are Normal Circum	stances present	? No If no	eded, explain any answe	rs in Remarks:					
Are Vegetation Yes	s , Soil		Hydrology No	significantly	disturbed	? Remark	5: Pond edge ve	getation is mai	ntained golf course turf.
Are Vegetation No	, Soil	No , or	Hydrology No	naturally pr	oblematic:	Remark	5:		
SUMMARY OF	FINDINGS -	Attach site	map showing samp	ple point lo	cations,	transects, i	mportant fea	tures, etc.	
Hydrophytic Vegeta			No						
Hydric Soil Present	?		Yes			Is This San	nple Area Withi	n a Wetland	Yes
Wetland Hydrology	Present?		Yes						
			ed of upland turf grasses tha g the pond edge, wetland ve					olf course. Giv	en the
C.C. (* 1.7 1.110	a welland hydrolog	gy and sons alon	g the pond edge, wettand vet	getation would lik	tery occur ur	idei fiaturai/uridist	urbed conditions.		
HYDROLOGY Wetland Hydrology	Indicators:					Se	condary Indicato	rs (minimum	of two required)
		e is required:	heck all that apply)			56	Surface Soil C		o, avo required/
Surface Wate			Water-Stained Leave	s (B9)	_	· ·	Drainage Patt		
X High Water T		-	Aquatic Fauna (B13)			-	Moss Trim Lir		
X Saturation (A	3)		Marl Deposits (B15)				Dry-Season W	ater Table (CZ	1)
Water Marks	(B1)	- 12	Hydrogen Sulfide Ode			-	Crayfish Burre	ows (C8)	
Sediment De		1.2	Oxidized Rhizosphere		ts (C3)		Saturation Vis		
Drift Deposits		-	Presence of Reduced			_	Stunted or Stu		D1)
Algal Mat or			Recent Iron Reductio		C6)	-	X Geomorphic I		
Iron Deposits	The state of the s	-	Thin Muck Surface (C			-	Shallow Aquit		í v
	isible on Aerial (B7 etated Concave Su	Carried State of the State of t	Other (Explain in Ren	narksj		-	Microtopogra FAC-Neutral T		+)
	The state of the s	mace (bb)			- 1	-	TAC-Nedual)	est (DJ)	
Field Observations:			Dooth (inches)	NI/A					
Surface Water Pres Water Table Preser	-		Depth (inches):						
			Donth (Inches)	N/A		Westerd H	declam, December		Voo
Saturation Present	7 =	X X uge, monitori	Depth (inches): Depth (inches): ng well, aerial photos, pre	9 7	ons), if ava	1172	drology Present?		Yes
Saturation Present' Describe Recorded Remarks: Other	? Data (stream ga	X nuge, monitori	Depth (inches): ng well, aerial photos, pre	9 7 evious inspection		ilable:			Yes
Saturation Present' Describe Recorded Remarks: Other SOIL Profile Description:	Pata (stream ga	X nuge, monitori	Depth (inches): ng well, aerial photos, pre d to document the indica	9 7 evious inspections tor or confirm		ilable:			Yes
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description:	Pata (stream ga	X Juge, monitori	Depth (inches): ng well, aerial photos, pre d to document the indica	9 7 evious inspection tor or confirm dox Features	the absence	ilable: ce of indicators.			
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color	Data (stream ga (Describe to the Matrix (moist)	X Juge, monitori e depth neede	Depth (inches): ng well, aerial photos, pre d to document the indica	9 7 evious inspection tor or confirm dox Features %	the absence	ilable: ce of indicators.	Texture		Yes
Soll Profile Description: Depth (in) Color 0-4 10\)	Pata (stream ga	X Juge, monitori	Depth (inches): ng well, aerial photos, pre d to document the indica	9 7 evious inspection tor or confirm dox Features	the absence	ilable: ce of indicators. Loc² N/A			
Soll Profile Description: Depth (in) Color 0-4 10\)	Data (stream ga (Describe to the Matrix (moist) (R 3/3	X nuge, monitoring e depth neede	Depth (inches): ng well, aerial photos, pre d to document the indica Rec Color (moist)	9 7 evious inspection tor or confirm dox Features % N/A	the absence	ilable: ce of indicators. Loc² N/A	Texture SILTY CLAY		
Soll Profile Description: Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100	Data (stream ga (Describe to the Matrix (moist) (R 3/3	X nuge, monitoring e depth neede	Depth (inches): ng well, aerial photos, pre d to document the indica Rec Color (moist)	9 7 evious inspection tor or confirm dox Features % N/A	the absence	ce of indicators. Loc² N/A PL GR/	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY	E	
Soll Profile Description: Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100	Data (stream ga (Describe to the Matrix (moist) (R 3/3	x nuge, monitori e depth neede % 100 85	Depth (inches): ng well, aerial photos, pre d to document the indica Rec Color (moist)	9 7 evious inspection tor or confirm dox Features % N/A 15	Type ¹ N/A C	ce of indicators. Loc² N/A PL GR/	Texture SILTY CLAY AVELLY LOAMY FIN SAND	E	
Solt Profile Description: Depth (in) Color 0-4 10 10 10 10 10 10 10 10 10 10 10 10 10	Pata (stream ga Data (stream ga (Describe to the Matrix (moist) (rR 3/3 (rR 3/2	x uge, monitori e depth neede % 100 85	Depth (inches): ng well, aerial photos, pre d to document the indica Rec Color (moist)	9 7 evious inspection tor or confirm dox Features % N/A 15	Type ¹ N/A C	ce of indicators. Loc² N/A PL GR/	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY		
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 DeDepletion, RM=	x uge, monitori	Depth (inches): ng well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6	9 7 evious inspection tor or confirm dox Features % N/A 15	Type ¹ N/A C	Loc ² N/A PL GR/ N/A C	Texture SILTY CLAY AVELLY LOAMY FIN SAND GRAVELLY LOAMY COARSE SAND	g, M=Matrix.	Remarks
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10\(\) 4-8 10\(\) 8-21 10\(\) Type: C=Concentration Hydric Soil Indicato	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 DeDepletion, RM=	x uge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains.	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A	Type ¹ N/A C N/A	Loc ² N/A PL GR/ N/A C	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND ocation: PL=Pore Linin dicators for Probl	g, M=Matrix. ematic Hydri	Remarks
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Type: G=Concentration Hydric Soil Indicato Histosol (A1)	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 J. D=Depletion, RM=	x uge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains. Polyvalue Bel	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A	Type ¹ N/A C N/A	Loc ² N/A PL GR/ N/A C	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND ocation: PL=Pore Linin dicators for Probl	g, M=Matrix. Ematic Hydri 10) (LRR K, L, I	Remarks c Soils ³ :
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10 4-8 10 8-21 10 Type: G=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 D=Depletion, RM= rs:	x uge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains. Polyvalue Bel MLRA 1498	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND ocation: PL=Pore Linin dicators for Probl 2 cm Muck (A	g, M=Matrix. ematic Hydri 10) (LRR K, L, Redox (A16) (L	Remarks c Soils ³ : MLRA 149B) RR K, L, R)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10 4-8 10 8-21 10 Type: G=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 D=Depletion, RM= rs:	x uge, monitori	Depth (inches): Ing well, aerial photos, prediction of the indication of the indica	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A low Surface (S8) B) rface (S9) (LRR R	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND COARSE SAND DOCATION: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S	Remarks c Soils ³ : MLRA 1498) RR K, L, R) 3) (LRR K, L, R)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10 4-8 10 8-21 10 Type: G=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 D=Depletion, RM= rs: on (A2) A3) (Ifide (A4)	x uge, monitori	Depth (inches): Ing well, aerial photos, prediction of the indication of the indica	9 7 evious inspection tor or confirm dox Features // N/A 15 N/A low Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND Docation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S S7) (LRR K, L,	Remarks c Soils ³ : MLRA 149B) RR K, L, R) 3) (LRR K, L, R)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10\(4-8 10\) 4-8 10\(4-8 10\) Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A) Hydrogen Sul Stratified Lay	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 D=Depletion, RM= rs: on (A2) A3) (Ifide (A4)	X luge, monitori	Depth (inches): Ing well, aerial photos, prediction of the indication of the indica	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A low Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2)	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND COARSE SAND DOCATION: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S S7) (LRR K, L, ow Surface (S8	Remarks c Soils ³ : MLRA 149B) RR K, L, R) 3) (LRR K, L, R) M)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10\(4-8 10\) 4-8 10\(4-8 10\) Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A) Hydrogen Sul Stratified Lay	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2 (R 4/2), D=Depletion, RM= rs; on (A2) A3) (Ifide (A4) ers (A5) ow Dark Surface (A	X luge, monitori	Depth (inches): Ing well, aerial photos, prediction of the indication of the indica	9 7 evious inspection tor