Appendix A EA Distribution List

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EA DISTRIBUTION LIST

U.S. Army Corps of Engineers Buffalo District 1776 Niagara Street Buffalo, NY 14207-3199

Border Patrol Facilities and Tactical Infrastructure 6650 Telecom Drive Indianapolis, IN 46278

Ms. Felicia Johnson HQ AFRC 549 Pine Street, Bldg #549 Robins AFB, GA 31092

City of Niagara Falls P.O. Box 69 Niagara Falls, NY 14302-0069

Hon. Robert B. Cliffe, Supervisor Upper Level – Town Hall 2800 Church Road Wheatfield, NY 14120-1099

Executive Director Niagara County Historical Society 215 Niagara St Lockport, NY 14094

Executive Director Preservation Buffalo Niagara 617 Main St Market Arcade, Suite M108 Buffalo, NY 14203

Mr. Steven C. Richards, Supervisor Town of Niagara 7105 Lockport Road Niagara Falls, NY 14305

Honorable Barry E. Snyder, Sr., President Seneca Nation of Indians Wm. Seneca Building 12837 Route 438 Irving, NY 14081 Chief William Fisher Seneca-Cayuga Tribe of Oklahoma R2301 E Steve Owens Blvd P.O. Box 1283 Miami, OK 74355

Chief Roger Hill Tonawanda Seneca Nation 7027 Meadville Rd via Basom, NY 14013

Chief Leo Henry Tuscarora Nation 2006 Mt Hope Rd via Lewiston, NY 14092

Ms. Ruth Pierpont, Director New York State Historic Preservation Office Peebles Island Resource Center P.O. Box 189 Waterford, NY 12188-0189

Mr. David A. Stilwell Field Supervisor U.S. Fish and Wildlife Service 3817 Luker Road Cortland, NY 13045

Tara Salerno
Information Services
New York State Department of
Environmental Conservation
Division of Fish, Wildlife, and Marine
Resources
New York Natural Heritage Program—
Information Services
625 Broadway, 5th Floor
Albany, NY 12233-4757

Ms. Abby Snyder Regional Director New York State Department of Environmental Conservation–Region 9 270 Michigan Avenue Buffalo, NY 14203

Libraries

Niagara Falls Public Library Earl W. Brydges Building 1425 Main Street Niagara Falls, NY 14305

Niagara Falls Public Library LaSalle Branch 8728 Buffalo Avenue Niagara Falls, NY 14304

Appendix B Agency Correspondence

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MAY 0 9 2012



Ms. Tara Salerno
Information Services
New York State Department of Environmental Conservation
Division of Fish, Wildlife, and Marine Resources
New York Natural Heritage Program—Information Services
625 Broadway, 5th Floor
Albany, NY 12233-4757

Dear Ms. Salerno:

U.S. Customs and Border Protection (CBP) proposes to construct, operate, and maintain a new Border Patrol Station (BPS) in the U.S. Border Patrol's Buffalo Sector, Niagara Area of Responsibility (AOR). The new BPS would replace the existing Niagara AOR BPS. CBP is requesting information regarding the known presence of threatened or endangered species or significant natural communities in the vicinity of three site alternatives that are being considered in the Town of Niagara, Niagara County, New York.

Site 1 is a 12.3-arce parcel located on the Niagara Falls Air Reserve Station in the Town of Niagara that is currently unused and is zoned Light Industrial. Site 2 is a 12-acre parcel located in the Town of Niagara on Williams Road south of the intersection of Williams Road and Niagara Falls Boulevard (US Route 62). The site is vacant, flat, and sparsely covered with grasses and some trees, and is zoned General Commercial. Site 3 is a 46.7-acre parcel located in the Town of Niagara on Tuscarora Road close to the preferred location. The site is vacant, flat, and grass covered. It is currently used as farmland and zoned Heavy Industrial. The boundaries of each site are depicted on the enclosed site map (enclosure 1). Approximate latitude and longitude coordinates for the sites are provided below.

Sites	Latitude	Longitude
Site 1 – Preferred Alternative - Air Reserve Station	43°07'11.5" N	-78°57'03.0" W
Site 2 – Alternative 2 - Williams Road	43°05'48.4" N	-78°56'32.9" W
Site 3 – Alternative 3 - Tuscarora Road	43°07'05.2" N	–78°57'17.5" W

As part of the environmental review and planning process, CBP requests your input in identifying known threatened or endangered species or significant natural communities in the vicinity of the selected property. CBP is seeking similar information from the New York State Department of Environmental Conservation–Region 9 and the U.S. Fish and Wildlife Service.

If you require additional information or have any questions, please contact Ms. Loretta Whitacre at (202) 344-1726 or by e-mail at Loretta. Whitacre@dhs.gov, or at the address below.

U.S. Customs and Border Protection Ms. Loretta L. Whitacre EPA West / B155 1301 Constitution Ave. NW Washington, DC 20004

Thank you for your cooperation.

Sincerely,

Christopher J. Colacicco

Director

Real Estate and Environmental Services Division Border Patrol Facilities and Tactical Infrastructure

Program Management Office

Enclosure

Proposed Locations for New BPS Niagara, NY

Source: AEX 2007.

MAY 0 9 2012



Ms. Abby Snyder Regional Director New York State Department of Environmental Conservation–Region 9 270 Michigan Avenue Buffalo, NY 14203

Dear Ms. Snyder:

U.S. Customs and Border Protection (CBP) proposes to construct, operate, and maintain a new Border Patrol Station (BPS) in the U.S. Border Patrol's Buffalo Sector, Niagara Area of Responsibility (AOR). The new BPS would replace the existing Niagara AOR BPS. CBP is requesting information regarding the known presence of threatened or endangered species or significant natural communities in the vicinity of three site alternatives that are being considered in the Town of Niagara, Niagara County, New York..

Site 1 is a 12.3-arce parcel located on the Niagara Falls Air Reserve Station in the Town of Niagara that is currently unused and is zoned Light Industrial. Site 2 is a 12-acre parcel located in the Town of Niagara on Williams Road south of the intersection of Williams Road and Niagara Falls Boulevard (US Route 62). The site is vacant, flat, and sparsely covered with grasses and some trees, and is zoned General Commercial. Site 3 is a 46.7-acre parcel located in the Town of Niagara on Tuscarora Road close to the preferred location. The site is vacant, flat, and grass covered. It is currently used as farmland and zoned Heavy Industrial. The boundaries of each site are depicted on the enclosed site map (enclosure 1). Approximate latitude and longitude coordinates for the sites are provided below.

Sites	Latitude	Longitude
Site 1 – Preferred Alternative - Air Reserve Station	43°07'11.5" N	-78°57'03.0" W
Site 2 – Alternative 2 - Williams Road	43°05'48.4" N	-78°56'32.9" W
Site 3 – Alternative 3 - Tuscarora Road	43°07'05.2" N	-78°57'17.5" W

As part of the environmental review and planning process, CBP requests your input in identifying known threatened or endangered species or significant natural communities in the vicinity of the selected property. CBP is seeking similar information from the New York State Department of Environmental Conservation, Natural Heritage Program and the U.S. Fish and Wildlife Service.

If you require additional information or have any questions, please contact Ms. Loretta Whitacre at (202) 344-1726 or by e-mail at Loretta. Whitacre@dhs.gov, or at the address below.

U.S. Customs and Border Protection Ms. Loretta L. Whitacre EPA West / B155 1301 Constitution Ave. NW Washington, DC 20004

Thank you for your cooperation.

Sincerely,

Christopher J. Colacicco

Director

Real Estate and Environmental Services Division Border Patrol Facilities and Tactical Infrastructure Program Management Office

Enclosure

Proposed Locations for New BPS Niagara, NY



Mr. David A. Stilwell Field Supervisor U.S. Fish and Wildlife Service 3817 Luker Road Cortland, NY 13045

Dear Mr. Stilwell:

The U.S. Customs and Border Protection (CBP) proposes to construct, operate, and maintain a new Border Patrol Station (BPS) in the USBP's Buffalo Sector, Niagara Area of Responsibility (AOR). The new BPS would replace the existing Niagara AOR BPS. CBP is requesting information regarding the known presence of threatened or endangered species or significant natural communities in the vicinity of three site alternatives that are being considered in the Town of Niagara, Niagara County, New York.

Site 1 is a 12.3-arce parcel located on the Niagara Falls Air Reserve Station in the Town of Niagara that is currently unused and is zoned Light Industrial. Site 2 is a 12-acre parcel located in the Town of Niagara on Williams Road south of the intersection of Williams Road and Niagara Falls Boulevard (US Route 62). The site is vacant, flat, and sparsely covered with grasses and some trees, and is zoned General Commercial. Site 3 is a 46.7-acre parcel located in the Town of Niagara on Tuscarora Road near the preferred location. It is vacant, flat, and grass covered, is currently used as farmland, and is zoned Heavy Industrial. The boundaries of each site are depicted on the enclosed aerial location map (Figure 2-1). Approximate latitude and longitude coordinates for the sites are provided below.

Site	Latitude	Longitude	
Site 1 – Preferred Alternative - Air Reserve Station	43°07'11.5" N	-78°57'03.0" W	
Site 2 – Alternative 2 - Williams Road	43°05'48.4" N	-78°56'32.9" W	
Site 3 – Alternative 3 - Tuscarora Road	43°07'05.2" N	-78°57'17.5" W	

The Site 1 parcel is an approximately 12.3-acre vacant grass-covered lot within the boundaries of the Niagara Falls ARS (Figure 2-2). The habitat is primarily successional old field and includes some small tributaries with fringing palustrine emergent wetlands (PEM) in the center of the site, and a previously delineated PEM wetland located along the southern site boundary. Dominant species within the old field habitat include Timothy grass (*Phleum pratense*), red clover (*Trifolium pratense*), bull thistle (*Cirsium vulgare*), and other common lawn grasses. The parcel is mowed. Hydric vegetation is present along the margins of the drainages and within the emergent wetland. Hydric vegetation includes cattails (*Typha* spp.), soft rush (*Juncus effusus*), broom sedge (*Carex tribuloides*), and redtop (*Agrostis gigantea*).

The Site 2 parcel is an approximately 12-acre vacant lot bordered to the north by Niagara Falls Boulevard and to the east by Williams Road. Site 2 is located south of the Niagara Falls ARS (Figure 2-3), immediately east of a highly developed residential area. Site 2 includes the following habitat types: successional old field, mowed lawn, successional northern hardwood, and brushy cleared land. The successional old field habitat, which comprises the majority of Site 2, is dominated by Timothy grass, red clover, and other common lawn grasses. Evidence of prior site development and disturbance was noted in the western portion of the site during the field reconnaissance survey (e.g., fire hydrant, utility poles). The mowed lawn habitat is adjacent to residential homes bordering the western boundary of the site and includes scattered trees. A small area of successional northern hardwood forest dominated by green ash (*Fraxinus pennsylvanica*), was identified in the southeast corner of the parcel; this portion of the parcel was inundated at the time of the survey, preventing identification of shrub and herbaceous understory species. The southwest corner was identified as shrubby cleared land dominated by honeysuckle (*Lonicera* spp.) and assorted turf grasses.

The Site 3 parcel is an approximately 46.7-acre parcel immediately west of the Niagara Falls ARS, on the west side of Tuscarora Road. Site 3 included cropland and brushy cleared land. The northern half of the site is cropland/field crop habitat and was growing wheat at the time of the survey. A drainage ditch in the center of this agricultural field flows from north to south, draining into a larger ditch running east-west in the central portion of the parcel (Figure 2-2). An abandoned drag racing strip and numerous associated impermeable surfaces are located in the southern half of the property. This portion of the site is covered with secondary successional growth, consisting of dense shrubs, which include gray dogwood (*Cornus racemosa*), honeysuckle, and black willow (*Salix nigra*). In addition, drainage and potential wetland areas are present throughout this half of Site 3, with cattails being the dominant species.

The CBP has contracted with Tetra Tech, Inc., to complete an environmental assessment of the three potential sites for the new BPS in compliance with the National Environmental Policy Act, and to conduct other required surveys and studies.

As part of that process, a USFWS online Endangered Species Program database search for the occurrence of Endangered Species Act (ESA)-listed species was conducted for Niagara County, New York. Although no ESA species were listed in the USFWS Endangered Species Program database, the List of Threatened, Endangered, Proposed, and Candidate Species in New York available on the New York Field Office website lists two species for Niagara County, including the bald eagle (*Haliaeetus leucocephalus*) and eastern prairie fringed orchid (*Platanthera leucophea*). The eastern prairie fringed orchid is listed as federally threatened, and the bald eagle has been delisted. However the bald eagle remains protected under the Bald and Golden Eagle Protection Act. Below are brief descriptions of suitable habitats for these species.

The bald eagle is a state-listed threatened species and a recently federally delisted species that is commonly found close to bays, rivers, lakes, or other bodies of water that reflect the general availability of their primary food sources – fish and waterfowl. They tend to avoid areas with nearby human activity (boat traffic, pedestrians) and development (buildings). Perch sites are typically in deciduous and coniferous trees. Nest trees include pines, spruce, firs, cottonwoods,

oaks, poplars, and beech. Wintering areas are most commonly associated with open water. During the winter, bald eagles may associate with waterfowl concentrations or congregate in areas with abundant dead fish. Roost sites are typically in conifers or other sheltered areas. Although there are two large reservoirs and the Niagara River located near the proposed BPS Sites, no suitable perching, roosting, or nesting habitat was observed. Based on a review of bald eagle habitat requirements and the site assessment, the proposed sites were determined to be unsuitable habitat for the Bald Eagle.

The eastern prairie fringed orchid is a federally listed threatened species. It is an herbaceous plant found in mesic to wet prairies and wet sedge meadows. Peripheral habitat includes sedge-sphagnum bog mats around neutral pH kettle lakes, and fallow agricultural fields. Wet ditches and railroad Right-of-Ways also serve as refugia. Based on a review of eastern prairie fringed orchid habitat requirements and habitat surveys, marginal habitat for the eastern prairie fringed orchid may be present within the wet ditches and cropland when fallow. However, based on the current and previous disturbance within the sites and historical nature of the listing, no impacts to the eastern prairie fringed orchid are expected as a result of the project.

CBP is requesting your review and concurrence that the proposed project will not impact federally protected species, their critical habitat, or significant biological or geological features. To assist you with your evaluation we have also enclosed aerial photographs and a photographic log documenting site conditions.

If you require additional information or have any questions, please contact Loretta Whitacre at (202) 344-1726 or by e-mail at Loretta. Whitacre@dhs.gov, or at the address below.

U.S. Customs and Border Protection Ms. Loretta L. Whitacre EPA West / B155 1301 Constitution Ave. NW Washington, DC 20004

Thank you for your assistance in this matter.

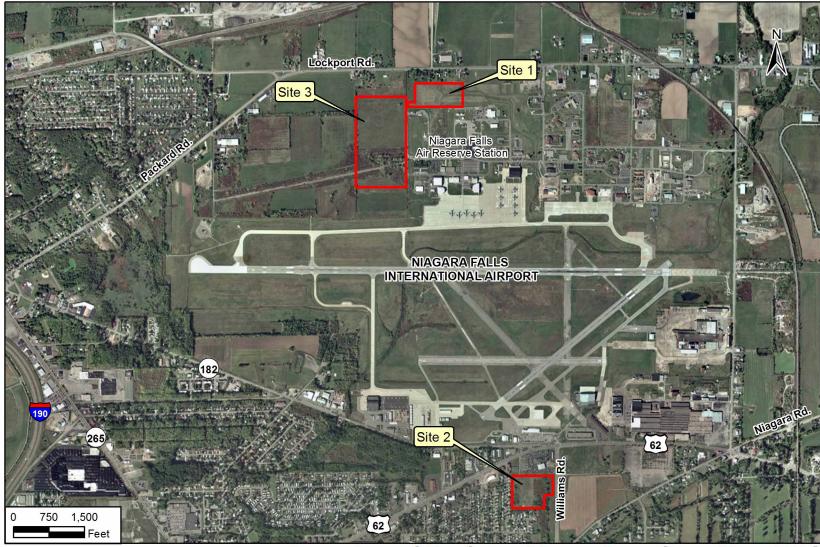
Sincerely,

Christopher J. Colacicco

Director

Real Estate and Environmental Services Division Border Patrol Facilities and Tactical Infrastructure Program Management Office

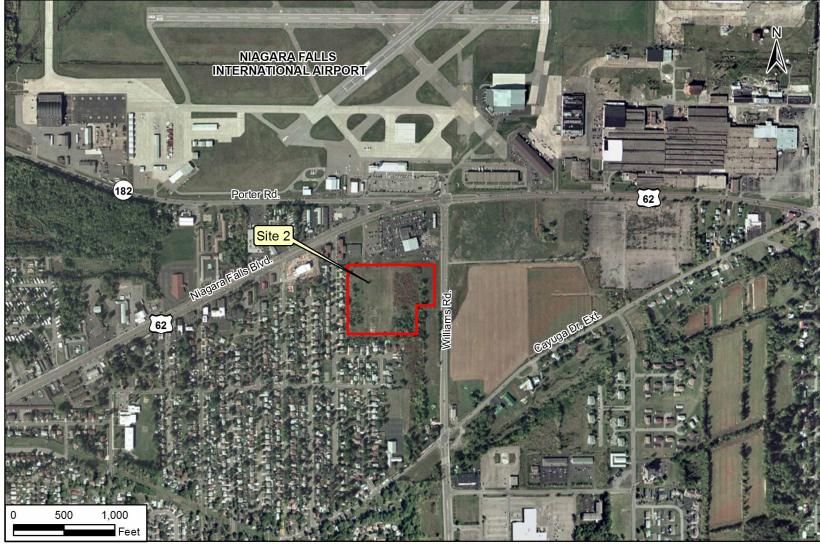
Enclosures



Location of Preferred Locations for a New BPS



Aerial View of the Alternative 1 Parcel (Niagara Falls Air Reserve Station) and the Alternative 3A Parcel (Tuscarora Road West)



Aerial View of Alternative 2 Parcel (Williams Road)

Company: United States Customs and Border Protection

Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 1
Direction: E
Comments:

Site 1 - old field along drainage in eastern portion of site.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 2 Direction: E

Comments:

Site 1 - previously delineated wetland within southern portion of site.