or confirm dox Features N/A	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND Docation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur	g, M=Mātrix. ematic Hydri 10) (LRR K, L, Redox (A16) (L Peat or Peat (S (S7) (LRR K, L, ow Surface (S8 face (S9) (LRR	Remarks c Soils ³ : MLRA 149B) RR K, L, R) 3) (LRR K, L, R) M)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10\(4-8 10\) 4-8 10\(4-8 10\) 8-21 10\(4-8 10\) Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A) Hydrogen Sul Stratified Lay Depleted Belo	Pata (stream ga (Describe to the Matrix (Moist) (R 3/3 YR 3/2 (R 4/2 A), D=Depletion, RM= FS: on (A2) A3) Iffide (A4) ers (A5) ow Dark Surface (A12)	X luge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains. Polyvalue Bel MLRA 149f Thin Dark Sur Loamy Muck Loamy Muck Loamy Gleye Depleted Ma X Redox Dark S	9 7 evious inspection tor or confirm dox Features N/A	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur	g, M=Matrix. ematic Hydri 10) (LRR K, L, Redox (A16) (L eat or Peat (S (S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F1	Remarks c Soils ³ : MLRA 1498) RR K, L, R) 3) (LRR K, L, R) M) () (LRR K, L)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A1) Hydric Soil Stratified Lay Depleted Bell Thick Dark St. Sandy Mucky Sandy Gleyed	Data (stream ga (Describe to the Matrix (moist) (R 3/3 YR 3/2 YR 4/2 DeDepletion, RM= Frs: on (A2) A3) Iffide (A4) ers (A5) ow Dark Surface (A12) Mineral (S1) H Matrix (S4)	X luge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains. Polyvalue Bel MLRA 149f Thin Dark Sur Loamy Muck Loamy Muck Loamy Gleye Depleted Ma X Redox Dark S	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A low Surface (S8) B) fface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) surface (F6) k Surface (F7)	Type ³ N/A C N/A (LRR R.	Loc² N/A PL GRA N/A G	Texture SILTY CLAY AVELLY LOAMY FIN SAND GRAVELLY LOAMY COARSE SAND dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Flo Mesic Spodic	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S (S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F1 odplain Soils (I (TA6) (MLRA 1	Remarks c Soils ³ : MLRA 149B) RR K, L, R) 3) (LRR K, L, R) M) () (LRR K, L) K, L)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (I) Hydric Soil Stratified Lay Depleted Bell Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2 (R 4/2 DeDepletion, RM= (F) (R 4/2 Describe to the Matrix (moist) (R 3/3 (R 3/3 (R 3/2 (R 3	X luge, monitori	Depth (inches): Ing well, aerial photos, pre d to document the indica Rec Color (moist) 7.5YR 4/6 MS=Masked Sand Grains. Polyvalue Bel MLRA 149I Thin Dark Sur Loamy Muck Loamy Gleye Depleted Ma X Redox Dark S Depleted Dar Redox Depre	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A low Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) surface (F6) k Surface (F7) ssions (F8)	Type ³ N/A C N/A (LRR R.	ilable: Loc² N/A PL GR/ N/A O In	Texture SILTY CLAY AVELLY LOAMY FIN SAND GRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangan Piedmont Flo Mesic Spodic Red Parent M	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S (S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F) odplain Soils (I (TA6) (MLRA 1 aterial (F21)	Remarks c Soils ³ : MLRA 149B) RR K, L, R) M) () (LRR K, L, R) M) () (LRR K, L) (, L) (, L) (2) (LRR K, L, R) (44A, 145, 149B)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 10 4-8 10 Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (I) Hydratified Lay Depleted Bell Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mat	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2 (R 4/2 Depoletion, RM= (rs: on (A2) (A3) (Ifide (A4) (ers (A5) (ow Dark Surface (A12) (Mineral (S1) (Mineral (S1) (Matrix (S4) (S5) (rix (S6)	x luge, monitori e depth neede % 100 85 100	Depth (inches): Ing well, aerial photos, pre Record (moist) 7.5YR 4/6 ANS=Masked Sand Grains. Polyvalue Bel MLRA 1491 Thin Dark Sur Loamy Mucket Loamy Gleye Depleted Ma X Redox Dark S Depleted Dar Redox Depre	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A 15 N/A low Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) surface (F6) rk Surface (F7) ssions (F8) dicators of hydr	Type ³ N/A C N/A (LRR R. , MLRA 149 RR K, L)	te of indicators. Loc² N/A PL GR/ N/A O In B)	Texture SILTY CLAY AVELLY LOAMY FIN SAND GRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangan Piedmont Flo Mesic Spodic Red Parent M Very Shallow	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F1 odplain Soils (I (TA6) (MLRA 1 aterial (F21) Dark Surface (Remarks c Soils ³ : MLRA 149B) RR K, L, R) M) () (LRR K, L, R) M) () (LRR K, L) (, L) (, L) (2) (LRR K, L, R) (44A, 145, 149B)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Regard Indicato Histosol (A1) Histic Epiped: Black Histic (A1) Histic Epiped: Black Histic (A1) Histic Epiped: Black Histic (A2) Lydrogen Sul Stratified Lay Depleted Bele Thick Dark St. Sandy Mucky Sandy Gleyec Sandy Redox Stripped Mat Dark Surface	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2), D=Depletion, RM= (R 3/2), D=Depletion, RM= (R 3/3 (R 3/2), D=Depletion, RM= (R 3/3 (R 3/2), D=Depletion, RM= (R 3/3 (R 3/2	x luge, monitori e depth neede % 100 85 100	Depth (inches): Ing well, aerial photos, pre Record (moist) 7.5YR 4/6 ANS=Masked Sand Grains. Polyvalue Bel MLRA 1491 Thin Dark Sur Loamy Mucket Loamy Gleye Depleted Ma X Redox Dark S Depleted Dar Redox Depre	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A 15 N/A 15 N/A dow Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) urface (F6) rk Surface (F7) ssions (F8) dicators of hydreland hydrology r	Type ³ N/A C N/A N/A (LRR R, , MLRA 149 RR K, L)	te of indicators. Loc² N/A PL GR/ N/A O In B)	Texture SILTY CLAY AVELLY LOAMY FIN SAND GRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangan Piedmont Flo Mesic Spodic Red Parent M	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F1 odplain Soils (I (TA6) (MLRA 1 aterial (F21) Dark Surface (Remarks c Soils ³ : MLRA 149B) RR K, L, R) M) () (LRR K, L, R) M) () (LRR K, L) (, L) (, L) (2) (LRR K, L, R) (44A, 145, 149B)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Respective Soil Indicator Histosol (A1) Histic Epiped: Black Histic (A1) Histic Epiped: Black Histic (A2) Stratified Lay Depleted Bell Thick Dark Su. Sandy Mucky Sandy Gleyect Sandy Redox Stripped Mat Dark Surface Restrictive Layer (if	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2 (R 3/2 (R 4/2 Depletion, RM= (R 3/3 (R 3/2 (R 3/2 (R 3/2 (R 3/3 (R 3/2	x luge, monitori e depth neede % 100 85 100	Depth (inches): Ing well, aerial photos, pre Record (moist) 7.5YR 4/6 ANS=Masked Sand Grains. Polyvalue Bel MLRA 1491 Thin Dark Sur Loamy Mucket Loamy Gleye Depleted Ma X Redox Dark S Depleted Dar Redox Depre	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A 15 N/A 15 N/A dow Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) urface (F6) rk Surface (F7) ssions (F8) dicators of hydreland hydrology r	Type ³ N/A C N/A N/A (LRR R, , MLRA 149 RR K, L)	ce of indicators. Loc² N/A PL GR/ N/A O In B) etation and sent, unless	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L reat or Peat (S S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F) odplain Soils (I (TA6) (MLRA 1 aterial (F21) Dark Surface (s in Remarks)	Remarks c Soils ¹ : MLRA 1498) RR K, L, R) 3) (LRR K, L, R) M) (J (LRR K, L, R) -19) (MLRA 1498) -44A, 145, 1498)
Saturation Present Describe Recorded Remarks: Other SOIL Profile Description: Depth (in) Color 0-4 100 4-8 100 8-21 100 Type: C=Concentration Hydric Soil Indicato Histosol (A1) Histic Epiped Black Histic (A) Hydratified Lay Depleted Bell Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mat	Data (stream ga (Describe to the Matrix (moist) (R 3/3 (R 3/2 (R 4/2 DeDepletion, RM= (R 3/2 (R 4/2 Describe to the Matrix (moist) (R 3/3 (R 3/2 (x luge, monitori e depth neede % 100 85 100	Depth (inches): Ing well, aerial photos, pre Record (moist) 7.5YR 4/6 ANS=Masked Sand Grains. Polyvalue Bel MLRA 1491 Thin Dark Sur Loamy Mucket Loamy Gleye Depleted Ma X Redox Dark S Depleted Dar Redox Depre	9 7 evious inspection tor or confirm dox Features % N/A 15 N/A 15 N/A 15 N/A dow Surface (S8) B) rface (S9) (LRR R y Mineral (F1) (L d Matrix (F2) trix (F3) urface (F6) rk Surface (F7) ssions (F8) dicators of hydreland hydrology r	Type ³ N/A C N/A N/A (LRR R, , MLRA 149 RR K, L)	ce of indicators. Loc² N/A PL GR/ N/A O In B) etation and sent, unless	Texture SILTY CLAY AVELLY LOAMY FIN SAND SRAVELLY LOAMY COARSE SAND coation: PL=Pore Linin dicators for Probl 2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain	g, M=Matrix. ematic Hydri 10) (LRR K, L, I Redox (A16) (L eat or Peat (S S7) (LRR K, L, ow Surface (S8 face (S9) (LRR ese Masses (F1 odplain Soils (I (TA6) (MLRA 1 aterial (F21) Dark Surface (Remarks c Soils ¹ : MLRA 1498) RR K, L, R) 3) (LRR K, L, R) M) (J (LRR K, L, R) -19) (MLRA 1498) -44A, 145, 1498)

Vhb	Samplin
vhb	

ng Point: Pond 4-WET

				Absolute	Dom.	Indicator	
Tree Stratum (Plot size:	30 ft)	% Cover	Sp?	Status	Dominance Test Worksheet:
1.	Acres 200						# Dominants OBL, FACW, FAC: 0 (A
					_		
2					-		# Dominants across all strata: 1 (B
4.							Carrier Annual Control of the Contro
5.							% Dominants OBL, FACW, FAC: 0.00% (A
6.							
							Prevalence Index Worksheet:
				0	= Total	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size:	30 ft	ĵ.		9		OBL 0 x1= 0
							FACW 0 x 2 = 0
2.					_		FAC 0 x3 = 0
3.					-		FACU 0 x 4 = 0
4					=		UPL 1 x5= 5
5					_		Sum: 1 (A) 5 (B
					$\overline{}$		
7					_		Prevalence Index = B/A = 5.00
8.					$\overline{}$		Trevalence mack = 5/A =
0.				0	= Total	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:	15 ft	Ŷ	_	- Total	cover	Dominance Test is > 50%
							Prevalence Index is <= 3.0
					_		Problematic Hydrophytic Vegetation ³ (explain)
					_		Rapid Test for Hydrophytic Vegetation
3.							
					-		Morphological Adaptations
5.							Indicators of hydric soil and wetland hydrology must be present
7.				$\overline{}$	_		unless disturbed or problematic.
							P. Firefore of M. Carlos Paragraphs
8.				0	= Total	Course	Definitions of Vegetation Strata:
Herb Stratum (Plot size:	5 ft	ý		- 1014	COVE	Tree - Woody plants, excluding woody vines, approximately 20f
Festuca trachyph				98	Х	UPL	(6m) or more in height and 3in (7.6cm) or larger in diameter at
707	•						breast height (DBH).
0				_	_		
					_		Sapling - Woody plants, excluding woody vines, approximately
5.					_		(6m) or more in height and less than 3in (7.6cm) DBH.
6.					_		
7.					_		
					_		Shrub - Woody plants, excluding woody vines, approximately 3
0							20ft (1 to 6m) in height.
					_		
				_	_		Herb - All herbaceous (non-woody) plants, including herbaceou
11.					_		vines, regardless of size: Includes woody plants, except woody vi
					-		less than approximately 3ft (1m) in height.
12.		30 ft	· V	98	= Total	Lover	
12.	Diot size:	5511					
12	Plot size:						Was division of the same of the
Woody Vines (
Woody Vines (1. 2.				_	_		Woody vine - All woody vines, regardless of height.
12							WOODY VINE - All woody vines, regardless of height.
12							WOODY VINE - All Woody vines, regardless of neight.
12				0	= Total		Hydrophytic Vegetation Present?

Vegetation along the pond edge is comprised of upland turf grasses that are landscaped and maintained in association with site use as a golf course. Given the observed wetland hydrology and soils along the pond edge, wetland vegetation would likely occur under natural/undisturbed conditions.

PHOTO LOG Report Sampling Point Pond 4-WET

Photo Number Pond 4-WET-1

Photo Location Pond 4-WET

Direction S

Date 02/12/2020

Description:

Pond 4



weth.	AND DETERMINATION DAT			ast Region	Pond 5-I
Project Site: Tam O'Shanter C		City/County: Oyster Bay / N			Date: 2/12/2020
Applicant/Owner: Tam O'Shanter Go		State: NY		npling Point: Pond 5-U	
Investigator(s): D. Kennedy, C. Hi Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, con		rookville, Nassau County	
		t: 40.80944	Long: -73.55663		e (%): <1% tum: GCS WGS 1984
	o 3 percent slopes (MkA)	40.00344	LONG73.33003	NWI	
Are climatic/hydrologic conditions o		r? Yes	Remarks:		
Are Normal Circumstances present?	그러나의 경기를 선택하는 하는 사람이 있는데 그 방지 않는데 되었다.				
	No , or Hydrology No	significantly disturbed?	Remarks:	Golf course turf and land	scaping
Are Vegetation No , Soil	No , or Hydrology No	naturally problematic?	Remarks:		
SUMMARY OF FINDINGS - A	Attach site map showing sar	mple point locations,	transects, impo	ortant features, e	tc.
Hydrophytic Vegetation Present?	No			Ware	
Hydric Soil Present?	No		Is This Sample	Area Within a Wetl	and? No
Wetland Hydrology Present?	No				
Remarks:					
HWDDOLOCV					
HYDROLOGY Wetland Hydrology Indicators:			Second	ary Indicators (minim	um of two required)
Printary Indicators (minimum of one	is required; check all that apply)		-	Surface Soil Cracks (B6)	in st overladences.
Surface Water (A1)	Water-Stained Lea	ves (B9)		Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B1			Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15			Dry-Season Water Table	(C2)
Water Marks (B1)	Hydrogen Sulfide (Crayfish Burrows (C8)	12-7
Sediment Deposits (B2)		eres on Living Roots (C3)		Saturation Visible on Ae	rial (C9)
Drift Deposits (B3)	Presence of Reduc			Stunted or Stressed Plan	
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)		Geomorphic Position (D	
Iron Deposits (B5)	Thin Muck Surface			Shallow Aquitard (D3)	•
Inundation Visible on Aerial (B7)		Table 1		Microtopographic Relie	(D4)
Sparsely Vegetated Concave Sur				FAC-Neutral Test (D5)	4
Field Observations:		- 1			
Surface Water Present?	Depth (inches); N/A			
Water Table Present?	Depth (inches); N/A	Wetland Hydrold	ogy Present?	No
Saturation Present?	Depth (inches): N/A			
Remarks: Other			Fr. W		
Profile Description: (Describe to the Depth Matrix		cator or confirm the absence Redox Features	of indicators.)		
(in) Color (moist)	% Color (maist)	% Type ¹	Loc ² To	exture	Remarks
0-9 10YR 4/4	100	N/A N/A		AY LOAM	nemarks
9-18 7.5YR 4/6	100	N/A N/A		CLAY LOAM	
		- تسابسان			
Type: C=Concentration, D=Depletion, RM=R	teduced Matrix, MS=Masked Sand Grains.		*Location	n: PL=Pore Lining, M=Matri	C.
Hydric Soil Indicators:			Indicat	ors for Problematic Hy	dric Soils ³ :
Histosol (A1)	Polyvalue	Below Surface (S8) (LRR R,		2 cm Muck (A10) (LRR K	L, MLRA 149B)
Histic Epipedon (A2)	MLRA 14	19B)		Coast Prairie Redox (A10	6) (LRR K, L, R)
Black Histic (A3)	Thin Dark	Surface (S9) (LRR R, MLRA 149B)	5 cm Mucky Peat or Pea	t (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mu	cky Mineral (F1) (LRR K, L)		Dark Surface (S7) (LRR K	, L, M)
Stratified Layers (A5)	Loamy Gle	yed Matrix (F2)		Polyvalue Below Surface	(S8) (LRR K, L)
Depleted Below Dark Surface (A	11) Depleted N	Matrix (F3)		Thin Dark Surface (S9) (I	RR K, L)
Thick Dark Surface (A12)	Redox Dar	k Surface (F6)		Iron-Manganese Masses	(F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted 0	Dark Surface (F7)		Piedmont Floodplain So	ls (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Dep	ressions (F8)		Mesic Spodic (TA6) (MU	RA 144A, 145, 149B)
Sandy Redox (S5)				Red Parent Material (F2	1)
Stripped Matrix (S6)		Indicators of hydrophytic vege	tation and	Very Shallow Dark Surfa	ce (TF12)
Dark Surface (S7) (LRR R, MLRA		etland hydrology must be prese	ent, unless	Other (Explain in Remar	ks)
Restrictive Layer (if observed):		disturbed or pro	obiematic.		
Type:				Hydric Soil Pre	sent? No
Depth (inches):				1.72114 2211 114	THY
Sabar trippent					