Company: United States Customs and Border Protection

Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 3
Direction: E

Comments:

Site 2 – wooded area in southeast portion of site. Tree density becomes greater to the right of photograph.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 4
Direction: W
Comments:

Site 2 – residential area to west of site. Evidence of disturbance can be seen on left side of photograph in the background.

Company:United States Customs and Border ProtectionProject:Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 5
Direction: W

Comments:

Site 3 – active agricultural field in northern portion of site.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 6

Direction: SW

Comments:

Site 3 – abandoned drag racing strip in southern portion of site. Presence of water is due to impermeable surface.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

3817 Luker Road Cortland, NY 13045

June 27, 2014

Ms. Heather Conn Tetra Tech, Inc. 748 Main Street, Suite B Baton Rouge, LA 70802

Dear Ms. Conn:

This is in response to your April 25, 2014, letter requesting U.S. Fish and Wildlife Service (Service) review of the proposed U.S. Customs and Border Protection (CBP) Draft Environmental Assessment (DEA) and Draft Finding of No Significant Impact (FONSI) for the proposed building relocation project within or near the boundary of the Niagara Falls Air Reserve Station (NFARS) located in the Towns of Niagara and Wheatfield, Niagara County, New York. Three sites are being considered for the relocation and include: 1) a 12.3-acre parcel within the boundaries of the NFARS; 2) a 12-acre parcel located near Niagara Falls Boulevard and Williams Road; and 3) a 46.7-acre parcel located on Tuscarora Road.

The Service provided comments pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Bald and Golden Eagle Protection Act (BGEPA) (16 U.S.C. 668-668d), the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712; Ch. 128; July 13, 1918; Stat. 755), and the Fish and Wildlife Coordination Act (FWCA) (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) in a letter addressed to Mr. Christopher Colacicco, U.S. Customs and Border Protection, dated September 19, 2012.

After review of the DEA and the Draft FONSI, the Service's recommendations remain unchanged since our 2012 letter (enclosed). Alternative 1 contains a Federal jurisdictional wetland that may be impacted as a result of this project and also contains a unique terrestrial crayfish (*Cambarus diogenes*), designated a New York State Species of Greatest Conservation Need. We encourage the CBP to consider alternative locations, such as Alternatives 2 and 3 that are absent of on-site wetlands and potentially a high density of crayfish.

Thank you for the opportunity to comment on the proposed project. Please contact Noelle Rayman at 607-753-9334 if there are any questions regarding this letter and reference file number(s) 12CPA0227.

Sincerely,

David A. Stilwell Field Supervisor

Anned, Second

*Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm

Enclosure

cc: CBP, Washington, DC (L. Whitacre)

NFARS, Niagara Falls, NY (J. Mathews) NYSDEC, Buffalo, NY (K. Roblee) USFWS, Amherst, NY (B. Trometer) USACE, Buffalo, NY (D. Leput)



United States Department of the Interior



FISH AND WILDLIFE SERVICE

3817 Luker Road Cortland, NY 13045

September 19, 2012

Christopher J. Colacicco, Dir. Real Estate and Environmental Services Division U.S. Customs and Border Protection 1300 Pennsylvania Avenue NW Washington, DC 20229

Dear Mr. Colacicco:

This is in response to your July 2, 2012, letter requesting U.S. Fish and Wildlife Service (Service) review of the proposed U.S. Customs and Border Protection (CBP) building relocation project within or near the boundary of the Niagara Falls Air Reserve Station (NFARS) located in the Towns of Niagara and Wheatfield, Niagara County, New York. Three sites are being considered for the relocation and include: 1) a 12.3-acre parcel within the boundaries of the NFARS; 2) a 12-acre parcel located near Niagara Falls Boulevard and Williams Road; and, 3) a 46.7-acre parcel located on Tuscarora Road.

We offer the following comments pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Bald and Golden Eagle Protection Act (BGEPA) (16 U.S.C. 668-668d); the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712; Ch. 128; July 13, 1918; Stat. 755); and, the Fish and Wildlife Coordination Act (FWCA) (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*).

Endangered Species Act

There is one federally listed species that historically occurred in Niagara County: the eastern prairie fringed orchid (*Platanthera leucophaea*, Threatened). Pursuant to Section 7(a)(2) of the ESA, the CBP has determined that the project will have no effect on this species, as the sites under consideration do not contain appropriate habitat. Therefore, no further consultation is required under the ESA.

Should project plans change, or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered. The most recent compilation of federally listed and proposed endangered and threatened species in New York is available for your information. Until the proposed project is complete, we recommend that you check our website every 90 days from the date of this letter to ensure that listed species presence/absence information for the proposed project is current.*

Bald and Golden Eagle Protection Act and Migratory Bird Treaty Act

The bald eagle (*Haliaeetus leucocephalus*) is also found in the county. As you are aware, bald eagles have been delisted pursuant to the ESA, but remain protected under the MBTA, BGEPA, and by the State of New York. The CBP has determined that the project will have no effect on this species, as the sites under consideration also do not contain appropriate habitat for nesting eagles, nor are nests in the vicinity of the project area. Therefore, no further coordination is required under the BGEPA or MBTA. However, if bald eagles are found within the project area in the future, the Service recommends that CBP follow the Bald Eagle Management Guidelines found on our website.

The above-listed species are also listed by the State of New York. Any additional information regarding the proposed project and its potential to impact listed species should be coordinated with both this office and with the New York State Department of Environmental Conservation.

Fish and Wildlife Coordination Act

The NFARS property consists of developed lands, upland areas, and emergent wetlands. Based on wetland surveys conducted in 2008 (USFWS 2010), the NFARS supports 10 Federal jurisdictional wetlands (29 acres total) that provide various ecological functions and values including floodflow alteration, groundwater recharge/discharge, sediment/toxicant retention, nutrient removal, and wildlife habitat.

Of particular concern are impacts that may result from construction on proposed Site 1, part of which was confirmed a Federal jurisdictional wetland by the U.S. Army Corps of Engineers (USFWS 2010). This wetland (NFARS Wetland X) is approximately 0.57 acres and encompasses a small tributary that flows into the NFARS to Cayuga Creek. The ecological functions and values of this wetland include "groundwater recharge/discharge; floodflow alteration; fish/shellfish habitat; production export; recreation, and educational/scientific value, uniqueness due to the presence of the terrestrial devil crayfish (Cambarus diogenes, a New York State Species of Greatest Conservation Need); visual quality/aesthetics; and wildlife habitat (for amphibians, crustaceans and grassland birds)" (USFWS 2010).

The proposed activities may impact the ecological functions and values of the wetland and associated tributary by altering wetland hydrology; introducing contaminated surface water runoff from pesticides, herbicides, fertilizers, road deicers, etc.; increasing sedimentation to the tributary, thereby reducing fish habitat; and, death/injury of devil crayfish from construction. Therefore, we encourage the CBP to consider alternative, non-wetland associated locations for the building relocation to preserve the continued integrity of Wetland X.

Thank you for the opportunity to comment on the proposed project. Please contact Noelle Rayman at 607-753-9334 if there are any questions regarding this letter and reference File number 12CPA0227.

Sincerely,

David A. Stilwell Field Supervisor

Anned Second

*Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm

References:

U.S. Fish and Wildlife Service. 2010. Reevaluation of Wetland Boundaries, Functions, and Values of the Niagara Falls Air Reserve Station, Niagara Falls, New York. Project Number NMIPRF5J3AA7201G001, U.S. Fish and Wildlife Service Lower Great Lakes Fishery Resources Office, Amherst, New York.

NYSDEC website of Species of Greatest Conservation Need: http://www.dec.ny.gov/animals/9406.html

cc: CBP, Washington, DC (L. Whitacre)
NFARS, Niagara Falls, NY (J. Mathews)
NYSDEC, Buffalo, NY (K. Roblee)
NYSDEC, Allegany, NY
USFWS, Amherst, NY (B. Trometer)
USACE, Buffalo, NY (D. Leput)



New York State Office of Parks, Recreation and Historic Preservation Historic Preservation Field Services Bureau

Peebles Island Resource Center, PO Box 189, Waterford, NY 12188-0189 (Mail) Delaware Avenue, Cohoes 12047 (Delivery)

(518) 237-8643

PROJECT REVIEW COVER FORM

Rev. 5-05

Please complete this form and attach it to the top of any and all information submitted to this office for review. Accurate and complete forms will assist this office in the timely processing and response to your request. This information relates to a previously submitted project. If you have checked this box and noted the previous Project Review (PR) number assigned by this office you do not need to continue unless any of the required information below has PROJECT NUMBER ____PR changed. **COUNTY** Niagara If you have checked this box you will need to Χ complete ALL of the following information. 2. This is a new project. Project Name New US Border Patrol Station - Niagara Falls Location Site 1 - Niagara Falls Air Reserve Station, Site 2 - Williams Road & Niagara Falls Blvd, Site 3 - Tuscarora Road You MUST include street number, street name and/or County, State or Interstate route number if applicable City/Town/Village _ Town of Niagara List the correct municipality in which your project is being undertaken. If in a hamlet you must also provide the name of the town. County Niagara If your undertaking* covers multiple communities/counties please attach a list defining all municipalities/counties included. TYPE OF REVIEW REQUIRED/REQUESTED (Please answer both questions) A. Does this action involve a permit approval or funding, now or ultimately from any other governmental agency? Χ No Yes If Yes, list agency name(s) and permit(s)/approval(s) Agency involved Type of permit/approval State **Federal** USACE 承 П B. Have you consulted the NYSHPO web site at ** http://nysparks.state.ny.us to determine the preliminary presence or absence of previously identified cultural resources within or adjacent to the project area? If yes:

for listing in the NY State or National Registers of Historic Place	ces?
CONTACT PERSON FOR PROJECT	
Name Loretta Whitacre	Title Environmental Planning
Firm/Agency US Customs and Border Protection	
Address 1301 Constitution Ave, NW, Suite B-155	City Washington STATE DC Zip 20229
Phone (202) 344-1726 Fax ()_	E-Mail LORETTA.Whitacre@dhs.gov

Does the project site involve or is it substantially contiguous to a property listed or recommended

Was the project site wholly or partially included within an identified

archeologically sensitive area?

^{**}http://nysparks.state.ny.us then select HISTORIC PRESERVATION then select On Line Resources



Ms. Ruth Pierpont, Director New York State Historic Preservation Office Peebles Island Resource Center P.O. Box 189 Waterford, NY 12188-0189

Dear Ms. Pierpont:

The U.S. Customs and Border Protection (CBP) is preparing an Environmental Assessment (EA) that addresses the potential effects of the proposed construction, operation, and maintenance of a new U.S. Border Patrol Station (USBPS) in CBP Buffalo Sector, Niagara Area of Responsibility (AOR). The proposed USBPS is needed to remedy the current facilities that are inadequate to meet the increasing needs of agency mission to achieving border security. The proposed new station will substantially facilitate the overall efficiency of current operations and allow future expansion, if needed. The new USBPS would replace the existing Niagara AOR USBPS. The

CBP is considering three potential sites in the Town of Niagara, Niagara County, New York, as candidate sites for the new USBPS. Site 1 is a 12.3-arce parcel located on the Niagara Falls Air Reserve Station (ARS). Site 2 is a 12-acre parcel located on Williams Road south of the intersection of Williams Road and Niagara Falls Boulevard (US Route 62). Site 3 is a 46.7-acre parcel located in the Town of Niagara on Tuscarora Road near the preferred location. The proposed project boundary for each site is depicted on the enclosed U.S. Geological Survey (USGS) quadrangle map (Figure 1). Approximate latitude and longitude latitude coordinates for the sites are provided below.

Sites	Latitude	Longitude	
Site 1 – Preferred Alternative - Air Reserve Station	43°07'11.5" N	-78°57'03.0" W	
Site 2 – Alternative 2 - Williams Road	43°05'48.4" N	-78°56'32.9" W	
Site 3 – Alternative 3 - Tuscarora Road	43°07'05.2" N	-78°57'17.5" W	

The proposal to construct, operate, and maintain a USBPS in the Niagara AOR would be in compliance with the *U.S. Customs and Border Protection Design Standard for U.S. Border Patrol* (U.S. Department of Homeland Security, April 2009). The facility would be a modular building or set of buildings with approximately 40,000 square feet of office, garage, and storage space adequate to meet the mission needs of the agents assigned to the station, be designed to standards appropriate to northern climates (e.g., frost layer), and incorporate Leadership in Energy and Environmental Design (LEED) Silver Certified Construction Standards. Impacts will include surface and subsurface ground disturbance, including vegetation clearing and grubbing and topsoil stripping.

CBP has contracted with Tetra Tech, Inc. (Tetra Tech) to complete the aforementioned EA addressing the three potential sites for the new USBPS in compliance with the National Environmental Policy Act and Section 106 of the National Historic Preservation Act (NHPA), and to conduct other required surveys and studies. Tetra Tech has conducted a reconnaissance survey (visual assessment, site walkover, and photo-documentation) and background research (including site file search at the New York Office of Parks, Recreation, and Historic Preservation [OPRHP]) of all areas within the project's Area of Potential Effect (APE). No previously recorded sites are located within the project's APE or within the immediate vicinity.

The Preferred Alternative - Site 1 parcel is an approximately 12.3-acre vacant grass-covered lot within the boundaries of the Niagara Falls ARS. The parcel is located within a residential/rural/light industrial mix and bordered by homes to the north. The buildings immediately adjacent to the parcel are circa mid-20th century vernacular style houses. There are no properties listed or eligible for listing in State/National Register of Historic Places (S/NRHP) within or immediately adjacent to, Site 1 – Preferred Alternative. The nearest S/NRHP listed property is the Town of Niagara District School #2, which is located approximately 400 feet to the north across Lockport Road. The parcel was surveyed for cultural resources in 1998 by Pratt and Huth Associates, LLP (OPRHP Project Review No. 95PR2445). No cultural resources where identified within the parcel and no further cultural resources investigations were recommended. The OPRHP concurred with the recommendations in a letter dated May 12, 2000.

The Alternative Site 2 parcel is an approximately 12-acre vacant lot bordered to the east by Williams Road and to the north by Niagara Falls Boulevard. Alternative Site 2 is located directly adjacent to a highly developed residential/commercial area bordered by private residences to the west and south, an automobile dealership to the north and Williams Road to the east. The residential buildings are circa late-20th century vernacular style houses. There are no S/NRHP-listed or eligible properties within or immediately adjacent to, the Alternative 2 site. The nearest S/NRHP listed property is the Johann Williams Farm, which is located approximately 1,500 feet to the south across Cayuga Road.

No previous cultural resources surveys were conducted of the Alternative Site 2 parcel; however, several surveys have been conducted in the vicinity. Two previously identified archaeological sites or historic places were identified within 1-mile of the Alternative 2 site parcel (see Table 1). According to the OPRHP GIS-Public Access web site, the Alternative 2 parcel is located in an area of archeological sensitivity.

Table 1. Previously identified archaeological or historic places within 1-mile of Alternative Site 2

NYSOPRHP Site #	Additional Site #	Distance to APE m(ft)	Time Period	Site Type
06340.000366	John Williams site, NYSM 10529, UB 2867	485 (1591)	Unidentified precontact	No info
06340.0000365	John Croff Site, NYSM 10528, UB 2866	604 (1982)	Late Archaic, Brewerton	Surface evidence

Source: New York State Office of Parks, Recreation, and Historic Preservation 2012

Background research and field reconnaissance indicate that the APE at Alternative site 2 was cleared for crop land by at least the early 19th-century and later for residential/commercial development in the 20th-century. However, collaborating historic map research is inconclusive. USGS topographic maps from 1900 show no development within or adjacent to the parcel. The 1948 USGS topographic map depicts a two street cul-du-sac with a number of structures on both sides of the streets within the parcel. However, aerial photography from 1958 shows what appear to be parallel roads and cul-du-sac with two large structures but not multiple structures as shown on the USGS map. The two large structures and roads are visible in subsequent aerial photography from 1962 and 1963. The buildings are not visible in 1972 aerial photography but their former footprints are discernable. The parcel is depicted as vacant on the 1980 USGS topographic map. Today, the APE stands vacant although evidence of former development can be seen in the form of unwired utility poles, a fire hydrant in the middle of the field, and disturbances left from the former road (see Attachment B: Photographic Record).

An assessment for archaeological sensitivity of the Alternative 2 site was based on site characteristics (e.g., landform/terrain, soil characteristics, and proximity to water), the results of the reconnaissance survey, site file search, and background research. Also taken into consideration was the nature and level of observed disturbance or modification to the landscape in the project area due to historic and recent human development. Given the extent of 20th-century disturbances, there is no significant factor suggesting intact prehistoric archaeological material would be present. The Alternative 2 site was identified as containing areas with a high probability of containing historic archaeological sites. Given the uncertainties of the prior historic landuse, a high potential for historic archaeological sites related to the early to middle 20th-century is likely.

The Alternative Site 3 parcel is an approximately 46.7-acre parcel immediately west of the Niagara Falls ARS, on the east side of Tuscarora Road. The parcel is within a rural/industrial district and bordered by agricultural fields to the west, south, and north and the Niagara Falls ARS to the east. The north half of the site is active agricultural field. An abandoned automobile drag racing strip is located in the southern half of the property. Beyond the agricultural fields to the north several residential buildings are located along Lockport Road. The residential buildings are circa mid-20th century vernacular style houses. There are no S/NRHP-listed or eligible properties within or immediately adjacent to, the Alternative 3 site. The nearest S/NRHP is the Town of Niagara District School #2, which is located approximately 1,000 feet to the northeast across Lockport Road.

The parcel was studied as part of the New York State Shovel Ready Certification Program, which facilitates site development permitting processes. A Draft Generic Environmental Impact Statement was issued in 2011 by the Town of Niagara, the lead agency. As part of the Shovel Ready certification process, the OPRHP in a letter dated May 25, 2010, responded and opined that the "project" would have no effect on cultural resources in or eligible for inclusion in the S/NRHP.

CPB requests that the OPRHP review the enclosed project information and provide any comments on cultural resource concerns as a result of the proposed project activities. Enclosed is a USGS map of the project boundaries (Figure 1) and photographs of the existing parcels (Attachment A). Based on results of the reconnaissance surveys and background research

Ms. Ruth Pierpont Page 4

described herein, the lack of cultural resources identified in the 1998 survey of Site 1, and OPRHP determination that future development at Site 3 would have no effect on cultural resources, CBP has determined that there would be no adverse effect to cultural resources as a result of the proposed project activities at Site 1 or Site 3. Based on results of the reconnaissance survey and background research CBP determined there is the potential for culturally or historically significant resources being present at Site 2. Should Alternative Site 2 be selected for the new USBPS, CBP would conduct the necessary consultations and surveys to fulfill its requirements under Section 106 of the NHPA. We request your concurrence on our finding.

Thank you for your assistance in this matter. If you require additional information or have any questions, please contact Loretta Whitacre at (202) 344-1726 or by e-mail at Loretta. Whitacre@dhs.gov, or at the address below.

U.S. Customs and Border Protection Ms. Loretta L. Whitacre EPA West / B155 1301 Constitution Ave. NW Washington, DC 20004

Thank you for your assistance in this matter.

Sincerely,

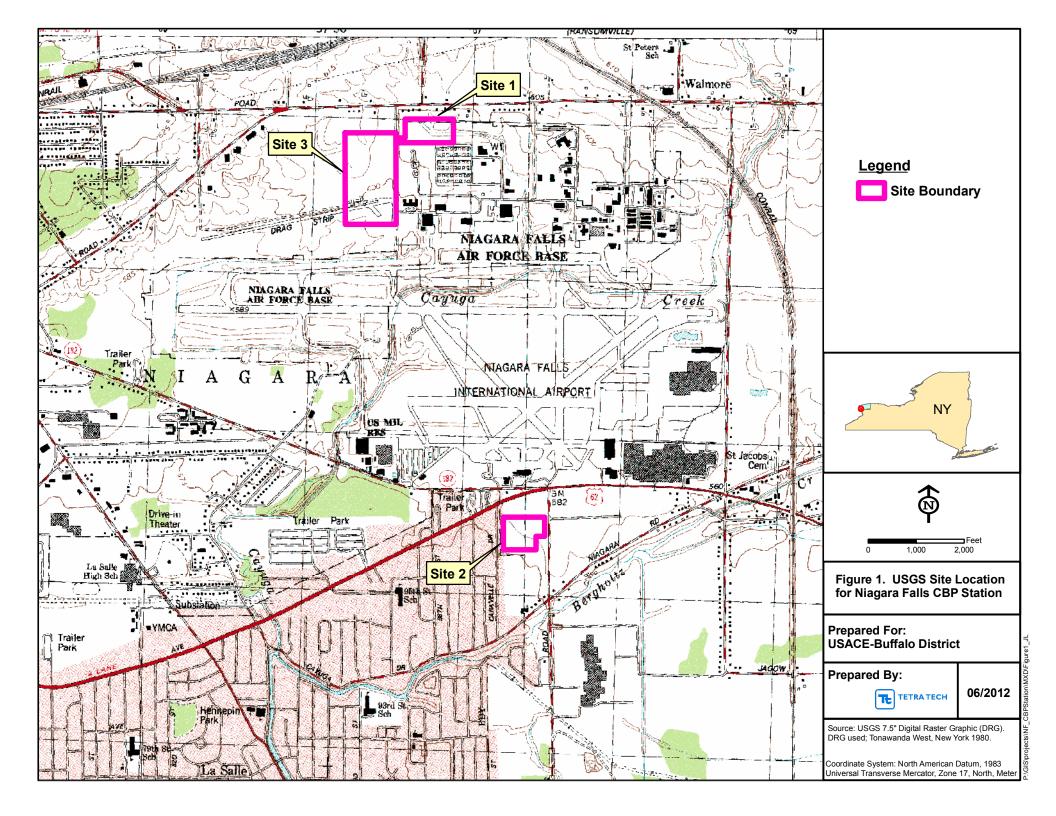
Christopher J. Colacicco

Director

Real Estate and Environmental Services Division Border Patrol Facilities and Tactical Infrastructure

Program Management Office

Enclosures



ATTACHMENT B PHOTOGRAPHIC RECORD

Company: United States Customs and Border Protection

Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 1
Direction: West

Comments:

Preferred Alternative – Site 1. View of Site 1 from the approximate center of field looking west.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 2
Direction: North

Comments:

Preferred Alternative – Site 1. View of Site 1 from the approximate center of field looking north.

United States Customs and Border Protection

Company: Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking Date: 05/08/2012

Photo No.: 3 Direction: East

Comments:

Preferred Alternative – Site 1. View of Site one 1 the approximate center of field looking east.



B. Locking Photographer: 05/08/2012 Date:

Photo No.: 4 Direction: South

Comments:

Preferred Alternative – Site 1. View of Site 1 from the approximate center of field looking south.

Company:United States Customs and Border ProtectionProject:Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 5
Direction: West

Comments:

Alternative Site 2 – View of Site 2 from the eastern boundary looking west across the parcel. Ground conditions here show little disturbance.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 6 **Direction:** West

Comments:

Alternative Site 2 – View of Site 2 from the approximate center of the field looking west toward the parcel boundary. Ground conditions here are disturbed and contain fill, gravel, and some impervious surfaces. Note un-wired utility pole in field.

PHOTOGRAPHIC RECORD

Company: United States Customs and Border Protection
Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 7
Direction: North

Comments:

Alternative Site 2 – View of Site 2 from the approximate center of the field looking north toward the parcel boundary. Car dealership is shown in background. Ground conditions here are disturbed and contain fill, gravel, and some impervious surfaces. Note fire hydrate in field.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 8
Direction: South

Comments:

Alternative Site 2 – View of Site 2 from the approximate center of the field looking sljgn toward the parcel boundary. Ground conditions here are disturbed and contain fill, gravel, and some impervious surfaces. Note overgrown road and un-wired utility poles in field.

PHOTOGRAPHIC RECORD

Company: United States Customs and Border Protection

Project: Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 9 **Direction:** North

Comments:

Alternative Site 2 – View of Site 2 from the approximate center of the field looking north toward the parcel boundary. Ground conditions here are disturbed and contain fill, gravel, and some impervious surfaces. Note un-wired utility pole in field. Niagara Falls airport control tower seen in background.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 10
Direction: West

Comments:

Alternative Site 3 – View of Site 3 from eastern boundary looking across the parcel. Active crop land occupies the north half of the parcel.

PHOTOGRAPHIC RECORD

Company:United States Customs and Border ProtectionProject:Border Patrol Station, Niagara, New York



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 11
Direction: West

Comments:

Alternative Site 3 – View of Site 3 from the eastern boundary looking across the parcel. Former drag strip shown. Southern half of parcel is occupied by the former racing facility. Ground conditions here are disturbed and contain fill, gravel, and impervious surfaces.



Photographer: B. Locking **Date:** 05/08/2012

Photo No.: 12

Direction: North

Comments:

Alternative Site 3 – View of Site 3 from the southeast corner. Niagara Falls ARS is shown on the left. Ground conditions here are disturbed and contain fill, gravel, and impervious surfaces.



New York State Office of Parks, Recreation and Historic Preservation Andrew M. Cuomo Governor

> Rose Harvey Commissioner

Division for Historic Preservation • Peebles Island, PO Box 189, Waterford, New York 12188-0189 518-237-8643

www.nysparks.com

August 14, 2012

Ms. Loretta L. Whitacre
US Customs and Border Protection
EPA West/B155
1301 Constitution Avenue NW
Washington, DC 20004

RE: US Customs and Border Protection (DHS)

New US Border Patrol Station Niagara Falls, Niagara County

12PR02835

Dear Ms. Jadrosich:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (SHPO) regarding the proposed construction of a border patrol facility in Niagara Falls. We have reviewed the submitted documentation in accordance with Section 106 of the National Historic Preservation Act of 1966 and the relevant implementing regulations.

Based on the information submitted, the SHPO concurs with the findings presented in Mr. Colacicco's letter dated July 2, 2012. Dr. Nancy Herter of our archaeology unit stated that she has no archaeological concerns for the three sites: Sites 1 and 3 were previously cleared by our office; Site 2 is disturbed. Additionally, we have no architectural or above ground concerns. Therefore, it is our opinion that the construction of a new facility at any of the sites described will have No Adverse Effect on historic and cultural resources in the Area of Potential Effect. Should you, during the construction phase of the project, come upon any previously unknown archaeological resources, please contact Dr. Herter at 518-237-8643, extension 3280.

Thank you for your thoughtful approach to the development of the sites. Please refer to the SHPO Project Review (PR) number in any future correspondence regarding your project.

Sincerely,

Elizabeth Martin

Historic Sites Restoration Coordinator

Uzzbeth Wart

Via email only

Appendix C USDA NRCS Farmland Conversion Impact Rating

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May 16, 2012

Ms. Cathy Crotty USDA NRCS State Office 441 South Salina Street, Suite 354 Syracuse, NY 13202-2450

Re: Farmland Conversion Impact Rating Request for US Customs Border Protection

Niagara Area of Responsibility Border Patrol Station, Niagara Falls, New York

Dear Ms. Crotty:

Please find enclosed three (3) copies of the U.S. Department of Agricultural Farmland Conversion Impact Rating Form (AD-1006) and associated site maps for the proposed *US Customs Border Patrol Station Niagara Falls, New York*. We request a prime farmland determination for the three sites that are being evaluated for development.

Site A is an 12.3 acre site located on the Niagara Falls Air Reserve Station and is the preferred alternative for development. Site B is 12 acres, Site C is 46.7 acre and both are privately owned. All proposed sites are located on Odessa silty clay loam, 0 to 2 percent slopes which is considered prime farmland if drained. Site 2 has 1.59 acres of a non-prime farmland soil type.

Please see the enclosed site maps for the site locations for proposed development of a 40,000 square foot border patrol station. The building footprint was calculated to directly affect prime farmland soils for the purposes of this evaluation. The chosen site will also likely include parking, covered storage, and a K-9 facility including a kennel and dog runs; however the exact footprint has not been determined at this time.

If you have any questions, please contact Heather Conn at (225) 383-1780.

Regards,

Heather Conn, PLA Landscape Architect | Environmental Scientist

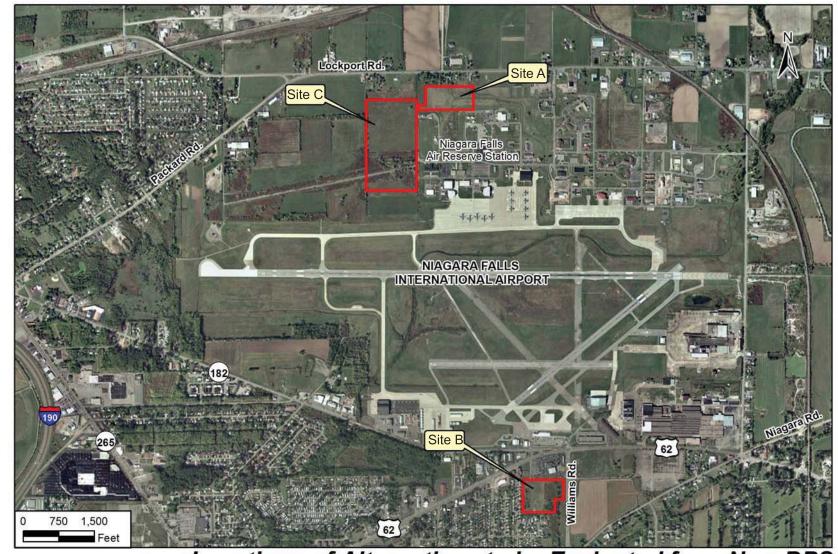
cc: Sarah Hamilton – USACE, Buffalo District

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

Date Of Land Evaluation Request S/16/12 Name Of Project US Customs Border Patrol Station Niagara Falls, N Federal Agency involved USACE, Buffalo District								
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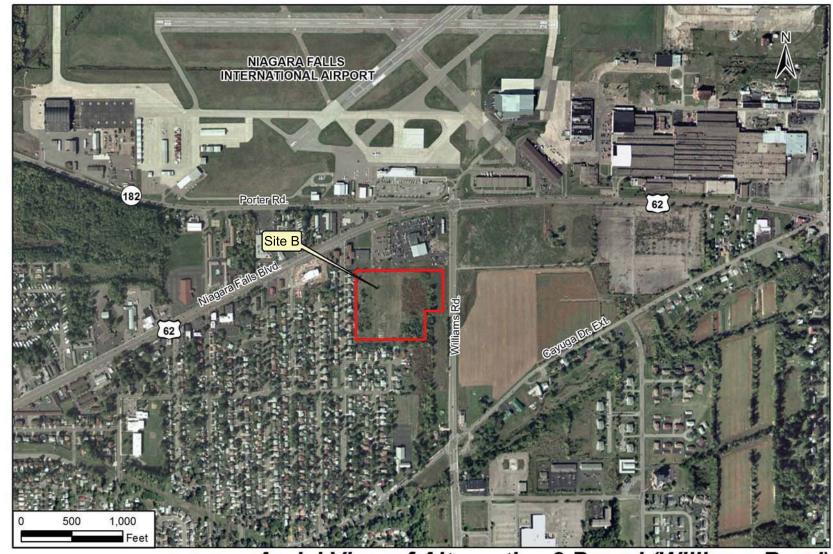
Reason For Selection:



Locations of Alternatives to be Evaluated for a New BPS



Aerial View of the Alternative 1 Parcel (Niagara Falls Air Reserve Station) and the Alternative 3A Parcel (Tuscarora Road West)



Aerial View of Alternative 2 Parcel (Williams Road)

United States Department of Agriculture



Natural Resources Conservation Service The Galleries of Syracuse 441 S. Salina Street, Suite 354 Syracuse, NY 13202-2450

Telephone: (315) 477-6506 FAX: (315) 477-6550

Email: kathryn.duncan@ny.usda.gov

June 19, 2012

Tetra Tech Heather Conn, PLA P.O. Box 2188 Baton Rouge, LA 70821

Re: US Customs Border Patrol Station Niagara Falls, NY NRCS FPPA review

Dear Ms. Conn.

This is a follow-up letter regarding our phone conversation on 6/18/2012. During our conversation you made me aware that this project will be used for national defense purposes. Due to this new information, the project and any alternative sites will be considered exempt from the Farmland Protection Policy Act based on section 1547(b) of the Act, 7 U.S.C. 4028(b) which states that acquisition or use of farmland by a Federal agency for national defense purposes is exempt from the Act.

The project information will be retained for future reference. If you have any questions about this determination please feel free to contact me.

Kathryn Duncan Cartographer

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Appendix D

Wetland Delineation Report Border Patrol Station, Buffalo Sector Niagara Area of Responsibility This page was intentionally left blank

Wetland Delineation Report

for the

U.S. Customs and Border Protection
Buffalo Sector
Niagara Area of Responsibility Border Patrol Station
Niagara County, New York

Prepared by:

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and
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Dated: 21 August 2013

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1.0 INTRODUCTION AND BACKGROUND

1.1 Executive Summary

The U.S. Customs and Border Protection (CBP) proposes to construct, operate, and maintain a new Border Patrol Station (BPS) in the Buffalo Sector, Niagara Area of Responsibility (AOR). The new BPS would provide the U.S. Border Patrol (USBP) with a larger, more modern facility that would alleviate constrained working conditions and accommodate more equipment.

The U.S. Army Corps of Engineers, Detroit District, Real Estate Division, conducted a survey of the designated area for the proposed Niagara AOR BPS to identify parcels that would meet the general criteria established by CBP (USACE Detroit District, 2011). From the survey results, three parcels were identified for further evaluation as potential parcels for the proposed new Niagara AOR BPS, all located in the Town of Niagara, Niagara County, New York.

The U.S. Army Corps of Engineers, Buffalo District, Regulatory Branch, applied methodology specified by the *Corps of Engineers Wetlands Delineation Manual* (USACE Environmental Laboratory, 1987) (1987 Manual) and U.S. Army Corps of Engineers *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0). (USACE Environmental Laboratory, 2012) (Regional Supplement) to perform a delineation of Federal jurisdictional wetlands and other waters within the three identified alternative parcels. A summary of findings is described below.

Three emergent wetlands and one perennial stream were identified on the 12.3-acre Alternative 1 parcel which is located southeast of the intersection of Lockport Road and Tuscarora Road.

Two emergent wetlands, two forested wetlands, and one scrub-shrub wetland were identified on the 12-acre Alternative 2 parcel which is located southwest of the intersection of Williams Road and Niagara Falls Boulevard.

One scrub-shrub wetland and four mixed scrub-shrub and emergent wetlands were identified on the 46.7-acre Alternative 3 parcel which is located southwest of the intersection of Lockport Road and Tuscarora Road.

1.2 Off-Site Resource Review

1.2.1 Alternative 1 Parcel Resource Review

General Parcel Description

The Alternative 1 parcel is located in the town of Niagara, Niagara County, New York, approximately two miles east of Interstate (I)-190, seven miles from the U.S. and Canada border crossing at I-190, and 6.6 miles from the U.S. and Canada border crossing at Niagara Falls State Park. The Alternative 1 parcel is rectangular in shape and encompasses 12.3 acres. The main entrance to the Niagara Falls International Airport is located three miles from the Alternative 1 parcel. The parcel is in the northwest corner of the Niagara Falls Air Reserve Station (ARS) property and has 100 linear feet (LF) of frontage on Tuscarora Road to the west.

The parcel is a flat, vacant, grassy lot that is zoned light industrial. Land adjacent to the parcel is agricultural to the west, residential to the north, and the parcel belongs to the Niagara Falls Air Reserve Station (ARS) which continues to the south and east. Niagara Falls International Airport is south of the ARS. The surrounding area is primarily rural residential with suburban residential neighborhoods approximately one mile west of the parcel.

Hydrology

The Alternative 1 parcel is generally flat and includes fallow fields, drainage depressions, and an unnamed tributary to Cayuga Creek. Two main drainage features are located in the north-central and south-central portions of the site. Surface water flow in the drainage features converges at the center of the parcel and continues to flow east in a stream channel with wetland fringe, continues east and south off-site flowing through the center of the Niagara Falls ARS, and eventually drains into Cayuga Creek (a Section 10 navigable water of the U.S.). Cayuga Creek flows south and west into the Niagara River (a Section 10 navigable water of the U.S.) approximately 5 miles upstream of the American and Horseshoe Falls. The unnamed tributary on the Alternative 1 parcel functions as the primary stormwater conveyance for the Niagara Falls ARS (Tetra Tech, Inc., 2012) (Figures 6 and 8, Appendix B).