affine and		
~ whb	Sampling Point:	Pond 5-UP

ree Stratum 1. Quercus ru	(Plot size:	30 ft		Cover	Dom. Sp?	Indicator Status	Dominance Test Worksheet:
	A CONTRACTOR OF THE PROPERTY O			38	X	FACU	# Dominants OBL, FACW, FAC: 0 (A)
2. Cornus flor	ida			10.5	×	FACU	
3.							# Dominants across all strata: 3 (B)
4.							
5							% Dominants OBL, FACW, FAC: 0.00% (A/E
4							
				_			and the first test to the
8.				48	= Total	Carre	Prevalence Index Worksheet:
oling Stratum	(Plot size:	30 ft	Ŷ.	40	= total	cover	Total % Cover of: Multiply By:
	(11003126)						FACW 0 x2= 0
2.					-		FAC 0 x3 = 0
_							FACU 2 x 4 = 8
4							UPL 1 x5= 5
ri .							Sum: 3 (A) 13 (B)
5							
7							Prevalence Index = B/A = 4.64
8							
No.	200	45.6		0	= Total	Cover	Hydrophytic Vegetation Indicators:
rub Stratum	(Plot size:						Dominance Test is > 50%
2.				_	_		Prevalence Index is <= 3.0 Problematic Hydrophytic Vegetation (explain)
3.					_		Rapid Test for Hydrophytic Vegetation
							Morphological Adaptations
0							¹ Indicators of hydric soil and wetland hydrology must be present.
e							unless disturbed or problematic,
7							
8.							Definitions of Vegetation Strata:
				0	= Total	Cover	
erb Stratum	(Plot size:	5 ft					Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
Festuca tra				85.5	X	UPL	breast height (DBH).
2							
4.					_		Sapling - Woody plants, excluding woody vines, approximately 20
-				_	_		(6m) or more in height and less than 3in (7.6cm) DBH.
3							
5.					=		
7.					=		Shrub – Woody plants, excluding woody vines, approximately 3 to
6 7 8							
6							Shrub – Woody plants, excluding woody vines, approximately 3 to
6							Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous
6							Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous
5				85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine
6	(Plot size:	30 ft		85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine
6. 7. 8. 9. 0. 11. 22. Voody Vines 1.	(Plot size:	30 ft)	85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine less than approximately 3ft (1m) in height.
6.	(Plot size:	30 ft)	85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine
6.	(Plot size:	30 ft)	85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine less than approximately 3ft (1m) in height.
9	(Plot size:	30 ft)	85	= Total	Cover	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine less than approximately 3ft (1m) in height.
6.	(Plot size:	30 ft)	85	= Total		Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vine less than approximately 3ft (1m) in height.

PHOTO LOG Report Sampling Point Pond 5-UP

Photo Number	Pond 5-UP-1
Photo Location	Pond 5-UP
Direction	SE
Date	02/12/2020

Description:

Pond 5 upland sampling point



pplicant/Owner: Tam O'Shanter Golf	f Club		Oyster Bay / State: NY	F TO 1	Sampling Point: I	Samp. Date: 2/12/2020 Pond 5-WET
nvestigator(s): D. Kennedy, C. Hint	ton		Section, Township	, Range: Villa	ge of Brookville, Nassa	u County, NY
	Flat	Loc	al relief (concave, cor	vex, лопе): Flat		Slope (%): <1%
	RA 149B	Lat: 40.8094	17	Long: -73.5	55678	Datum: GCS WGS 1984
	3 percent slopes (MkA)	tation of our or a Viv		(Normalia)		NWI Class: PUBHx
e climatic/hydrologic conditions on		the second second second second second	anarlie:	Remarks:		
re Normal Circumstances present? \(\square\) re Vegetation No , Soil \(\square\)	Yes , or Hydrolog	plain any answers in Re	ificantly disturbed?	Remar	ks: Disturbed soil p	profile
	No , or Hydrolog		rally problematic?	Remar		orone
,5011	, 0, 1, 0, 0, 0, 0		nany problematic.	marina.		
UMMARY OF FINDINGS - At	ttach site map s	howing sample po	oint locations,	transects, i	important featu	ires, etc.
ydrophytic Vegetation Present?	Yes					
lydric Soil Present?	Yes			Is This Sa	mple Area Within	a Wetland? Yes
Vetland Hydrology Present?	Yes	_				
emarks:						
Creditar elstic						
YDROLOGY						
etland Hydrology Indicators:		W. J. L. W. W.		S		(minimum of two required)
imary Indicators (minimum of one is				7.4	Surface Soil Cra	AC- 4-150
Surface Water (A1)		ter-Stained Leaves (B9)		-	Drainage Patter	
X High Water Table (A2)		uatic Fauna (B13)		-	Moss Trim Line	
Saturation (A3)		rl Deposits (B15)		-	Dry-Season Wa	and the second
Water Marks (B1)		drogen Sulfide Odor (C1)	due No ale tool	-	Crayfish Burrov	1000000
Sediment Deposits (B2)		dized Rhizospheres on Liv		· ·		ole on Aerial (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)		sence of Reduced Iron (Co cent Iron Reduction in Tille		-	X Geomorphic Po	
Iron Deposits (B5)		n Muck Surface (C7)	ed Solis (Co)	-	Shallow Aquita	
Inundation Visible on Aerial (B7)		ner (Explain in Remarks)		-	Microtopograp	
Sparsely Vegetated Concave Surfa	117.5	rer (explain in hemarks)		-	FAC-Neutral Te	
	ace (ed)		- 10	-	The head is	(65)
eld Observations:		Development N	//			
urface Water Present?			/A	Village of the Co	orter from Manager	V
Vater Table Present? aturation Present?			6	Wetland H	ydrology Present?	Yes
escribe Recorded Data (stream gaug			nspections), if avail	1 7 7 7 7		
escribe Recorded Data (stream gaug emarks: Other				1 7 7 7 7		
escribe Recorded Data (stream gaugemarks: Other OIL rofile Description: (Describe to the d	ge, monitoring well, a	erial photos, previous i	nspections), if avai	able:		
escribe Recorded Data (stream gaugemarks: Other OIL rofile Description: (Describe to the d	ge, monitoring well, a	erial photos, previous i	nspections), if avai	able:		
escribe Recorded Data (stream gaugemarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist)	ge, monitoring well, a	erial photos, previous i ment the indicator or o Redox Fea	nspections), if avai	able: e of indicators	.) Texture	Remarks
escribe Recorded Data (stream gaugemarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4	lepth needed to docu	ment the indicator or or (moist)	confirm the absence tures 7 Type 1 N/A N/A	able: e of indicators Loc² N/A	.) Texture SANDY CLAY LOAM	
escribe Recorded Data (stream gauge emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4	lepth needed to docu	ment the indicator or or (moist)	confirm the absence tures // Type // N/A	able: e of indicators Loc² N/A M,PL GR	.) Texture SANDY CLAY LOAM AVELLY SANDY CLAY	
escribe Recorded Data (stream gaugemarks: OIL Tofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4	lepth needed to docu	ment the indicator or of Redox Feator (moist)	confirm the absence tures 7 Type 1 N/A N/A	able: e of indicators Loc² N/A	.) Texture SANDY CLAY LOAM	
exercibe Recorded Data (stream gauge marks: other of the depth Matrix in) Color (moist) O-4 10YR 3/4 4-8 10YR 4/4	lepth needed to docu	ment the indicator or or (moist)	confirm the absence tures // Type // N/A	able: e of indicators Loc² N/A M,PL GR	.) Texture SANDY CLAY LOAM AVELLY SANDY CLAY	
escribe Recorded Data (stream gaugemarks: OIL Tofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4	lepth needed to docu	ment the indicator or or (moist)	confirm the absence tures // Type // N/A	able: e of indicators Loc² N/A M,PL GR	.) Texture SANDY CLAY LOAM AVELLY SANDY CLAY	
escribe Recorded Data (stream gaugemarks: OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1	lepth needed to docu % Cok 100 90 7. 90 1	iment the indicator or or Redox Feator (moist) N 5YR 4/6 0YR 4/3	confirm the absence tures // Type // N/A	able: e of indicators Loc² N/A M,PL M	.) Texture SANDY CLAY LOAM AVELLY SANDY CLAY	/ - -
escribe Recorded Data (stream gauge emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1	lepth needed to docu % Cok 100 90 7. 90 1	iment the indicator or or Redox Feator (moist) N 5YR 4/6 0YR 4/3	confirm the absence tures // Type // N/A	e of indicators Loc² N/A M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY	/ M=Matrix.
emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 8-18 10YR 3/1 Vype: C=Concentration, D=Depletion, RM=Recoydric Soil Indicators:	lepth needed to docu % Cok 100 90 7. 90 1	ment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3	confirm the absence tures M Type N/A N/A O C	e of indicators Loc² N/A M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY ocation: PL=Pore Lining,	M=Matrix. matic Hydric Soils ³ :
escribe Recorded Data (stream gauge emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1 ype: C=Concentration, D=Depletion, RM=Recydric Soil Indicators: Histosol (A1)	lepth needed to docu % Cok 100 90 7. 90 1	iment the indicator or or Redox Feator (moist) N 5YR 4/6 0YR 4/3	confirm the absence tures M Type N/A N/A O C	e of indicators Loc² N/A M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1	M=Matrix. natic Hydric Soils ³ : D) (LRR K, L, MLRA 1498)
escribe Recorded Data (stream gaugemarks: OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1	lepth needed to docu % Cok 100 90 7. 90 1	ment the indicator or or (moist) SYR 4/6 OYR 4/3 d Sand Grains.	confirm the absence tures 74 Type 74 N/A 10 C 10 C 10 C	able: e of indicators Loc² N/A S M,PL M 7	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY ocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1	M=Matrix. matic Hydric Soils ³ :
emarks: OIL offile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1 ype: G=Concentration, D=Depletion, RM=Recydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	lepth needed to docu % Cok 100 90 7. 90 1	ment the indicator or or (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surl	confirm the absence tures Mark Type N/A N/A O C Gace (S8) (LRR R,	able: e of indicators Loc² N/A S M,PL M 7	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY ocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R)
emarks: DIL ofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 6-18 10YR 3/1 View George Concentration, Dependent, RM=Resydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	lepth needed to docu % Cok 100 90 7. 90 1	ment the indicator or or (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surf MLRA 149B) Thin Dark Surface (SS	confirm the absence tures 74 Type 74 N/A 10 C 10 C 75 C 76	able: e of indicators Loc² N/A S M,PL M 7	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY ocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R)
escribe Recorded Data (stream gaugemarks: OIL ofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 6-18 10YR 3/1 Vipe: C=Concentration, D=Depletion, RM=Recorder Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)	lepth needed to docu Cok 100 90 7. 90 10 duced Matrix, MS=Maske	ment the indicator or or (moist) SYR 4/6 OYR 4/3 Deliver and Sylvanian and Sylvania	confirm the absence tures 7/A Type ³ 10 C	able: e of indicators Loc² N/A S M,PL M 7	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1) Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M)
escribe Recorded Data (stream gaugemarks: Dither OIL offile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1 ype: C=Concentration, D=Depletion, RM=Recydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	lepth needed to docu Cok 100 90 7. 90 10 duced Matrix, MS=Maske	ment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surl MLRA 149B) Thin Dark Surface (St.	confirm the absence tures 'A Type' IO C IO C Gace (S8) (LRR R. O) (LRR R, MLRA 1498 al (F1) (LRR K, L)	able: e of indicators Loc² N/A S M,PL M 7	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1) Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L)
emarks: DIL offile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 1-18 10YR 3/1 Vere: C=Concentration, D=Depletion, RM=Recydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A1:	lepth needed to docu Cok 100 90 7. 90 10 duced Matrix, MS=Maske	ment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surl MLRA 149B) Thin Dark Surface (SYL Loamy Mucky Miner Loamy Gleyed Matrix Depleted Matrix (F3)	confirm the absence tures //A Type ¹ //A N/A 10 C 10 C face (S8) (LRR R, 0) (LRR R, MLRA 1498 al (F1) (LRR K, L) (F2)	able: Loc² N/A S M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganes	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L) ce (S9) (LRR K, L)
escribe Recorded Data (stream gaugemarks: Dither OIL offile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 3-18 10YR 3/1 ype: C=Concentration, D=Depletion, RM=Recydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12)	lepth needed to docu Cok 100 90 7. 90 10 duced Matrix, MS=Maske	ment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surf MLRA 149B) Thin Dark Surface (SYL Loamy Mucky Miner Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (confirm the absence tures //A Type ¹ //A N/A 10 C 10 C face (S8) (LRR R, 2) (LRR R, MLRA 1498 al (F1) (LRR K, L) (F2) F6) pe (F7)	able: Loc² N/A S M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganes Piedmont Floor	M=Matrix. matic Hydric Soils ³ : 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) v Surface (S8) (LRR K, L) ce (S9) (LRR K, L)
emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 8-18 10YR 3/1 ype: C=Concentration, D=Depletion, RM=Resydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A1: Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	lepth needed to docu Cok 100 90 7. 90 10 duced Matrix, MS=Maske	ment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surf MLRA 149B) Thin Dark Surface (SYL Loamy Mucky Miner Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Depleted Dark Surface)	confirm the absence tures //A Type ¹ //A N/A 10 C 10 C face (S8) (LRR R, 2) (LRR R, MLRA 1498 al (F1) (LRR K, L) (F2) F6) pe (F7)	able: Loc² N/A S M,PL M	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1 Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganes Piedmont Floor	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) Edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) V) (LRR K, L, M) V Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B)
emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 8-18 10YR 3/1 Vype: C=Concentration, D=Depletion, RM=Reserver Color (A2) Histosol (A1) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A1: Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Jepth needed to docu % Cok 100 90 7. 90 10 duced Matrix, MS=Maske	iment the indicator or of Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surf MLRA 149B) Thin Dark Surface (St. Loamy Mucky Miner Loamy Gleyed Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Redox Depressions (I	confirm the absence tures //A Type ¹ //A N/A 10 C 10 C face (S8) (LRR R, 2) (LRR R, MLRA 1498 al (F1) (LRR K, L) (F2) F6) pe (F7)	able: Loc² N/A M,PL M In	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1) Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Beloy Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (1 Red Parent Mat Very Shallow D	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (LRR K, L, M) v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (A6) (MLRA 144A, 145, 149B) lerial (F21) ark Surface (TF12)
Describe Recorded Data (stream gauge demarks: Other Soll Land (stream gauge demarks: Other Matrix (in) Color (moist) O.4 10YR 3/4 O.4 10YR 3/4 O.4 10YR 3/4 O.4 10YR 3/1 O.4 Other Soll Land (stream gauge demarks) O.4 10YR 3/1 O.4 Other Soll Land (stream gauge demarks) Other Color (stream gauge demarks) Other (stream gauge demarks) Other Color (stream gauge demarks) Other (stream	Jepth needed to docu % Cok 100 90 7. 90 10 duced Matrix, MS=Maske	iment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surface (St. Loamy Mucky Miner Loamy Gleyed Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Redox Depressions (I	confirm the absence stures "A Type" ANA O C O C O C (ace (S8) (LRR R. D) (LRR R, MLRA 149E al (F1) (LRR K, L) (F2) F6) se (F7) s of hydrophytic veget drology must be pres	able: Loc² N/A M,PL GR M Interpretation and dent, unless	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1) Coast Prairie Re 5 cm Mucky pe Dark Surface (S Polyvalue Beloy Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (T Red Parent Mai	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 1498) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (LRR K, L, M) V Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498) (A6) (MLRA 144A, 145, 1498) derial (F21) ark Surface (TF12)
Describe Recorded Data (stream gauge demarks: Other COIL Color (Describe to the describe Description: (Describe to the description) Color (Moist) Color	Jepth needed to docu % Cok 100 90 7. 90 10 duced Matrix, MS=Maske	iment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surface (St. Loamy Mucky Miner Loamy Gleyed Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Redox Depressions (I	confirm the absence stures """ """ """ """ """ """ """	able: Loc² N/A M,PL GR M Interpretation and dent, unless	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Cocation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1) Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Beloy Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (1 Red Parent Mat Very Shallow D	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 1498) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (LRR K, L, M) V Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498) (A6) (MLRA 144A, 145, 1498) derial (F21) ark Surface (TF12)
emarks: Other OIL rofile Description: (Describe to the depth Matrix (in) Color (moist) 0-4 10YR 3/4 4-8 10YR 4/4 8-18 10YR 3/1 Vype: C=Concentration, D=Depletion, RM=Received Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A1: Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14) estrictive Layer (if observed):	Jepth needed to docu % Cok 100 90 7. 90 10 duced Matrix, MS=Maske	iment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surface (St. Loamy Mucky Miner Loamy Gleyed Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Redox Depressions (I	confirm the absence stures "A Type" ANA O C O C O C (ace (S8) (LRR R. D) (LRR R, MLRA 149E al (F1) (LRR K, L) (F2) F6) se (F7) s of hydrophytic veget drology must be pres	able: Loc² N/A M,PL GR M Interpretation and dent, unless	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Coation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1i Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surface Iron-Manganes Piedmont Floor Mesic Spodic (1 Red Parent Mai Very Shallow D X Other (Explain	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 1498) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 7) (LRR K, L, M) w Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498) d6) (MLRA 144A, 145, 1498) derial (F21) ark Surface (TF12) in Remarks)
Describe Recorded Data (stream gauge demarks: Other Soll Land (stream gauge demarks: Other Matrix (in) Color (moist) O.4 10YR 3/4 O.4 10YR 3/4 O.4 10YR 3/4 O.4 10YR 3/4 O.4 10YR 3/1 O.4 1	Jepth needed to docu % Cok 100 90 7. 90 10 duced Matrix, MS=Maske	iment the indicator or or Redox Feator (moist) SYR 4/6 OYR 4/3 d Sand Grains. Polyvalue Below Surface (St. Loamy Mucky Miner Loamy Gleyed Matrix (F3) Redox Dark Surface (Depleted Dark Surface (Redox Depressions (I	confirm the absence stures "A Type" ANA O C O C O C (ace (S8) (LRR R. D) (LRR R, MLRA 149E al (F1) (LRR K, L) (F2) F6) se (F7) s of hydrophytic veget drology must be pres	able: Loc² N/A M,PL GR M Interpretation and dent, unless	Texture SANDY CLAY LOAM AVELLY SANDY CLAY SANDY CLAY Coation: PL=Pore Lining, adicators for Problet 2 cm Muck (A1i Coast Prairie Re 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surface Iron-Manganes Piedmont Floor Mesic Spodic (1 Red Parent Mai Very Shallow D X Other (Explain	M=Matrix. matic Hydric Soils ³ : D) (LRR K, L, MLRA 1498) dox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) (LRR K, L, M) V Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 1498) (A6) (MLRA 144A, 145, 1498) derial (F21) ark Surface (TF12)