Vegetation

The Alternative 1 parcel is composed primarily of an old field vegetation community consisting of grasses and other herbaceous vegetation which is maintained via mowing. Hydrophytic vegetation forms a wetland fringe along the stream channel and drainageways in the central portion of the parcel. Hydrophytic vegetation also occurs in depressions in the northwest portion of the parcel. An active stormwater basin was recently constructed along the south-central parcel boundary and planted with vegetation (Microsoft Corporation, 2013) (Figure 5, Appendix B).

Soils

The Alternative 1 parcel consists of Odessa silty clay loam soil, 0 to 2 percent slopes. Odessa silty clay loam is formed from reddish clayey and silty glaciolactustrine deposits, is not known to flood or pond, and has depth to a restrictive feature of more than 80 inches. The soils are somewhat poorly drained, and the depth to water table in the soils is about 6 to 18 inches (USDA/NRCS, 2011a). Odessa silty clay loam, 0 to 2 percent is not designated as a hydric soil; however, Lakemont is a component of this soil type that if found in a depression, could qualify as a hydric soil (USDA/NRCS, 2011b) (Figure 9, Appendix B).

Alternative 1 Parcel - Resource Review Summary

The U.S. Fish and Wildlife Service National Wetland Inventory (USFWS NWI) map does not depict any wetlands on or directly adjacent to the Alternative 1 parcel; however, this resource does depict a Palustrine emergent (PEM) wetland located less than 0.05 mile west of the parcel on the west side of Tuscarora Road, as well as a large PEM wetland complex approximately one-half mile south of the parcel (USFWS, 2011) (Figure 7, Appendix B).

There are no New York State Department of Environmental Conservation (NYSDEC) freshwater wetlands or streams mapped on or immediately adjacent to the Alternative 1 parcel (NYSDEC, 2012b) (Figure 11, Appendix B).

One stream is mapped as flowing south and then east through the Alternative 1 parcel according the U.S. Geological Survey National Hydrography Dataset (USGS NHD) (USGS, 2012) (Figure 8, Appendix B).

Part of the central and eastern portions of the Alternative 1 parcel are within a designated 100 Year Flood Zone as per FEMA mapping; the flood zone corresponds with the drainage depressions and wetland areas on the parcel (FEMA, 2012) (Figure 10, Appendix B).

The USGS Tonawanda West quadrangle does not identify any wetland or stream features on the Alternative 1 parcel (USGS, 2010) (Figure 6, Appendix B).

1.2.2 Alternative 2 Parcel Resource Review

General Parcel Description

The Alternative 2 parcel is located in the town of Niagara in Niagara County, New York, approximately three miles east of I-190, 7.5 miles from the U.S. and Canada border crossing at I-190, and 7 miles from the U.S. and Canada border crossing at Niagara Falls State Park. The main entrance to the Niagara Falls International Airport is located one-quarter mile from the Alternative 2 parcel. The parcel is situated south of the airport and has 400 LF of frontage on Williams Road to the east. The Alternative 2 parcel is roughly rectangular and measures 12 acres.

The Alternative 2 parcel is vacant, flat, sparsely covered with grasses, and is zoned general business (Niagara County, 2012; USACE Detroit District, 2011). Land adjacent to the parcel is agricultural to the east, residential to the west and south, and a commercial car dealership and automotive shop are located to the north of the parcel. The commercial area and the Alternative 2 parcel are owned by David Chevrolet Buick (Tetra Tech, Inc., 2012). Niagara International Falls Airport is less than 1,500 LF north of the site. The surrounding area is primarily rural to the east, and the city limits of Niagara Falls are one street south and west of the parcel.

Evidence of previous site development and disturbance includes a fire hydrant, utility poles, collapsed drain tile, evidence of grading and filling, and an old building foundation. The northwest corner of the site is currently undergoing filling and grading activities.

Hydrology

The Alternative 2 parcel is located approximately one-half mile north of Bergholtz Creek and approximately 1 mile south of Cayuga Creek (Microsoft Corporation, 2013; USGS, 2010; USGS, 2012). Hydrology on the Alternative 2 parcel was previously disturbed via drainage tile, culverts, and agricultural row cropping (furrows). Surface water on the parcel generally drains south through the site and continues south off-site. Stormwater appears to be piped under the residential development south of the Alternative 2 parcel (Microsoft Corporation, 2013). A culvert carries stormwater under Niagara Road and discharges into Bergholtz Creek. Bergholtz Creek is a direct tributary to Cayuga Creek, a Section 10 navigable water of the U.S. (Figures 12, 13, and 15, Appendix B).

Vegetation

The Alternative 2 parcel vegetation community is comprised of emergent, scrub-shrub, and forested vegetation. The western portion of the parcel and the area immediately adjacent to the eastern property line is composed primarily of herbaceous vegetation. Herbaceous vegetation on the parcel is maintained by mowing. A tract of scrub-shrub vegetation exists along the west-central and southern property lines. The east portion of the parcel is comprised primarily of forested vegetation (Microsoft Corporation, 2013) (Figure 12, Appendix B).

Soils

The Alternative 2 parcel primarily consists of Odessa silty clay loam soil, 0 to 2 percent slopes, and the south-central portion of the parcel consists of Canandaigua silty clay loam. Odessa silty clay loam, formed from reddish clayey and silty glaciolactustrine deposits, is not known to flood or pond, and has depth to a restrictive feature of more than 80 inches. Odessa silty clay loam is somewhat poorly drained, and the depth to water table in the soils is about 6 to 18 inches (USDA/NRCS 2011a, Figure 16, Appendix B). Odessa silty clay loam, 0 to 2 percent is not designated as a hydric soil, but Lakemont is a component of this soil type that if found in a depression, could qualify as a hydric soil (USDA/NRCS 2011b).

Canandaigua silty clay loam is formed from silty and clayey glaciolactustrine deposits, is not known to flood but frequently ponds, and has depth to a restrictive feature of more than 80 inches. The soil is very poorly drained, and the depth to water table in the soils is 0 inch. (USDA/NRCS 2011a, Figure 16, Appendix B). Canandaigua silty clay loam is designated as a hydric soil (USDA/NRCS 2011b).

Alternative 2 Parcel - Resource Review Summary

There are no USFWS NWI wetlands and no NYSDEC freshwater wetlands or streams identified on or adjacent to the Alternative 2 parcel (USFWS, 2011; NYSDEC, 2012b). The USFWS NWI map depicts a large Palustrine emergent wetland complex located approximately one-half mile north of the Alternative 2 parcel on the Niagara Falls ARS and the NYSDEC wetland mapper identifies a 43-acre New York State-regulated wetland is approximately one-half mile south of the Alternative 2 parcel (USFWS, 2012b; NYSDEC, 2012b) (Figures 14 and 18, Appendix B).

The USGS NHD does not identify any wetlands or streams on the Alternative 2 parcel (USGS, 2012) (Figure 15, Appendix B).

FEMA mapping does not identify the Alternative 2 parcel as being within a known flood zone (FEMA, 2012) (Figure 17, Appendix B).

The USGS Tonawanda West quadrangle does not identify any wetland or stream features on the Alternative 2 parcel (USGS, 2010) (Figure 13, Appendix B).

1.2.3 Alternative 3 Parcel Resource Review

General Parcel Description

The Alternative 3 parcel is located in the town of Niagara in Niagara County, New York, approximately two miles from I-190, 7 miles from the border crossing at I-190, and 6.6 miles from the border crossing at Niagara Falls State Park. The main entrance to the Niagara Falls International Airport is located three miles from the parcel. The Niagara Falls ARS and the Alternative 1 parcel are located east of the Alternative 3 parcel. The parcel has 2,600 LF of frontage on Tuscarora Road to the east. Lockport Road is located north of the parcel, with some residences and open land along Lockport Road separating the parcel from the road. The parcel is rectangular and measures 46.7 acres.

The parcel is a vacant, flat, grass and shrub covered property that is used as farmland but zoned as heavy industrial (Niagara County, 2012a). The adjacent land is agricultural to the north, south, and west, the Niagara Falls ARS is east of the site. The surrounding area is primarily rural residential with suburban residential neighborhoods approximately one mile west of the parcel. The Niagara Falls International Airport is south of the Niagara Falls ARS.

In 2009, URS Corporation (URS) delineated an approximately 200-acre area that included the 46.7-acre Alternative 3 parcel. URS identified 11 wetlands in the 200-acre area totaling 3.81 acres with the largest of these wetlands (1.49 acres) being adjacent to

the lower southwest portion of the Alternative 3 parcel boundary (URS, 2011). This wetland appears to have been created from drainage disruption on the north side of an abandoned automobile drag strip located in the south portion of the parcel. Three of the 11 URS-identified wetlands are located within the boundaries of the Alternative 3 parcel and occupy approximately one-quarter of an acre within the boundaries of the Alternative 3 parcel (URS, 2011).

An abandoned automobile drag strip and numerous associated impermeable surfaces occur in the south portion of the parcel. Several abandoned structures and foundations are visible in aerial imagery on the southern half of the parcel (Microsoft Corporation, 2013) (Figure 19, Appendix B).

Hydrology

The Alternative 3 parcel is generally flat and includes wetlands which have evidently formed in old agricultural furrows and depressional areas. Surface water generally drains east and south across the parcel. Hydrology on the parcel has been previously modified through the installation of culverts in drainageways, farming activities, an abandoned automobile drag strip, and associated impermeable surfaces on the parcel. There is a roadside drainage ditch parallel to the east parcel boundary. Surface water drains south in this ditch, flows south through several culverts, continues south off the parcel and discharges into an unnamed tributary to Cayuga Creek (a Section 10 navigable water of the U.S.). Cayuga Creek discharges into the Niagara River (a Section 10 navigable water of the U.S.) approximately 5 miles upstream of the American and Horseshoe Falls (Microsoft Corporation, 2013; USGS, 2010; USGS, 2012) (Figures 19, 20, and 22, Appendix B).

Vegetation

The north half of the Alternative 3 parcel is an active agricultural field bound by manmade drainages. The southern portion of the parcel is covered with secondary successional growth, consisting of dense shrubs and some trees. In the southern portion of the parcel there are four east-west spanning remnant farm furrows (Microsoft Corporation, 2013) (Figure 19, Appendix B).

Soils

The Alternative 3 parcel consists of Odessa silty clay loam soil, 0 to 2 percent slopes. Odessa silty clay loam is formed from reddish clayey and silty glaciolactustrine deposits, is not known to flood or pond, and has depth to a restrictive feature of more than 80 inches. The soils are somewhat poorly drained, and the depth to water table in the soils is about 6 to 18 inches (USDA/NRCS, 2011a) (Figure 23, Appendix B). Odessa silty clay loam, 0 to 2 percent is not designated as a hydric soil, but Lakemont is a component of this soil type that if found in a depression, could qualify as a hydric soil (USDA/NRCS, 2011b). The soil is designated as prime farmland if drained (USDA/NRCS, 2011a).

Alternative 3 Parcel - Resource Review Summary

There are no USFWS NWI wetlands and no NYSDEC freshwater wetlands or streams identified on the Alternative 3 parcel (USFWS, 2011; NYSDEC 2012b) (Figures 21 and 25, Appendix B). However, there is a USFWS NWI mapped wetland identified adjacent to the northeastern corner of the Alternative 3 parcel (USFWS, 2011) (Figure 21, Appendix B).

The USGS NHD does not identify any wetlands or streams on the Alternative 3 parcel (USGS, 2012) (Figure 22, Appendix B).

FEMA mapping does not identify the Alternative 3 parcel as being within a known flood zone (FEMA, 2012), (Figure 24, Appendix B).

The USGS Tonawanda West quadrangle does not identify any wetland or stream features on the Alternative 3 parcel (USGS, 2010) (Figure 20, Appendix B).

2.0 DELINEATION METHODOLOGY

2.0 Delineation Methodology

Wetland delineation field activities were conducted by U.S. Army Corps of Engineers, Buffalo District biologists on 23 April 2013, 24 April 2013, 25 April 2013, 7 May 2013, 17 May 2013, and 5 June 2013. The delineation was conducted in accordance with the U.S. Army Corps of Engineers (USACE) *Wetlands Delineation Manual* (USACE Environmental Laboratory, 1987) (1987 Manual) and the U.S. Army Corps of Engineers *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Northcentral and Northeast Region* (Version 2.0) (USACE Environmental Laboratory, 2012) (Regional Supplement).

Previously, wetland delineations were conducted for the Alternative 1 and Alternative 3 parcels and each of these parcels have currently valid USACE jurisdictional determinations. As such, existing delineation information and updated delineation information were compiled. The parcels were reinvestigated for any changes to on-site waters, additional data points were taken, and any changes to wetlands and other on-site features were mapped accordingly. Original and updated data are included in this report. Parcel 2 was not previously delineated; thus, new data were collected for this parcel.

The USACE and U.S. Environmental Protection Agency (USEPA) jointly define wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions [33 CFR 328.3(b), 40 CFR 230.3(t)]. Criteria used to identify a wetland, as defined therein, consist of the following:

- The prevalent vegetation is hydrophytic
- The soils observed have been classified as hydric, and/or anaerobic (reducing) conditions have developed in the soils
- The area is either permanently or periodically inundated, or the soil is permanently or periodically saturated to the surface during the growing season.

To make a positive wetland determination, a minimum of one wetland indicator from each criterion (vegetation, soil, and hydrology) must be identified. The Routine Determination Method outlined in the 1987 Manual was used in conjunction with procedures outlined in the Regional Supplement to identify and delineate wetlands within the parcel boundaries. Routine determinations involve simple, rapidly applied methods that result in sufficient qualitative data for identifying wetland and non-wetland areas. The Routine Determination Method consists of a combination of off-site data review and on-site inspection.

Off-site activities included an evaluation of available information regarding environmental conditions within the parcel boundaries. NRCS soil survey information (USDA/NRCS, 2011a), USFWS National Wetland Inventory mapping (USFWS, 2011), FEMA floodplain mapping (FEMA, 2012), USGS topographic mapping (USGS, 2010), aerial photographs (Microsoft Corporation, 2013) USGS National Hydrography Dataset mapping (USGS, 2012), and NYSDEC wetland and stream mapping (NYSDEC, 2012b)

were reviewed for each of the three parcels and are transposed into maps specific to each parcel, which are included in this report as Figures 5-25 (Appendix B). On-site activities consisted of collecting the field data required to identify and delineate wetland boundaries. Field data were gathered at sample plots (referred to herein as sample points) chosen in potential wetland areas, as well as in corresponding adjacent upland areas. Appended to this report are the Wetland Data Forms (Appendix E) generated during this effort and a photographic log (Appendix D) depicting the parcel characteristics observed. While information obtained from off-site sources such as the USFWS National Wetland Inventory Map (USFWS, 2011) and the USDA/NRCS Soil Map (USDA/NRCS, 2011a) were consulted during this wetland delineation, final wetland determinations were made based on information obtained in the field. The following describes the approach used to complete the wetland identification and delineation effort:

In regard to vegetation, the field investigation sought to determine the extent to which hydrophytic vegetation dominated any given area. A plant community dominated by hydrophytic vegetation is one of the three wetland parameters. Hydrophytic vegetation refers to plant species that thrive in wet soil conditions. Hydrophytic species are identified in the 2012 draft final USACE National Wetland Plant List (NWPL) (Lichvar and Kartesz, 2012). The NWPL identifies a plant's "indicator status" category, which is a ranking of the likelihood that a particular plant species will occur in a wetland environment. These categories include:

- Obligate wetland plants (OBL) almost always occur in wetlands (wetland probability estimated at 99 percent or greater)
- Facultative wetland plants (FACW) usually occur in wetlands (wetland probability estimated at 67-99 percent)
- Facultative plants (FAC) are equally likely to occur in upland (non-wetland) areas (wetland probability estimated at 34-66 percent)
- Facultative upland plants (FACU) typically occur in upland (non-wetland) areas (wetland probability estimated at 1-33 percent)
- Obligate upland plants (UPL) almost always occur in upland areas (wetland probability estimated at less than 1 percent)

During the field wetland delineation, plant community types were visually recognized and their dominant component species were identified. Wetland indicator status was obtained, if available, for each plant species identified and recorded on a Wetland Determination Data Form (Appendix E). If greater than 50 percent of the dominant species in the plant community were observed to have an indicator status of facultative (FAC) or wetter (FACW or OBL), then a hydrophytic vegetative community was considered to be present.

Prospective wetland areas were examined for the presence of hydrology in the areas occupied by a hydrophytic plant community. If one or more primary wetland hydrologic indicator and/or if two or more secondary wetland hydrologic indicators were observed, then the area was considered to contain wetland hydrology.

Samples of the surface soil substrate in the prospective wetland areas were examined at each sample point location. The characteristics of the soil were compared to hydric soil indicators as prescribed by the 1987 Manual and Regional Supplement. If the soils were observed to have positive hydric soil indicators as per the NRCS Field Indicators of Hydric Soils in the United States, Version 7 (NRCS, 2010), then hydric soil was considered to be present.

If each of the above characteristics (hydrophytic vegetation, wetland hydrology, and hydric soils) were found to be present in a prospective wetland area, the area was considered wetland. If any of the above characteristics were found to be absent in a prospective wetland area, then the area was not considered a wetland. The point between the area where all three of these criteria were present and the area where at least one of these criteria was absent was identified as the wetland border.

3.0 DELINEATION FINDINGS

3.0 Delineation Findings

3.1 Alternative 1 Parcel – Field Investigation

Three (3) emergent wetlands and one (1) perennial stream were observed on the parcel. USACE biologists examined five sample points on the parcel, which were compiled with the two sample points previously examined by USFWS (USFWS, 2010) for a total of seven sample points on the parcel. Four of the seven sample points were found to possess upland characteristics, while the remaining three sample points met the definition of a wetland. The wetland and stream locations as well as all sample point locations are depicted on the Alternative 1 Parcel Wetland Delineation Map (Figures 26 and 27, Appendix C).

3.1.1 Hydrology

No indicators of wetland hydrology were observed at the upland sample points. Primary wetland hydrology indicators (e.g. saturation, oxidized rhizospheres on living roots, etc.) and secondary wetland hydrology indicators (e.g. drainage patterns, geomorphic position, etc.) were observed at the wetland sample points. Hydrology on-site appeared to have been previously modified as the perennial stream on-site was observed to be culverted at multiple locations and channelized. Additionally, the old field was likely previously tiled to promote agricultural drainage. Further details of the hydrology characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.1.2 Vegetation Communities

The upland areas of the parcel are composed primarily of turf grasses including *Poa pratensis* (Kentucky bluegrass) and *Agrostis gigantea* (redtop) as well as broadleaf species including *Taraxicum officinale* (common dandelion), *Solidago canadensis* (Canada goldenrod), and *Fragaria virginiana* (Virginia strawberry). The wetland areas are composed primarily of emergent species and grasses including *Typha* spp. (cattail), *Juncus effusus* (soft rush), *Phalaris arundinacea* (reed canary grass), and *Agrostis stolonifera* (creeping bentgrass). Mowed woody species including *Cornus racemosa* (gray dogwood) and *Fraxinus pennsylvanica* (green ash) were also observed on-site. The parcel was observed to have been planted with turf grasses and mowing is on-going at the site, particularly in the upland areas. Further vegetation characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.1.3 Soils

In general, soil characteristics observed were consistent with characteristics of the NRCS mapped soil type (Odessa silty clay (0 to 2 percent slopes)) (USDA/NRCS, 2011a). At upland sample point 1, soils displaying characteristic upland field indicators including high-chroma (bright) matrix colors and dry conditions were observed. However, at the remaining upland sample points, soils displayed characteristics consistent with field indicators of hydric soils and met the definition of Hydric soil indicator 'Redox Dark

Surface' (F6) or 'Depleted Matrix' (F3). In the wetland areas of the parcel, all sample points displayed characteristics of hydric soils including low chroma colors and redox features, meeting the definition of Hydric Soil Indicator 'Depleted Matrix' (F3) at each wetland sample point. Further soil characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.1.4 Aquatic Resources Delineated

Wetland 1 (0.015 acre (ac.)) and Wetland 2 (0.038 ac.) are Palustrine Emergent wetlands located in the northwest portion of the parcel. Wetlands 1 and 2 were observed to be located in shallow depressions. No connection was observed between Wetlands 1 and 2 and a Water of the U.S. (WOUS); therefore these wetlands appeared to be isolated. Wetlands 1 and 2 are low to medium quality wetlands possessing low plant species diversity and moderate levels of wetland functions and services including potential wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage.

Wetland 3 (0.415 ac.) is a Palustrine Emergent linear wetland located in the central portion of the parcel. A portion of Wetland 3 forms a riparian fringe on each side of Stream 1. During the site visits most of Wetland 3 was inundated and surface water was observed flowing through Wetland 3 and Stream 1. There is a culvert near the north boundary of the parcel, which appears to discharge into the northwest finger of Wetland 3. This portion of Wetland 3 has silted in, does not have a defined channel, and is functioning as a linear wetland primarily composed of cattails (Typha spp.), sedges (Carex spp. and Schoenoplectus fluviatilis), and soft rush (Juncus effusus). There is also a water control structure located near the south boundary of the parcel adjacent to the south portion of Wetland 3. Surface water from Wetland 3 drains east into Stream 1, which flows east and south and continues south off-site. Wetland 3 is a low to medium quality wetland possessing moderate levels of wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage. Wetland 3 directly abuts Stream 1, a relatively permanent water, which has a surface water connection to Cayuga Creek, a Traditionally Navigable Waterway making Wetland 2 a federally jurisdictional WOUS.

Stream 1 (705.59 linear feet (LF), 7 feet wide) is a perennial stream which begins north of the subject parcel, flows south and east through Wetland 3, discharges into a culvert located at the east parcel boundary, and continues to flow south and east off-site. The depth of Stream 1 was observed during the site visits to vary between six inches and two feet deep and was observed to be flowing at the time of the site visits. Stream 1 is a low to medium quality stream, which provides functions and services including local stormwater storage, sediment detainment, and wildlife habitat for common organisms including birds, aquatic macro-invertebrates, and other insects, fish, and frogs. Stream 1 flows off-site and eventually outlets into Cayuga Creek a Section 10 navigable water of the U.S. Stream 1 is a federally regulated relatively permanent water of the U.S.

Wetland Identifier	Size (acres)	Cowardin Class (Palustrine)	Jurisdictional Status
Wetland 1	0.015	Emergent	Isolated
Wetland 2	0.038	Emergent	Isolated
Wetland 3	0.415	Emergent	Jurisdictional

Table 1. Summary of Alternative 1 Parcel on-site wetlands.

Stream Identifier	Length (linear feet)	Flow Regime	Jurisdictional Status		
Stream 1	705.59	Perennial	Jurisdictional		

Table 2. Summary of Alternative 1 Parcel on-site streams.

3.2 Alternative 2 Parcel – Field Investigation

Three (3) emergent wetlands, two (2) forested wetlands, and one (1) scrub-shrub wetland were observed on the Alternative 2 parcel. USACE biologists examined ten (10) sample points on the parcel. Five of the ten sample points were found to possess upland characteristics, while the remaining five sample points met the definition of a wetland. The wetland locations as well as all sample point locations are depicted on the Alternative 2 Parcel Wetland Delineation Map (Figures 28 and 29, Appendix C).

3.2.1 Hydrology

No indicators of wetland hydrology were observed at the upland sample points with the exception of sample point 2. Sample point 2 exhibited soil cracking which is likely due to a sparsely vegetated surface and recent precipitation followed by hot, dry, sunny weather. Primary wetland hydrology indicators (e.g. saturation, oxidized rhizospheres on living roots, etc.) and secondary wetland hydrology indicators (e.g. drainage patterns, geomorphic position, etc.) were observed at all wetland sample points. Hydrology onsite appeared to have been previously modified as indicated by the presence of collapsed drain tile and evident on-site filling and grading activities. Further details of the hydrology characteristics observed at the sample points are noted on the Wetland Determination Data Forms, which can be found in Appendix E.

3.2.2 Vegetation Communities

The upland areas of the parcel are composed primarily of turf grasses including *Lolium perenne* (perennial rye grass) and *Agrostis capillaris* (common bent grass) as well as broadleaf species including *Dipsacus sylvestris* (common teasel) and *Ranunculus ficaria* (lesser celandine). The tree stratum included *Acer rubrum* (red maple) and the shrub stratum included *Cornus foemina* (stiff dogwood), *Cornus alba* (red osier dogwood), and *Lonicera tatarica* (Tatarian honeysuckle). The parcel was observed to have been planted with turf grasses and mowing is on-going at the site, particularly in the upland and emergent wetland areas.

The emergent wetland areas of the parcel were primarily comprised of *Typha latifolia* (broadleaf cattail), *Phragmites australis* (common reed), *Agrostis capillaris* (common bent grass), *Lolium perenne* (perennial rye grass), *Juncus tenuis* (poverty rush), *Acer rubrum* (red maple), *Cornus alba* (red osier dogwood), *Ulmus americana* (American elm), and *Fraxinus pennsylvanica* (green ash). The scrub-shrub wetland areas consisted primarily of *Acer Rubrum* (red maple), *Ulmus americana* (American elm), *Cornus foemina* (stiff dogwood), and *Euthamia graminifolia* (flat-top goldenrod). Forested wetland areas consisted primarily of an over-story of *Populus tremuloides* (quaking aspen), *Ulmus americana* (American elm), *Quercus palustris* (pin oak) and an understory of *Agrostis capillaris* (common bent grass), *Phalaris arundinacea* (reed canary grass), *Glyceria striata* (fowl manna grass), and *Rumex crispus* (curly dock). Further vegetation characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.2.3 Soils

Fill material and site disturbance was evident at all sample points. Gravel, cobble, asphalt, crushed concrete, and the presence of graded or plow layers were found throughout the parcel. The overall soil characteristics observed were consistent with characteristics of the NRCS mapped soil types (Odessa silty clay (0 to 2 percent slopes and Canandaigua silt clay loam) (USDA/ NRCS, 2011a) despite the evidence of disturbance and presence of dissimilar fill material.

At upland sample points 2 and 9, soils displaying characteristic upland field indicators including higher-chroma (bright) matrix colors lacking redoximorphic features and dry conditions were observed. However, at the remaining upland sample points, soils displayed characteristics consistent with field indicators of hydric soils and met the definition of Hydric soil indicators 'Redox Dark Surface' (F6), 'Depleted Matrix' (F3), and/or 'Depleted Below Dark Surface' (A11). In the wetland areas of the parcel, all sample points displayed characteristics of hydric soils including low chroma colors and redoximorphic features, meeting the definition of Hydric Soil Indicators 'Depleted Matrix' (F3) and/or 'Redox Dark Surface' (F6) at the wetland sample points. Further soil characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.2.4 Aquatic Resources Delineated

Wetland 1 (0.018 acre) is a Palustrine Emergent wetland located in the southwest portion of the parcel. Wetland 1 lies within a shallow depression on the landscape at the base of a man-made gravel parking area. Wetland 1 is highly disturbed and has evidence of grading and filling activities. No connection was observed between Wetland 1 and a WOUS; therefore this wetland appeared to be isolated. Wetland 1 appears to receive hydrology from precipitation and stormwater runoff from the adjacent gravel parking area. The soil profile was consistent with the 'Depleted Matrix' (F3) indicator. Wetlands 1 is a low quality wetland possessing low plant species diversity and low levels of wetland functions and services including potential wildlife habitat, nutrient and pollutant

attenuation and processing, and local floodwater storage. A nesting mallard duck (*Anas platyrhynchos*) was observed in Wetland 1.

Wetland 2 (0.143 acre) is a Palustrine Forested wetland located in the northeast portion of the parcel. Wetland 2 lies within a shallow depression on the landscape. The area directly surrounding Wetland 2 has been modified by grading and mowing activities. Wetland 2 historically was connected to the Wetland 4 and Wetland 5 complex via a culvert which has since silted in and is partially collapsed. While the culvert is in disrepair, it still serves to hydrologically connect Wetland 2 to Wetlands 4 and 5. During the site visit most of Wetland 2 was inundated. Wetland 2 appears to receive its hydrology from precipitation and runoff from the adjacent uplands and impervious surfaces. The soil profile was consistent with the 'Redox Dark Surface' (F6) indicator. Wetland 2 is a low to moderate quality wetland providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage. Surface water in Wetland 2 drains south through a dilapidated culvert into the Wetland 4 and Wetland 5 complex, is conveyed through the Wetland 4 and 5 complex which drains south through the parcel, continues south off-site, is culverted under Niagara Road, and drains into Bergholtz Creek. During the 23 April 2013 site visit stormwater was observed discharging from the culvert into Bergholtz Creek. Bergholtz Creek is a direct tributary to Cayuga Creek, a Section 10 navigable water of the U.S. As such, Wetland 2 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 2 a federally jurisdictional WOUS.

Wetland 3 (0.040 acre) is a Palustrine Scrub-shrub wetland located in the southwest portion of the parcel. Wetland 3 lies within a shallow depression on the landscape. The area directly surrounding Wetland 3 has been modified by grading and mowing activities. Small fill piles were observed within Wetland 3. During the site visit portions of Wetland 3 were observed to be inundated. Wetland 3 appears to receive hydrology from precipitation and runoff from adjacent uplands, the housing development to the west, and impervious surfaces. The soil profile was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 3 is a low to moderate quality wetland providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage. The boundary of Wetland 3 was walked and no outlet of water was observed. Wetland 3 directly abuts a linear drainageway (discussed below); however, the drainageway does not appear to possess a connection to a WOUS; therefore, the drainageway and Wetland 3 appear to be isolated.

Wetland 4 (2.35 acres) is a Palustrine Forested wetland located within a depression on the landscape in the northeast corner of the parcel. Wetland 4 extends north from the southeast corner of the parcel. During the site visit most of Wetland 4 was observed to be inundated. The boundaries of Wetland 4 appeared to be disturbed, likely as a result of previous site grading activities. Wetland 4 is a moderate quality wetland providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage. Wetland 4 appears to receive hydrology from precipitation and runoff from adjacent uplands and impervious surfaces. The soil profile was consistent with the 'Redox Dark Surface' (F6) hydric soil indicator.

Wetland 4 and Wetland 5 are part of a wetland complex that has been previously disturbed. Wetland 5 appears to be a graded, filled, and cleared extension of Wetland 4.

Wetland 5 (0.333 acre) is a highly disturbed Palustrine Emergent wetland. Wetland 5 is a continuous mosaic of wetland and upland with wetland comprising approximately 40% of the cumulative acreage of the mosaic area. The Wetland 5 mosaic is presumably a result of historic filling and grading of the parcel which created alternating high and low spots throughout the wetland. Wetland 5 is evidently mowed on a regular basis and has been seeded with turf grasses; however, the native wetland seed bank has emerged and dominates the vegetative community. Wetland 5 appears to receive hydrology from precipitation and stormwater runoff from adjacent impervious surfaces. The soil profile was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 5 is a low to moderate quality wetland possessing wetland functions and services including potential wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage.

The Wetland 4 and Wetland 5 complex drains south through the parcel, continues south off-site, is culverted under Niagara Road, and drains into Bergholtz Creek. Bergholtz Creek is a direct tributary to Cayuga Creek, a Section 10 navigable water of the U.S. As such, Wetland 4 and Wetland 5 are wetlands adjacent to a Traditionally Navigable Waterway making Wetlands 4 and 5 federally jurisdictional WOUS.

During the field investigation the Corps observed an approximately 365.06 LF drainageway located in the southwest portion of the parcel abutting the east side of Wetland 3. An old silted in culvert was observed at the north end of the drainageway. The drainageway did not exhibit defined bed, banks, or presence of stream substrate. At the time of the site visit the drainageway was dry and did not appear to possess a connection to a WOUS; therefore, the drainageway appeared be isolated.

Wetland Identifier	Size (acres)	Cowardin Class (Palustrine)	Jurisdictional Status
Wetland 1	0.018	Emergent	Isolated
Wetland 2	0.143	Forested	Jurisdictional
Wetland 3	0.040	Scrub-shrub	Isolated
Wetland 4	2.350	Forested	Jurisdictional
Wetland 5	0.333	Emergent	Jurisdictional

Table 3. Summary of Alternative 2 Parcel on-site wetlands.

3.3 Alternative 3 Parcel – Field Investigation

One (1) scrub-shrub wetland and four (4) scrub-shrub/emergent mixed wetlands were observed on the Alternative 3 parcel. USACE biologists examined twelve (12) sample points on the parcel. Six of the twelve sample points were found to possess upland

characteristics, while the remaining six sample points met the definition of a wetland. The wetland locations as well as all sample point locations are depicted on the Alternative 3 Parcel Wetland Delineation Map (Figures 30 and 31, Appendix C).

3.3.1 Hydrology

No indicators of wetland hydrology were observed at the upland sample points with the exception of sample point 5. Sample point 5 exhibited soil cracking which is likely due to a very sparsely vegetated surface and recent precipitation followed by hot, dry, sunny weather; soil cracking is typical in agricultural fields. Primary wetland hydrology indicators (e.g. saturation, oxidized rhizospheres on living roots, etc.) and secondary wetland hydrology indicators (e.g. drainage patterns, geomorphic position, etc.) were observed at all wetland sample points. Hydrology on-site appeared to have been previously modified as indicated by the presence of culverts, manmade drainage features, and evidence of agricultural plowing; the parcel likely contains subterranean agricultural drain tile. Further details of the hydrology characteristics observed at the sample points are noted on the Wetland Determination Data Forms, which can be found in Appendix E.

3.3.2 Vegetation Communities

The Alternative 3 parcel vegetative community is variable. The northern half and the southernmost portion of the parcel is actively farmed; however, at the time of the 7 May 2013 site visit the land had not yet been planted for the season and was therefore sparsely vegetated. Remnants of prior corn crop and minimal volunteer species were observed scattered throughout the agricultural fields on-site. Hydrophytic vegetation was observed in portions of the manmade ditch located along the east parcel boundary, within the remnant furrows/drainageways in the south-central portion of the parcel, and in depressions in the southeast portion of the parcel. Much of the southern half of the property as well as the manmade ditches along the northern and western parcel boundaries consist of scrub-shrub communities dominated by *Salix bebbiana* (Bebb's willow), *Cornus foemina* (stiff dogwood), *Cornus racemosa* (gray dogwood), *Cornus amomum* (silky dogwood), *Rhamnus cathartica* (common buckthorn), and *Crataegus* spp. (Hawthorne). Emergent species such as *Lythrum salicaria* (Purple loosestrife), *Typha latifolia* (broadleaf cattail), *Phragmites australis* (common reed), and *Solidago canadensis* (Canada goldenrod) persist in the upland, wetland, and agricultural areas.

3.3.3 Soils

The overall soil characteristics observed were consistent with characteristics of the NRCS mapped soil type Odessa silty clay 0 to 2 percent slopes (USDA/NRCS 2011a). The northern half of the parcel was observed to have been previously disturbed as a result of agricultural activities including plowing and construction of drainage ditches.

With the exception of sample point 5, all upland soil sample points displayed characteristic upland field indicators including higher-chroma (bright) matrix colors lacking redoximorphic features and dry conditions were observed. However, at sample point 3, soils displayed characteristics consistent with the field indicator of hydric soil, 'Depleted Matrix' (F3).

In the wetland areas of the parcel, all sample points displayed characteristics of hydric soils including low chroma colors and redoximorphic features, consistent with the definition of Hydric Soil Indicator 'Depleted Matrix' (F3). Further soil characteristics observed at the sample points are provided on the Wetland Determination Data Forms, which can be found in Appendix E.