All and the second		
*Whb	Sampling Point:	Pond 5-WE
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ree Stratum (Plot size: 30 ft) 1. Quercus rubra	Absolute	Dom.	Indicator	
to street.	% Cover	Sp?	Status	Dominance Test Worksheet:
				# Dominants OBL, FACW, FAC: 3 (A)
Quotat last	10.5		FACU	# Dominants OBL, FACW, FAC. (A)
) 	_			# Dominants across all strata: 4 (B)
				# Dominants across all strata: 4 (B)
				75,000/
				% Dominants OBL, FACW, FAC: 75.00% (A/E
3.				Prevalence Index Worksheet:
Section 1 Section 1	10	= Total Co	over	Total % Cover of: Multiply By:
pling Stratum (Plot size: 30 ft)				OBL 2 x1= 2
				FACW 0 x 2 = 0
eri				FAC 1 ×3 = 3
				FACU 2 x 4 = 8
				UPL 0 x5= 0
		100		Sum: 5 (A) 13 (B)
h				Prevalence Index = B/A = 2.25
-	0	= Total Co	over	Hydrophytic Vegetation Indicators:
rub Stratum (Plot size: 15 ft)				X Dominance Test is > 50%
Clethra alnifolia	20.5	Х	FAC	X Prevalence Index is <= 3.0
				Problematic Hydrophytic Vegetation (explain)
4				Rapid Test for Hydrophytic Vegetation
-				Morphological Adaptations
				Norphological Adaptations
				Indicators of hydric soil and wetland hydrology must be present,
\				The state of the s
				unless disturbed or problematic,
				(- 1, - 1, - 1, - 1, - 1, - 1, - 1, - 1,
				unless disturbed or problematic, Definitions of Vegetation Strata:
		= Total Co	over	Definitions of Vegetation Strata:
rb Stratum (Plot size: 5 ft)				Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft
rb Stratum (Plot size:5 ft)	20 20.5	×	OBL	Definitions of Vegetation Strata:
rb Stratum (Plot size: 5 ft)	20 20.5 10.5			Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata	20 20.5	×	OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata:: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH).
rb Stratum (Plot size:5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20
b Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH.
rb Stratum (Plot size: 5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to
b Stratum (Plot size:5 ft) Iris pseudacorus Pontederia cordata Festuca rubra	20 20.5 10.5 3	×	OBL OBL	Definitions of Vegetation Strata:: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
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prb Stratum (Plot size: 5 ft) L Iris pseudacorus Pontederia cordata Festuca rubra 1.	20 20.5 10.5 3	<u>x</u> <u>x</u>	OBL OBL FACU	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines.
arb Stratum (Plot size: 5 ft) I. Iris pseudacorus Pontederia cordata Festuca rubra 4. 5. 6. 7. 8. 9. 9. 1. 1. 2. 1. 2. 2. 2. 2. 3. 4. 5. 6. 7. 8. 9. 9. 1. 1. 1. 1. 2. 2. 2. 3. 4. 4. 5. 6. 7. 8. 9. 9. 1. 1. 1. 1. 1. 1. 1. 1	20 20.5 10.5 3	<u>x</u> <u>x</u>	OBL OBL FACU	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines less than approximately 3ft (1m) in height.
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s. Ferb Stratum (Plot size:	20 20.5 10.5 3	<u>x</u> <u>x</u>	OBL OBL FACU	Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines less than approximately 3ft (1m) in height.