3.3.4 Aquatic Resources Delineated

Wetland 1 (0.024 acre) is a linear Palustrine Scrub-shrub wetland located in a depressional manmade drainage feature along the western edge of the parcel in the northwest corner of the parcel. The area surrounding Wetland 1 has been previously modified by agricultural activities. During the site visit, portions of Wetland 1 were observed to be inundated. Wetland 1 appears to receive hydrology from precipitation and runoff from the adjacent uplands; Wetland 1 developed in a manmade drainage feature. The soil profile observed in Wetland 1 was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 1 is of low to moderate quality providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage and drainage. Surface water in Wetland 1 drains west to a manmade drainage feature along the western edge of the parcel, is conveyed through Wetland 3 on-site which is culverted (off-site, draining south) under an abandoned automobile drag strip, and drains into an off-site tributary. The off-site tributary drains in a southerly direction into an off-site east-west ditch which outlets into Cayuga Creek, a Section 10 navigable water of the U.S., which flows to the Niagara River, a Section 10 navigable water of the U.S. As such, Wetland 1 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 1 a federally jurisdictional WOUS.

Wetland 2 (0.005 acre) is a Palustrine Scrub-shrub and Emergent mixed wetland located in a depressional manmade drainage feature in the northwest portion of the parcel. Wetland 2 extends west off-site. The area surrounding Wetland 2 has been previously modified by agricultural activities. During the site visit, portions of Wetland 2 were observed to be inundated. The presence of algae and the lack of flow in Wetland 2 suggests that much of Wetland 2 is ponded for long periods of time. The soil profile in Wetland 2 was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 2 is a low to moderate quality wetland providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage and drainage. Surface water in Wetland 2 drains south to Wetland 3 and continues south through Wetland 3 on-site. Surface water in Wetland 3 continues to drain south through a culvert under an abandoned automobile drag strip, and drains into an off-site tributary. The off-site tributary drains in a southerly direction into an off-site east-west ditch which outlets into Cayuga Creek, A Section 10 navigable water of the U.S., which eventually flows into the Niagara River, a Section 10 navigable water of the U.S. As such, Wetland 2 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 2 a federally jurisdictional WOUS.

Wetland 3 (0.086 acre) is a Palustrine Scrub-shrub and emergent wetland located in a depressional area in the southwest portion of the parcel and along the western parcel

boundary. Wetland 3 extends off-site to the west. The area surrounding Wetland 3 has been consistently modified by agricultural activities. The wetland appears to have been created when the drainage culvert beneath the drag strip (off-site) became plugged. The soil profile was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 3 appears to receive hydrology from precipitation, runoff from the adjacent uplands, and drainage from the manmade drainageways running along the northern and western property lines, including Wetlands 1 and 2. Wetland 3 is of low to moderate quality providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage and drainage. As discussed above, Wetland 3 drains south off-site through a culvert under an abandoned automobile drag strip, and continues into an off-site tributary. The off-site tributary drains in a southerly direction into an off-site east-west ditch which outlets into Cayuga Creek, a Section 10 navigable water of the U.S., which eventually flows into the Niagara River, a Section 10 navigable water of the U.S. As such, Wetland 3 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 3 a federally jurisdictional WOUS.

Wetland 4 (0.222 acre) is an L-shaped Palustrine Scrub-shrub and emergent wetland located in a depressional area in the southeast portion of the parcel. The area surrounding Wetland 4 has been previously modified by agricultural activities and by the abandoned automobile drag strip. The soil profile was consistent with the 'Depleted Matrix' (F3) indicator. Wetland 4 appears to receive hydrology from precipitation and runoff from the adjacent uplands and impervious abandoned automobile drag strip. Wetland 4 is a low to moderate quality wetland providing functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage and drainage. Wetland 4 drains south via two drainageways (which include culverted sections) into an off-site east-west ditch which outlets into Cayuga Creek, a Section 10 navigable water of the U.S., which eventually flows into the Niagara River, a Section 10 navigable water of the U.S. As such, Wetland 4 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 4 a federally jurisdictional WOUS.

Wetland 5 (0.426 acre) is a Palustrine Scrub-shrub and emergent mixed wetland located within historic farm furrows/drainage features in the landscape. Four east-west furrows all connect to the man-made drainage ditch located along the eastern property line/Tuscarora Road. Portions of the drainage ditch met wetland criteria and were mapped and included in the wetland acreage. Though the northern two furrows are contiguous, the southern two non-contiguous portions are connected via culverts to the larger Wetland 5 system. The area surrounding Wetland 5 has been previously modified by agricultural activities, mowing, and historic road construction. The soil profile of Wetland 5 was consistent with the 'Depleted Matrix' (F3) hydric soil indicator. Wetland 5 appears to receive hydrology from precipitation and runoff from the adjacent uplands and impervious Tuscarora Road surface. Wetland 5 is of low to moderate quality providing wetland functions and services including wildlife habitat, nutrient and pollutant attenuation and processing, and local floodwater storage and drainage. Wetland 5 drains south via the roadside ditch (which includes culverted sections) into an off-site east-west ditch which outlets into Cayuga Creek, a Section 10 navigable water of the U.S., which eventually flows into the Niagara River, a Section 10 navigable water of the U.S. As

such, Wetland 5 is a wetland adjacent to a Traditionally Navigable Waterway making Wetland 5 a federally jurisdictional WOUS.

Wetland Identifier	Size (acres)	Cowardin Class	Jurisdictional Status
		(Palustrine)	
Wetland 1	0.024	Scrub-shrub	Jurisdictional
Wetland 2	0.005	Scrub-shrub/Emergent	Jurisdictional
Wetland 3	0.086	Scrub-shrub/Emergent	Jurisdictional
Wetland 4	0.222	Scrub-shrub/Emergent	Jurisdictional
Wetland 5	0.426	Scrub-shrub/Emergent	Jurisdictional

Table 4. Summary of Alternative 3 Parcel on-site wetlands.

Wetland Delineation Report: Border Patrol Station, Buffalo Sector-Niagara Area of Responsibility

2013

4.0 CONCLUSION AND RECOMMENDATIONS

4.1 Conclusion

USACE Biologists completed an in-office evaluation of available resources including U.S. Fish and Wildlife Service NWI maps, USGS quadrangle maps, Bing aerial photography, and USGS NHD maps, etc. to collect preliminary information regarding environmental conditions for three parcels located in the Town of Niagara, Niagara County, New York. Following review of in-office resources, wetland delineation field activities were conducted on 23 April 2013, 24 April 2013, 25 April 2013, 7 May 2013, 17 May 2013, and 5 June 2013. Data were collected and compiled with previous delineation data. Following the field delineation, wetland delineation maps were created to illustrate the findings. Findings for each of the three parcels are summarized below.

Alternative 1 Parcel

Three wetlands (Wetlands 1, 2, and 3) totaling approximately 0.468 ac. and one perennial stream (Stream 1) spanning 705.59 LF were identified on the parcel (Figures 26 and 27, Appendix C) during the course of a field investigation based upon the three parameter (vegetation, soils, and hydrology) wetland delineation conducted in accordance with the USACE 1987 Manual (USACE Environmental Laboratory, 1987) and Regional Supplement (USACE Environmental Laboratory, 2012). Wetland 3 and Stream 1 were found to have a connection to a WOUS and would therefore be considered federally jurisdictional. Wetlands 1 and 2 appeared to be hydrologically isolated without a connection to a WOUS and therefore, these wetlands would be considered isolated wetlands not regulated under Section 404 of the Clean Water Act.

Alternative 2 Parcel

Six wetlands (Wetlands 1, 2, 3, 4, 5, and 6) totaling approximately 3.248 ac. were identified on the parcel (Figures 28 and 29, Appendix C) during the course of a field investigation based upon the three parameter (vegetation, soils, and hydrology) wetland delineation conducted in accordance with the USACE 1987 Manual (USACE Environmental Laboratory, 1987) and Regional Supplement (USACE Environmental Laboratory, 2012). Wetlands 2, 4, and 5 were found to have a connection to WOUS and would therefore be considered federally jurisdictional. No connection was observed between Wetlands 1 and 3 and a WOUS; therefore, these wetlands would be considered isolated wetlands not regulated under Section 404 of the Clean Water Act.

Alternative 3 Parcel

Five wetlands (Wetlands 1, 2, 3, 4, and 5) totaling approximately 0.763 ac. were identified on the parcel (Figures 30 and 31, Appendix C) during the course of a field investigation based upon the three parameter (vegetation, soils, and hydrology) wetland delineation conducted in accordance with the USACE 1987 Manual (USACE Environmental Laboratory, 1987) and Regional Supplement (USACE Environmental Laboratory, 2012). Wetlands 1, 2, 3, 4, and 5 were found to have a connection to WOUS and would therefore be considered federally jurisdictional.

4.2 Recommendations

- (1) If any in-water work is proposed, the USACE recommends that CBP submit a written request for a jurisdictional determination for the project parcel to the USACE Buffalo District Office.
- (2) If it is determined that no impacts are proposed to federally jurisdictional waters, based on the results of the jurisdictional determination, the project may proceed without the need for a Corps Section 404 Permit.
- (3) If any wetland impacts are proposed based on the results of the jurisdictional determination, a Joint Permit Application package including supporting drawings, etc. should be submitted to the USACE Buffalo District Office and the New York State Department of Environmental Conservation.

APPENDIX A – SITE LOCATION MAPS

Figure 1. Overview Location Map

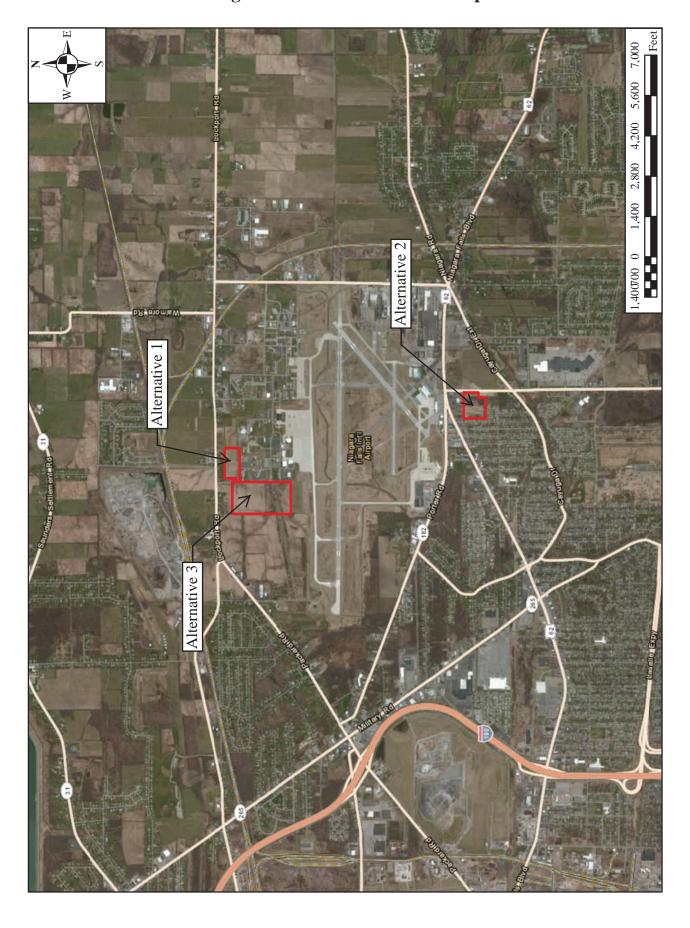


Figure 2. Alternative 1 Location Map

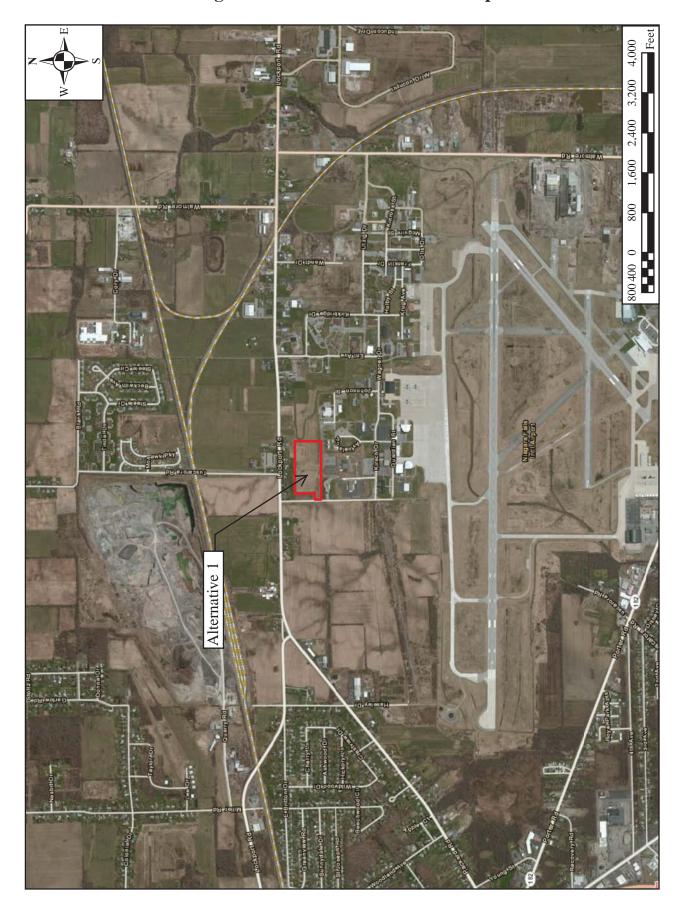


Figure 3. Alternative 2 Parcel Location Map



Figure 4. Alternative 3 Parcel Location Map



Wetland Delineation Re	port: Border Patrol Station	Buffalo Sector-Niagara	Area of Responsibility

APPENDIX B – SECONDARY RESOURCE MAPS

Figure 5. Alternative 1 Parcel - Bing Aerial Photograph Map



Figure 6. Alternative 1 Parcel - USGS Quad Map

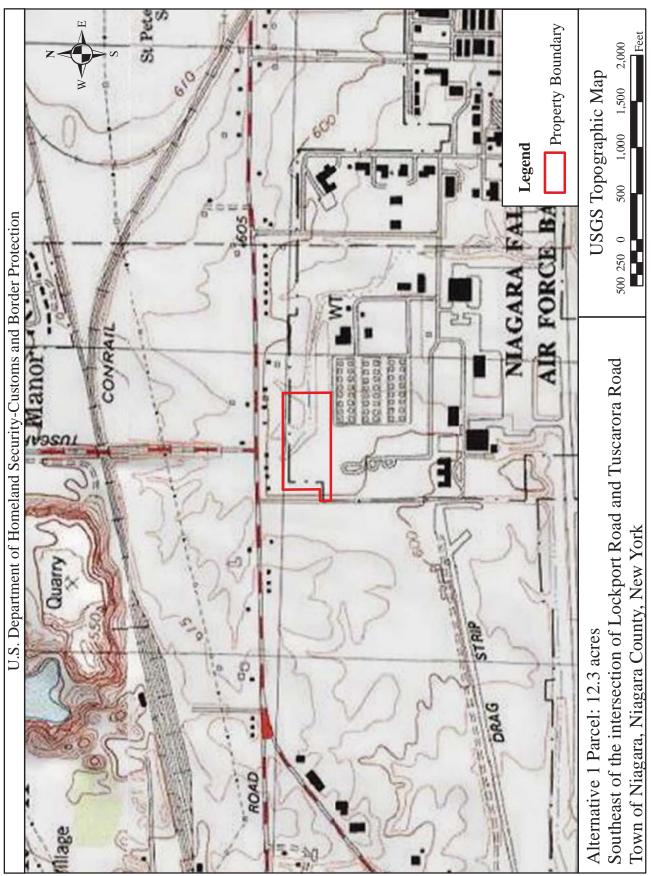


Figure 7. Alternative 1 Parcel - USFWS National Wetland Inventory (NWI) Map

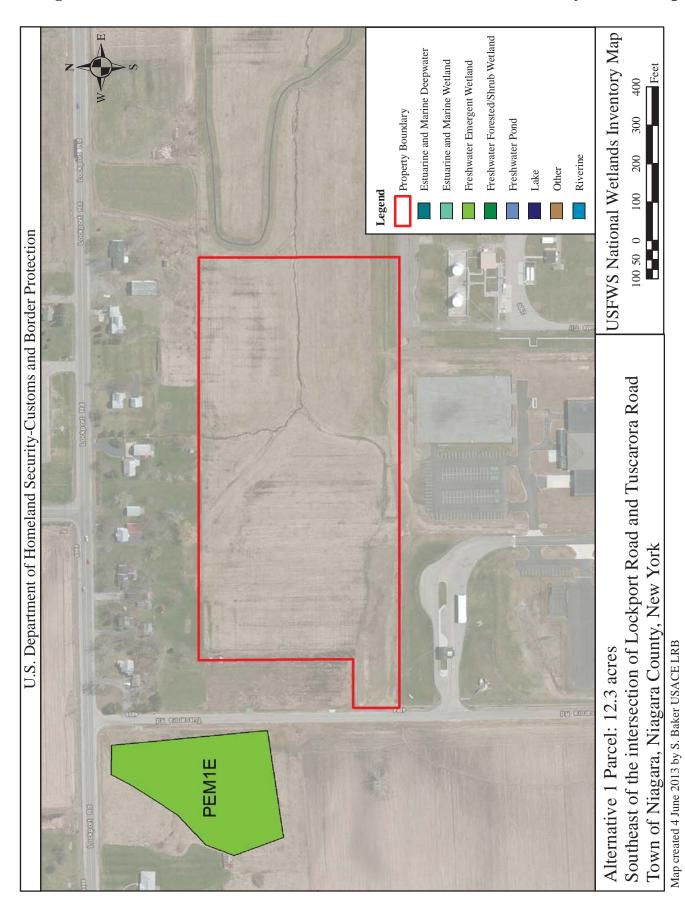


Figure 8. Alternative 1 Parcel - USGS National Hydrography Dataset (NHD) Map

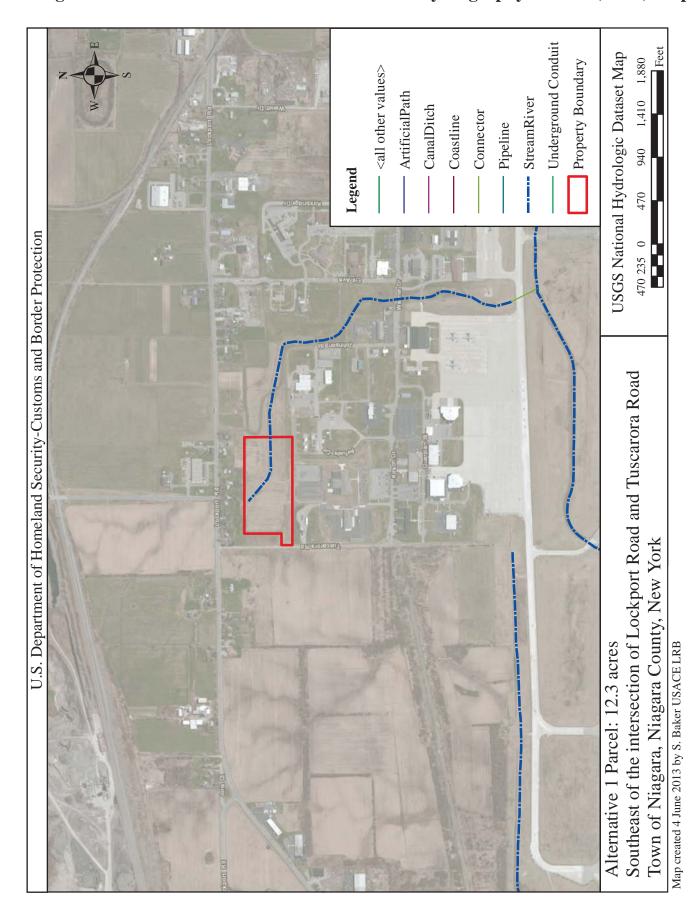


Figure 9. Alternative 1 Parcel - USDA Niagara County Soil Survey Map

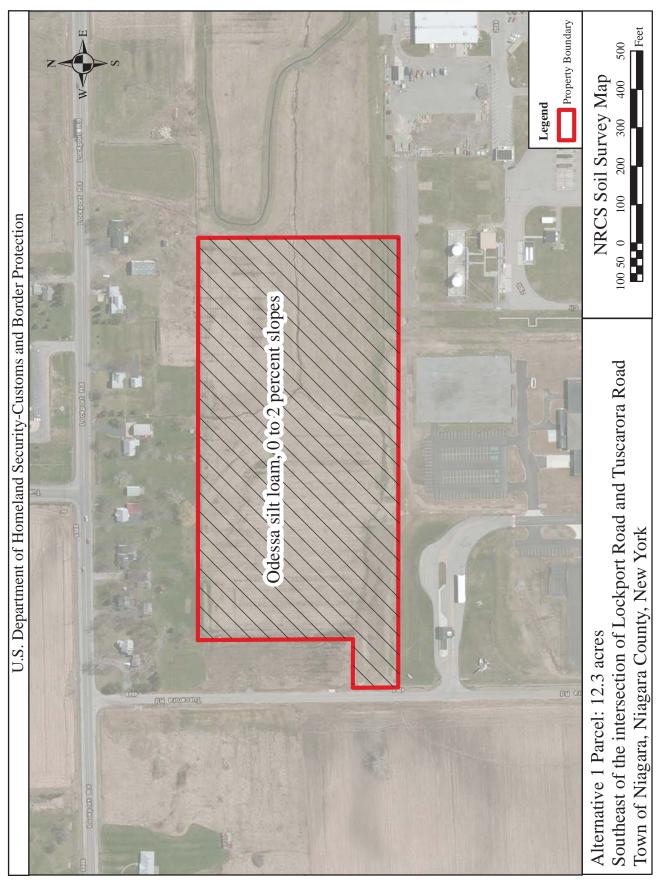


Figure 10. Alternative 1 Parcel - FEMA Floodplain Map

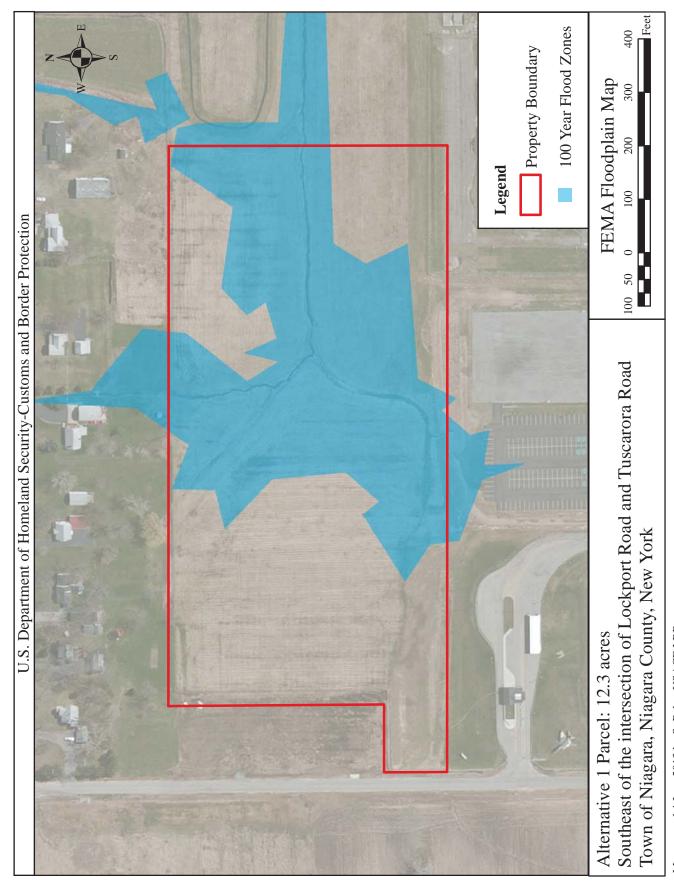


Figure 11. Alternative 1 Parcel - NYSDEC Wetland and Stream Map

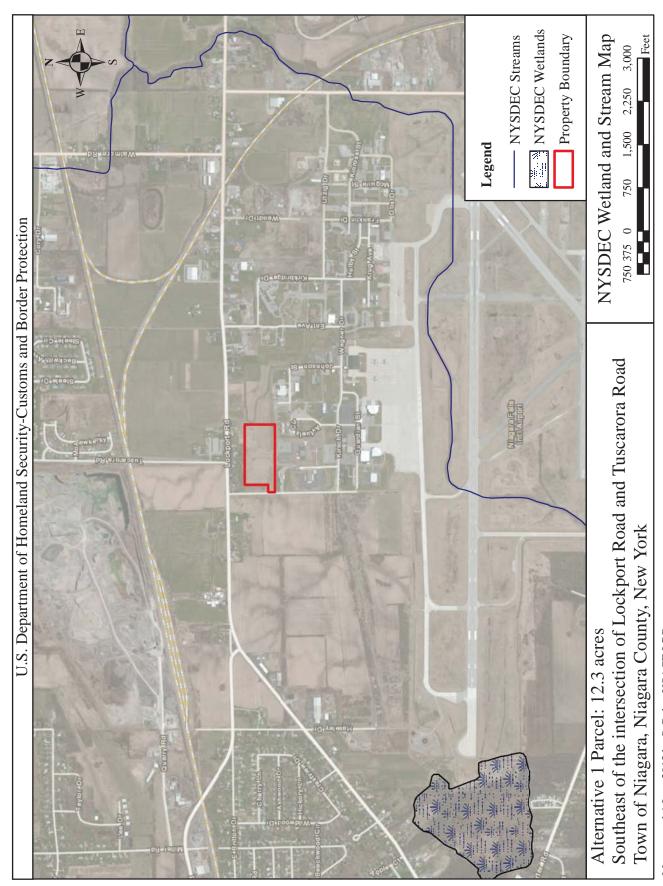


Figure 12. Alternative 2 Parcel - Bing Aerial Photograph Map



Figure 13. Alternative 2 Parcel - USGS Quad Map

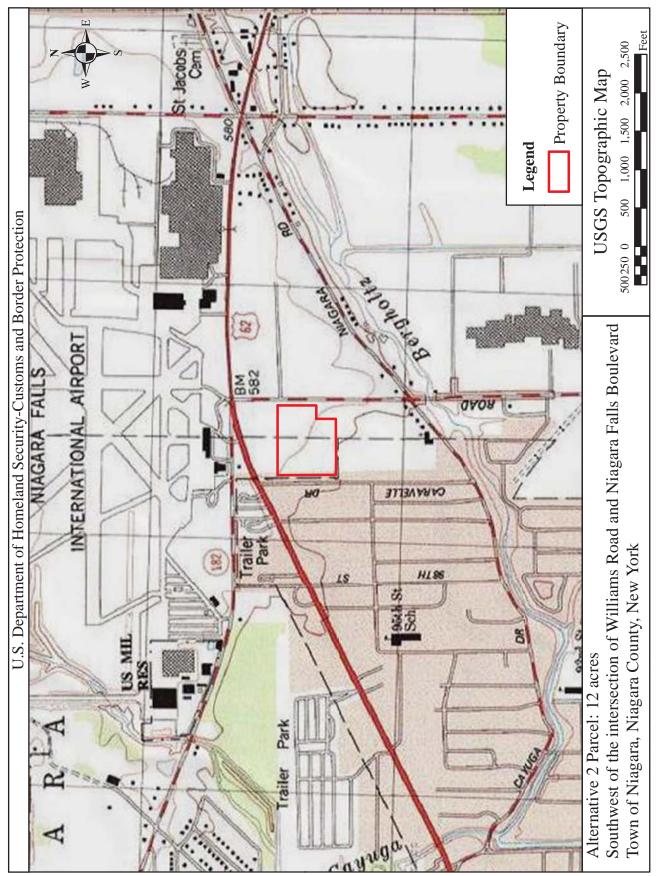


Figure 14. Alternative 2 Parcel - USFWS National Wetland Inventory (NWI) Map

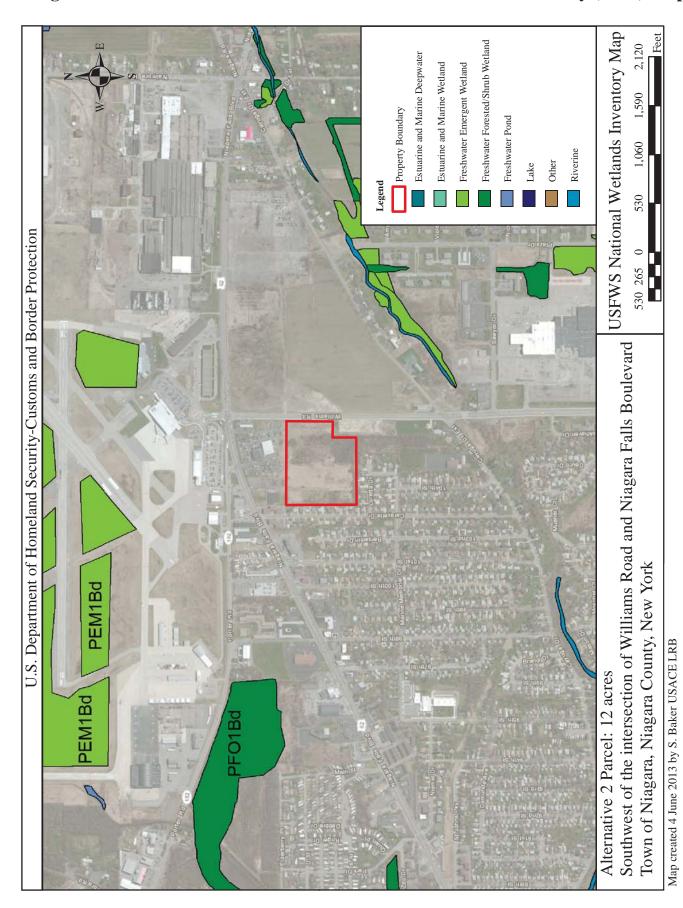


Figure 15. Alternative 2 Parcel - USGS National Hydrography Dataset (NHD) Map

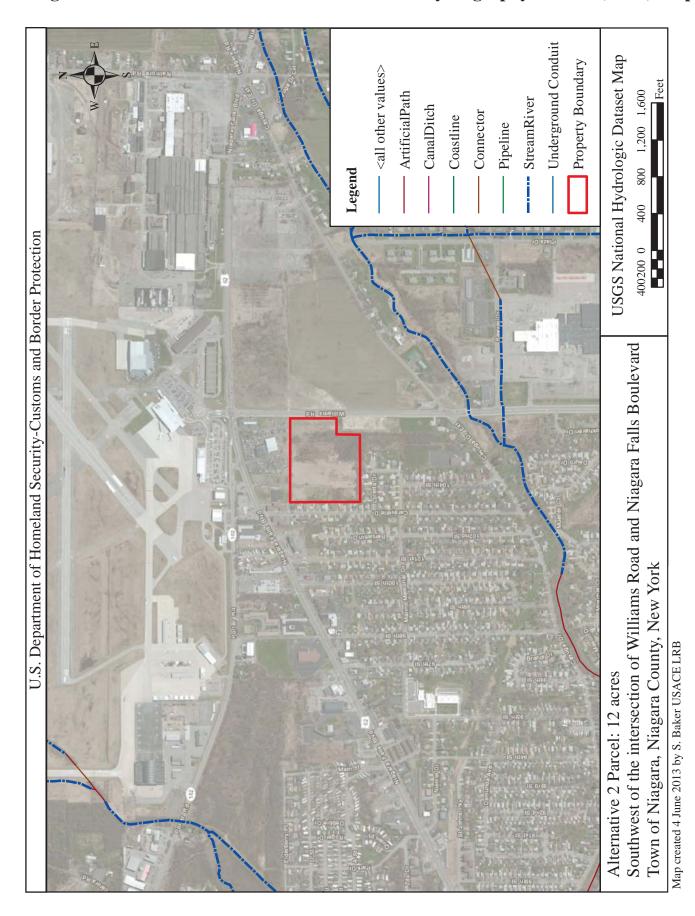


Figure 16. Alternative 2 Parcel - USDA Niagara County Soil Survey Map

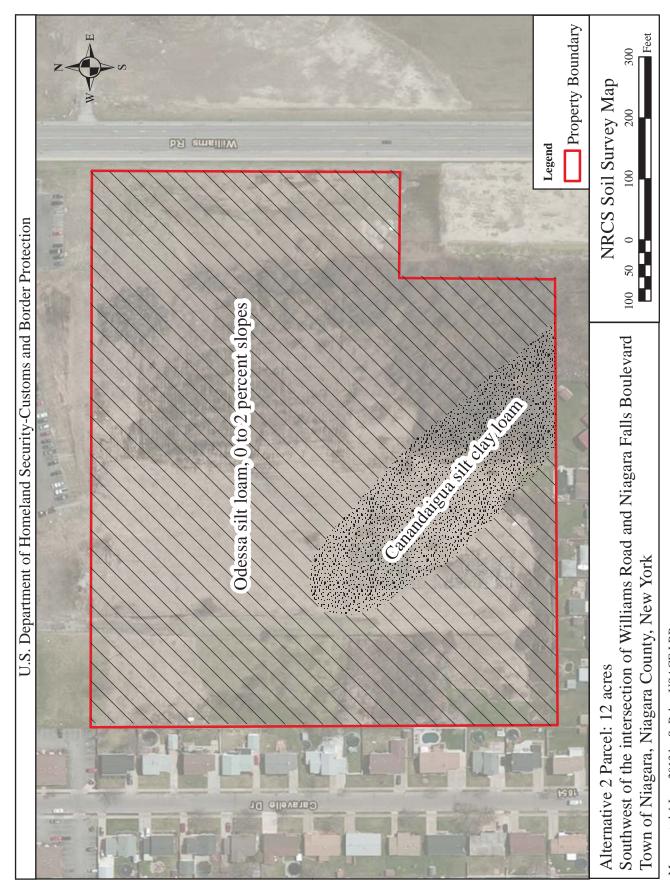


Figure 17. Alternative 2 Parcel - FEMA Floodplain Map