PHOTO LOG Report Sampling Point Pond 5-WET

Photo Number Pond 5-WET-1

Photo Location Pond 5-WET

Direction W

Date 02/12/2020

Description:

Pond 5 shoreline wetland vegetation



Photo Number Pond 5-WET-2

Photo Location Pond 5-WET

Direction NA

Date 02/12/2020

Description:

Pond 5 soil profile





Appendix D

R=257.00' L=134.41' IN BOOK 10225, VOL. 937 Δ=29°58'01" CHB=S 33°34'46" E Δ=33°40'20" CHD=132.89' CHB=N 35°25'55" W S 18°35'46" E¬ CHD=132.94' R=882.50'~ **−**S 48°34'00" L=200.06' Δ=12°59'24" CHB=N 58°45'46" W CHD=199.65' (c) DECLARATION OF TAKING RECORDED IN LIBER 5710, PAGE 566 (WESTERLY SIDE OF CEDAR SWAMP) (d) AMENDMENT NUMBER 1 TO DECLARATION OF TAKING IN LIBER 5910, PAGE 130 (PLOTTED) RECORD LINES. NO OTHER VARIATIONS OR ENCROACHMENTS. SHEET S-2 15.61' N 28°06'27" E 100.56' N 27°31'23" W 484.82' N 16°48'01" E ∟_{N 11°51'10" E} TAX LOT 393A N 28°54'22" E-- 34.02' FRUITLEDGE ROAD N 16°49'18" E**-⁄** SHEET S-3 N 19°15'35" E'54'29" E— 65.47' 75.09' N 36°33'52" E₇51'06" E 85.45' 25.00'35'07" E L_{N 8°21'36"} E 27.02' N 1°34'12" W J 81.32' **CEDAR SWAMP ROAD** (WIDTH VARIES) N 17°05'07" E— 69.62' L_{N 71°02'03"} W 223.04'

General Notes:

- THIS SURVEY IS BASED UPON FIELD INVESTIGATIONS AND SURVEYS CONDUCTED BY VHB ENDING ON OCTOBER, 2018 AND UPDATED ON 2/29/2020 BY AND/OR UNDER THE DIRECT SUPERVISION OF THE SIGNED LICENSED SURVEYOR.
- 1. THE HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (CORS EPOCH 2011)) THE PROJECTION IS NEW YORK – LONG ISLAND (3104).
- 2. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). 3. ALL UNITS SHOWN HEREON ARE US SURVEY FEET, IN WHOLE OR DECIMAL VALUES. 1 METER = 39.37/12 SURVEY FEET. 4. THE SYMBOLS SHOWN ON THIS SURVEY, INCLUDING TREES, ARE REPRESENTATIONAL BASED UPON A SINGLE SURVEY POINT
- AND DO NOT REPRESENT THE ACTUAL DIMENSION OF THE OBJECT. 5. THE PROPERTY IN QUESTION (PIQ) IS LOCATED OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEPICTED ON THE
- FIRMS 36059C0133G & 36059C0145G EFFECTIVE DATE 9/11/2009 (NOT PRINTED) 6. WETLAND BOUNDARY AS DELINEATED BY VHB ENGINEERING, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, P.C., ON FEBRUARY 12, 2020. SURVEYD ON FEBRUARY 24, 2020 BY VHB.

Boundary Notes:

THIS SURVEY IS HEREBY CERTIFIED TO:

- TITAN TAM, LLC, A NEW JERSEY LIMITED LIABILITY COMPANY, SEGME TAM LLC, A NEW JERSEY LIMITED LIABILITY COMPANY, INTERIM ASSET FUNDING LLC, ITS SUCCESSORS AND/OR ASSIGNS, METROPOLITAN ABSTRACT CORPORATION,
- CERTIFICATE OF TITLE: METROPOLITAN ABSTRACT CORPORATION, TITLE NO. N349541
- TITLE VESTED IN: TAM O'SHANTER CLUB, INC.

• GIORDANO AND HALLERAN & CIESLA, P.C.

- SCHEDULE A -- SOURCE OF TITLE: METROPOLITAN ABSTRACT CORPORATION, TITLE NO. N349541 74 FRUITLEDGE ROAD, BROOKVILLE, NEW YORK, SECTION 16, BLOCK C
- LOT # 359,386A,386D & 386E • DEED BETWEEN BARBARA BEANCY AND TOM O'SHANTER CLUB, INC. DATED JUNE 30, 1992, RECORDED NOVEMBER 19, 1992

SCHEDULE B II – EXCEPTIONS:

- 1. EXCEPTIONS 1-3 (NOT SURVEY RELATED) I. 4(a) WATER EASEMENT RECORDED IN BOOK 7018, PG. 197. POLICY WILL INSURE NO PORTION OF THE IMPROVEMENTS LIE WITHIN THE AFFECTED EASEMENT AREA. (PLOTTED)
- II. 4(b) RIGHTS AND EASEMENTS ACQUIRED BY THE UNITED STATES OF AMERICA AS SET FORTH IN THE FOLLOWING (a) ORDER FOR IMMEDIATE POSSESSION RECORDED IN LIBER 5544, PAGE 314 (WESTERLY SIDE OF CEDAR SWAMP) (b) ORDER FOR IMMEDIATE POSSESSION RECORDED IN LIBER 5658, PAGE 566 (WESTERLY SIDE OF CEDAR SWAMP)
- (e) AMENDMENT TO DECLARATION OF TAKING IN LIBER 6006, PAGE 129 (PLOTTED) III. 4(c) TELECOM EASEMENT AGREEMENT RECORDED IN BOOK 13431, PG. 111 AND ASSIGNMENT AND ASSUMPTION OF LEASE AGREEMENT IN VOL 13431, PG 126 (PLOTTED)
- IV. 4(d) SECOND ASSIGNMENT AND ASSUMPTION OF LEASE AGREEMENT IN VOL. 13497, PG 382 FROM LANDMARK INFRASTRUCTURE HOLDING COMPANY LLC TO LD ACQUISITION COMPANY 14 LLC (NOT PROTRACTIBLE) V. 4(e) MEMORANDUM OF BUILDING AND ROOFTOP LEASE AGREEMENT RECORDED IN VOL. 13403, PG.472 (NOT

PROTRACTIBLE)

VI. EXCEPTIONS 5-13 (NOT SURVEY RELATED) VII. 14. SURVEY MADE BY O'CONNOR-PETITO, LLP DATED DECEMBER 15, 2006 AND UPDATED MAY 31, 2017, SHOWS PREMISES IMPROVED BY A BRICK ONE (1) AND TWO (2) STORY CLUBHOUSE WITH A TWO (2) AND ONE (1) STORY BUILDING TO ITS EASTERLY SIDE. ONE (1) STORY BRICK BUILDING TO THE SOUTHWESTERLY SIDE OF CLUBHOUSE. VARIOUS BUILDINGS AND SHEDS SHOWN TO THE WESTERLY SIDE. VARIOUS ONE (1) STORY BRICK BUILDINGS, CONCRETE PATIO, INGROUND POOL AND SIX (6) TENNIS COURTS SHOWN TO NORTHEASTERLY PORTIONS OF PREMISES. CONCRETE BLOCK ONE (1) STORY GARAGES, GREENHOUSES AND STORAGE CONTAINER SHOWN TO NORTHERLY PORTION OF PREMISES. TWO (2) STORY FRAME RESIDENCE WITH CONCRETE PATIO AND SHED BEHIND, SHOWN TO NORTHERLY PORTION OF PREMISES. SOUTHERLY PORTION OF PREMISES IS A GOLF COURSE. ASPHALT PARKING LOT, WALKS, ASPHALT AREAS, BELGIAN BLOCK CURBS, FENCES, TIMBER RETAINING WALLS, PLANTERS AND BRICK RETAINING WALLS SHOWN ALONG PORTIONS OF PREMISES. UTILITY POLES WITH OVERHEAD WIRES SHOWN ALONG PORTIONS OF PREMISES AND EXTENDING TO BUILDINGS. VARIATIONS SHOWN BETWEEN FENCES, DRIVEWAY, CURBS AND PARTS OF

> Survey of Property of Tam O'Shanter **Golf Course** Situated at, Inc. Village of Brookville Town of Oyster Bay Nassau County, **New York**

Engineering, Surveying,

Landscape Architecture

100 Motor Parkway

Hauppauge, NY 11788

and Geology, PC

631.787.3400

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THE SURVEY

MAP NOT BEARING THE LAND SURVEYOR'S SIGNATURE AND INKED SEAL OR

NEW YORK STATE CERTIFICATE OF AUTHORIZATION # 001389

EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE VALID TRUE COPIES.

N.C.T.M. NO. SEC.16 BLK.C LOTS 386A, 386D, 386E and 359 74 Fruitledge Rd Glen Head, NY 11545

Added Wetlands / Misc Topo / Notes

December 5, 2018

Overall Boundary

J R LEMUEL MORRISON NYS LIC. NO. 50404

26747.00

FOR BOUNDARY PERIMETER DETAIL AND SITE IMPROVEMENTS SEE SHEETS 2 AND 3

PARCEL DATA = 6,482,509 SF/148.82 ACRES

SCALE IN FEET

LSA LANDSCAPED AREA EOP EDGE OF PAVEMENT CONCRETE CURB BITUMINOUS CURB

Legend

D DRAIN MANHOLE ■ CATCH BASIN SEWER MANHOLE ELECTRIC MANHOLE

MANHOLE

FIRE HYDRANT

 □ LIGHT POLE -O- UTILITY POLE

GUY POLE GUY WIRE

WELL WELL

WF P1-100 🛆 WETLAND FLAG / NUMBER

→ STREET SIGN

MONITORING WELL FLOOD LIGHT

FF FINISHED FLOOR ELEVATION

DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE SYL SINGLE YELLOW LINE

HH HAND HOLE

WATER GATE

TELEPHONE MANHOLI

— Ţ GUARD RAIL ———— STOCKADE FENCE

TREE LINE



Engineering, Surveying, Landscape Architecture and Geology, PC 100 Motor Parkway Hauppauge, NY 11788 631.787.3400

NEW YORK STATE CERTIFICATE OF AUTHORIZATION # 001389 UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THE SURVEY MAP NOT BEARING THE LAND SURVEYOR'S SIGNATURE AND INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE VALID TRUE COPIES.

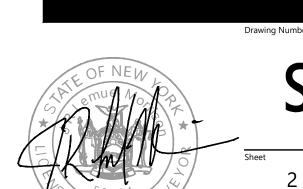
Survey of Property of Tam O'Shanter **Golf Course** Situated at, Inc. Village of Brookville Town of Oyster Bay Nassau County, **New York**

N.C.T.M. NO. SEC.16 BLK.C LOTS 386A, 386D, 386E and 359 74 Fruitledge Rd Glen Head, NY 11545

1 Added Wetlands / Misc Topo / Notes

December 5, 2018

Topographic Plan



J R LEMUEL MORRISON NYS LIC. NO. 50404

Project Number 26747.00

SCALE IN FEET

____ _ GUARD RAIL → CHAIN LINK FENCE ———— STOCKADE FENCE

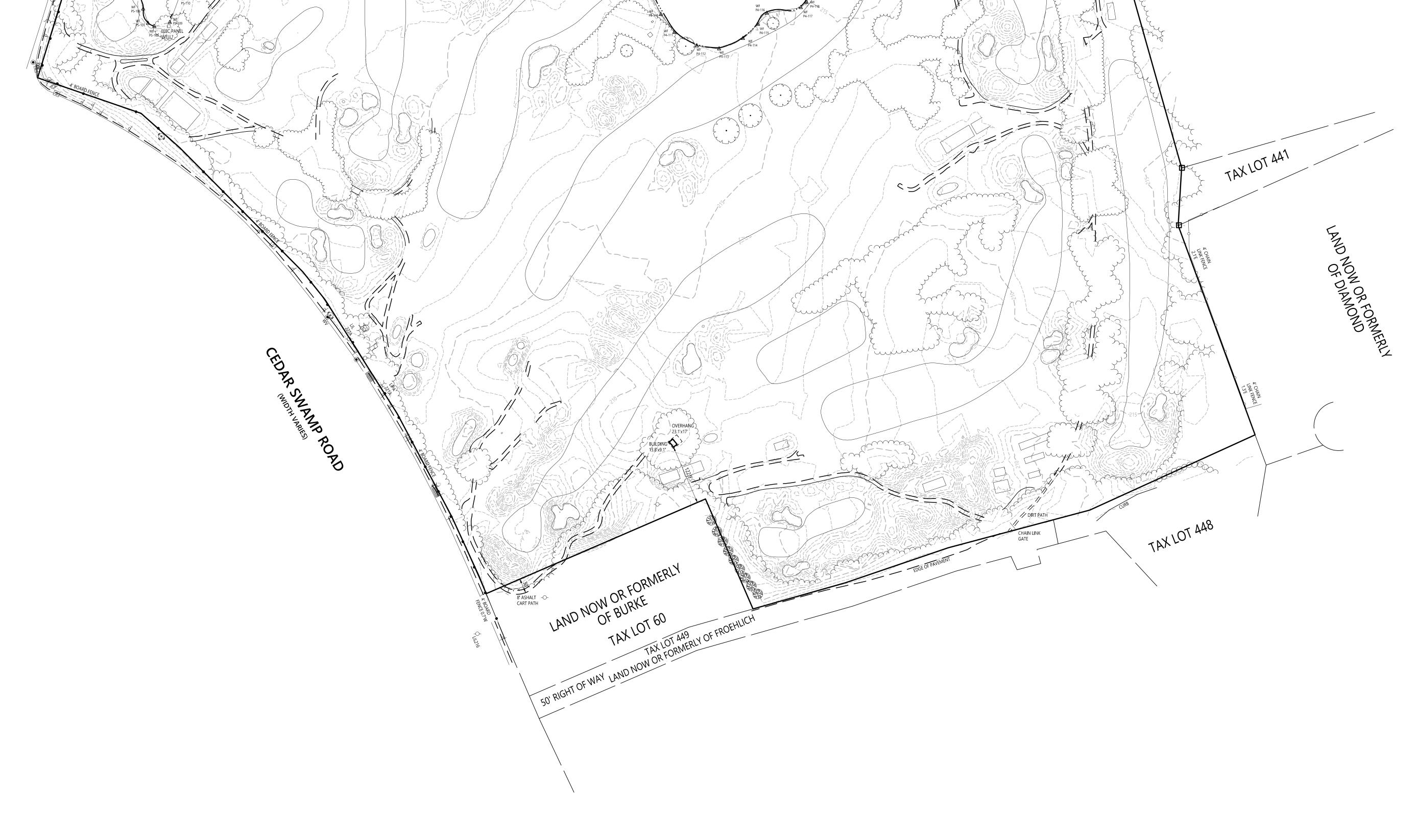
TREE LINE

Landscape Architecture and Geology, PC 100 Motor Parkway Suite 135 Hauppauge, NY 11788 631.787.3400

Engineering, Surveying,

NEW YORK STATE CERTIFICATE OF AUTHORIZATION # 001389

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MATCH LINE SEE SHEET S-2

HORSE TRAIL
SIGN ON TREE
(NO DEFINED
TRAIL VISIBLE)

TAX LOT 436

Survey of Property of Tam O'Shanter **Golf Course** Situated at, Inc. Village of Brookville Town of Oyster Bay Nassau County, **New York**

N.C.T.M. NO. SEC.16 BLK.C LOTS 386A, 386D, 386E and 359 74 Fruitledge Rd Glen Head, NY 11545

December 5, 2018

Topographic Plan



J R LEMUEL MORRISON NYS LIC. NO. 50404

Project Number 26747.00

BITUMINOUS CURB ->------> CHAIN LINK FENCE TREE LINE

SCALE IN FEET

———— STOCKADE FENCE -онw--- OVERHEAD WIRE

Legend

D DRAIN MANHOLE

CATCH BASIN

S SEWER MANHOLE

E ELECTRIC MANHOLE

TELEPHONE MANHOLE

MANHOLE

HH□ HAND HOLE

WATER GATE

FIRE HYDRANT

GAS GATE

BOLLARD w/LIGHT

STREET SIGN

→ STREET SIGN □ LIGHT POLE

-O- UTILITY POLE GUY POLE ✓ GUY WIRE

W WELL

EOP EDGE OF PAVEMENT CONCRETE CURB

MONITORING WELL FLOOD LIGHT

WF P1-100 🛆 WETLAND FLAG / NUMBER

FF FINISHED FLOOR ELEVATION

DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE SYL SINGLE YELLOW LINE LSA LANDSCAPED AREA



Appendix E





Subject Property

1 Pond Designation
Photograph Location and Direction

Photograph Location Map 74 Fruitledge Road Village of Brookville, Town of Oyster Bay Nassau County, New York





Photograph 1: View of Pond 1, facing south (February 12, 2020).



Photograph 2: View of Pond 2, facing southwest (February 12, 2020).





Photograph 3: View of Pond 3, facing south (February 12, 2020).



Photograph 4: View of Pond 4, facing southwest (February 12, 2020).





Photograph 5: View of Pond 5, facing north (February 12, 2020).



Appendix F



February 27, 2020

Mr. Ronald Pinzon Chief, Eastern Permit Section New York District United States Army Corps of Engineers 26 Federal Plaza, Room 1937 New York, NY 10278-0090

Re: Tam O'Shanter Golf Club

74 Fruitledge Road Village of Brookville Nassau County, New York

Dear Mr. Pinzon:

As owner of the above-referenced property and the permit applicant, please accept this letter as authorization for VHB Engineering, Surveying, Landscape Architecture and Geology, P.C., with offices at 100 Motor Parkway, Suite 350, Hauppauge, New York 11788, to serve as the agent in the filing and processing of all documentation related to the above-referenced matter. Your cooperation is greatly appreciated.

Sincerely

Robert Weiss

Managing Member