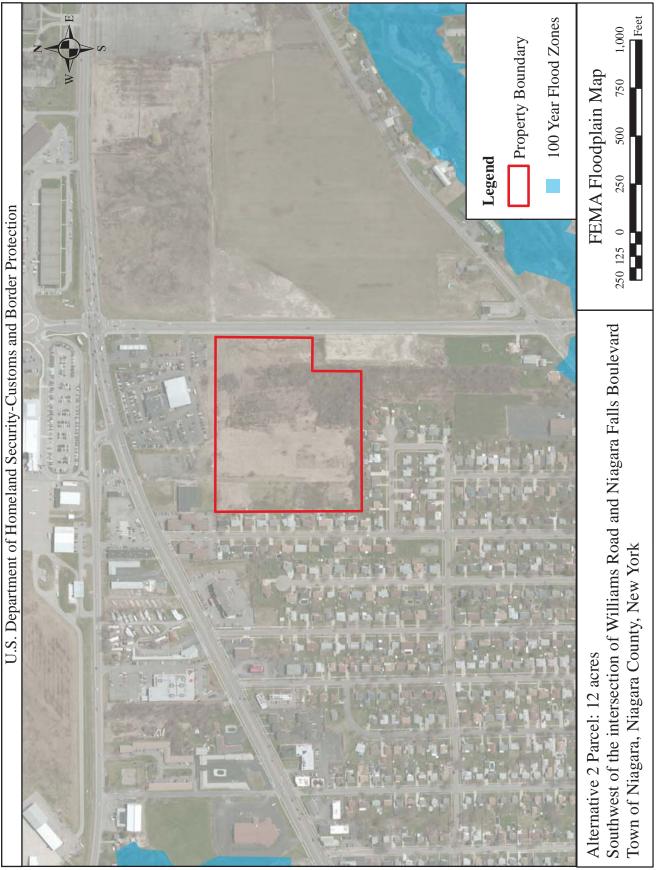


Figure 18. Alternative 2 Parcel - NYSDEC Wetland and Stream Map

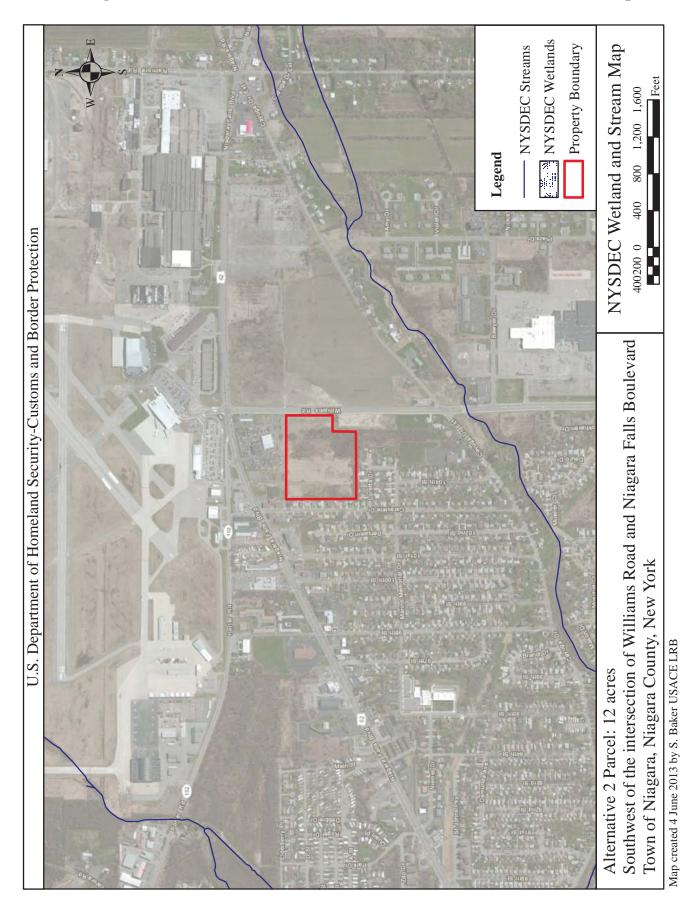


Figure 19. Alternative 3 Parcel - Bing Aerial Photograph Map



Figure 20. Alternative 3 Parcel - USGS Quad Map

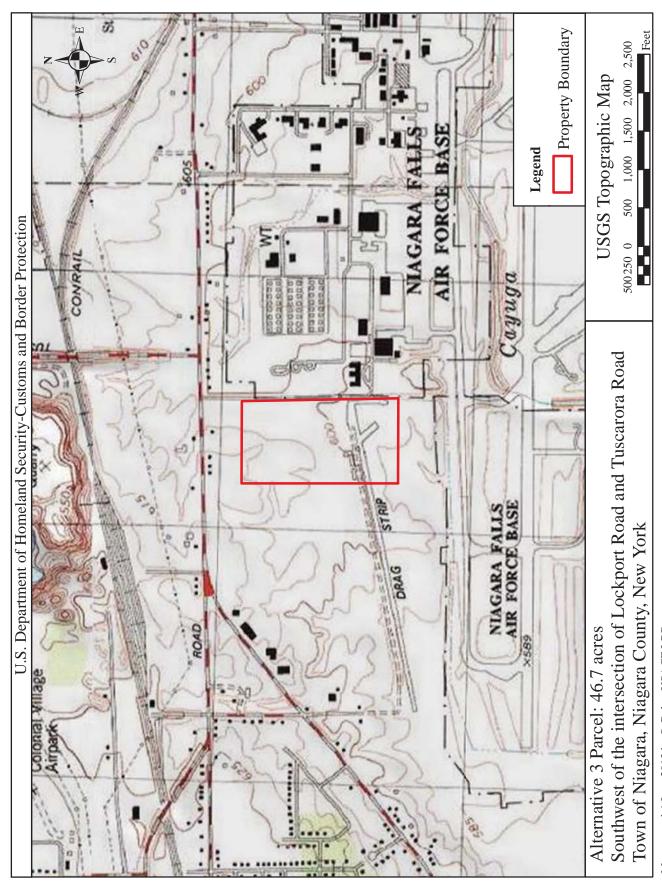


Figure 21. Alternative 3 Parcel - USFWS National Wetland Inventory (NWI) Map

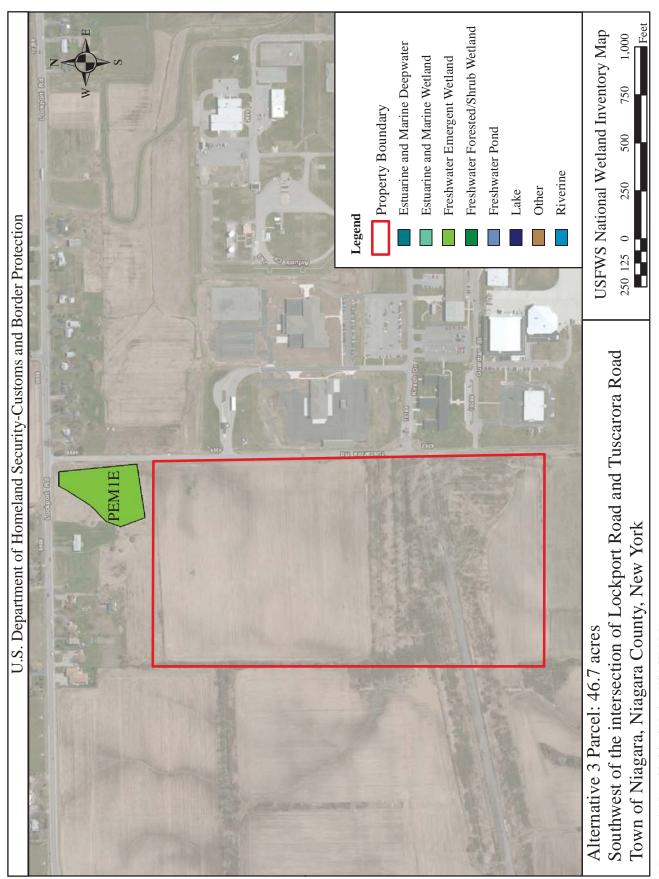


Figure 22. Alternative 3 Parcel - USGS National Hydrography Dataset (NHD) Map

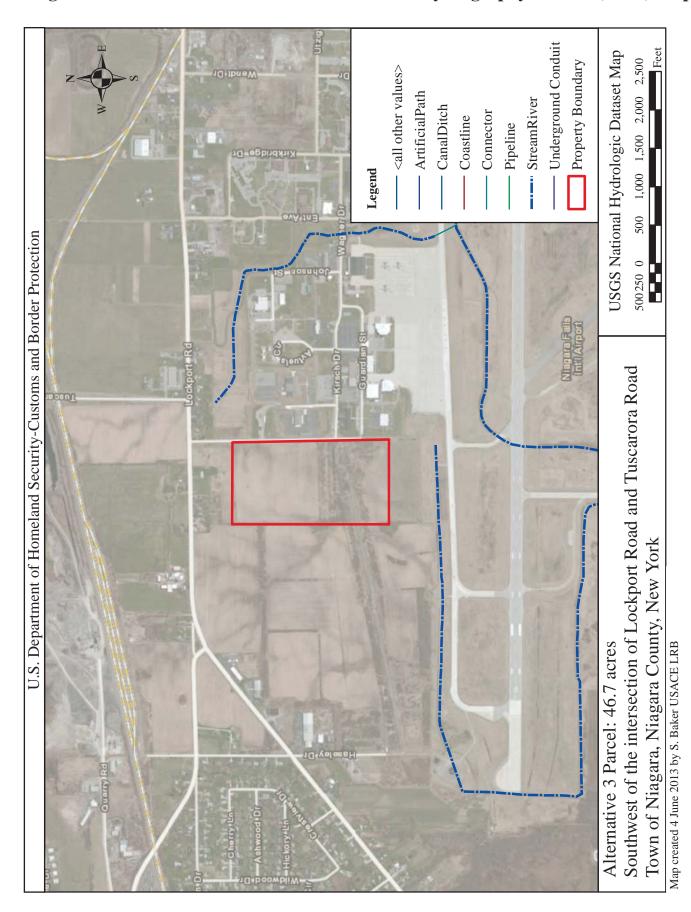


Figure 23. Alternative 3 Parcel - USDA Niagara County Soil Survey Map

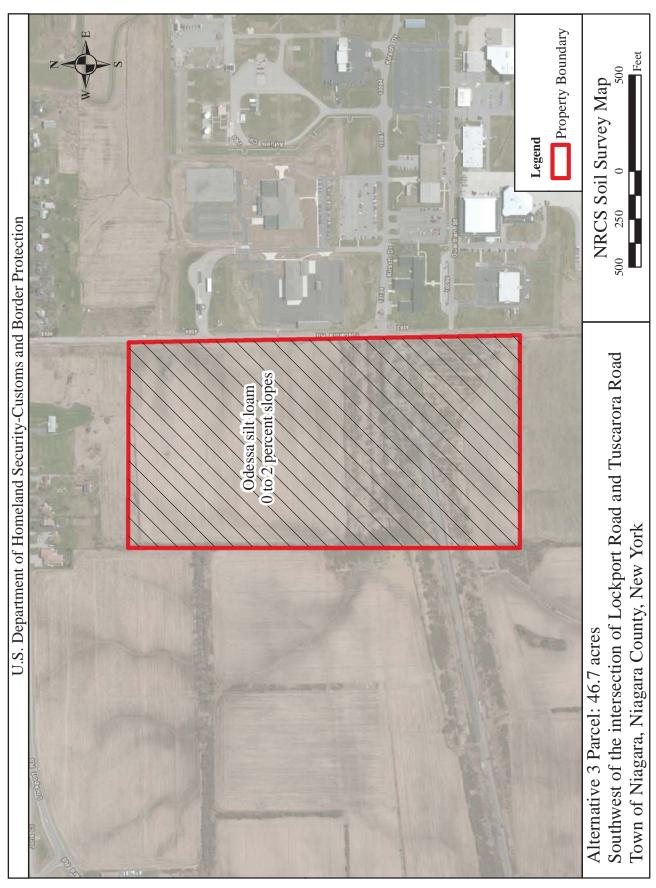


Figure 24. Alternative 3 Parcel - FEMA Floodplain Map

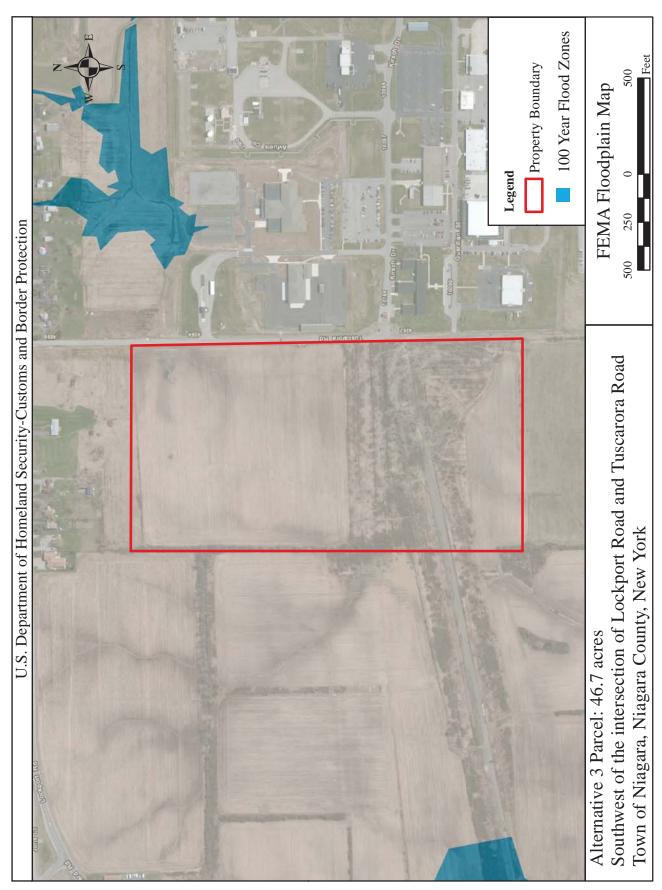
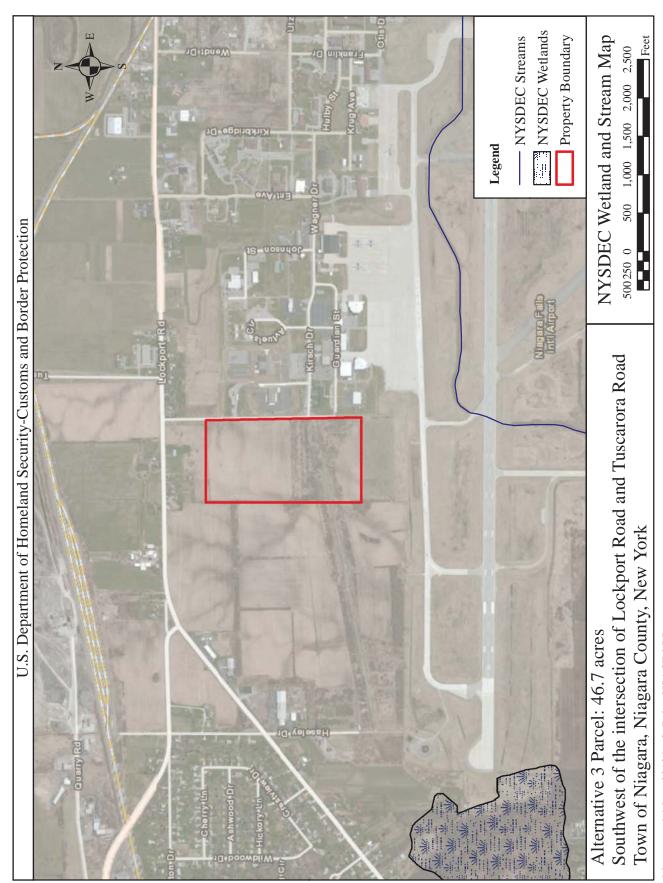


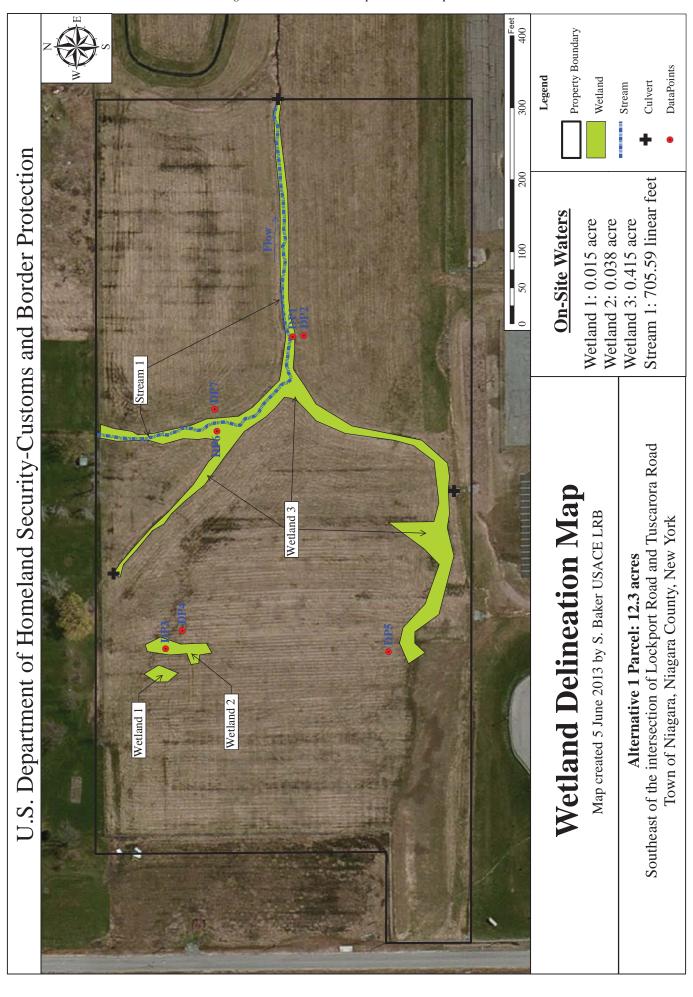
Figure 25. Alternative 3 Parcel - NYSDEC Wetland and Stream Map



Wetland Delineation	Report: Border Patrol Station,	Buffalo Sector-Niagara	Area of Responsibility
Wettand Demication	Report. Dorder I allor Station,	, Dullaid Sector I magara i	irea or recoponisionity

\mathbf{a}	Λ	4	
			-
	v		

APPENDIX C – WETLAND DELINEATION MAPS



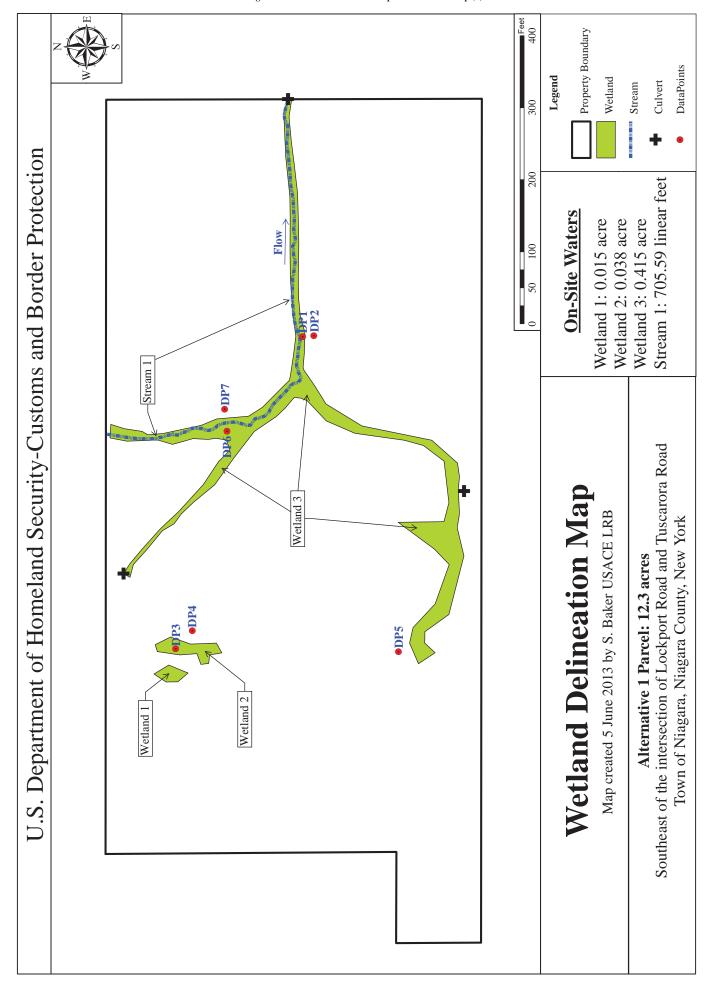


Figure 28. Alternative 2 Parcel - Aquatic Resource Map

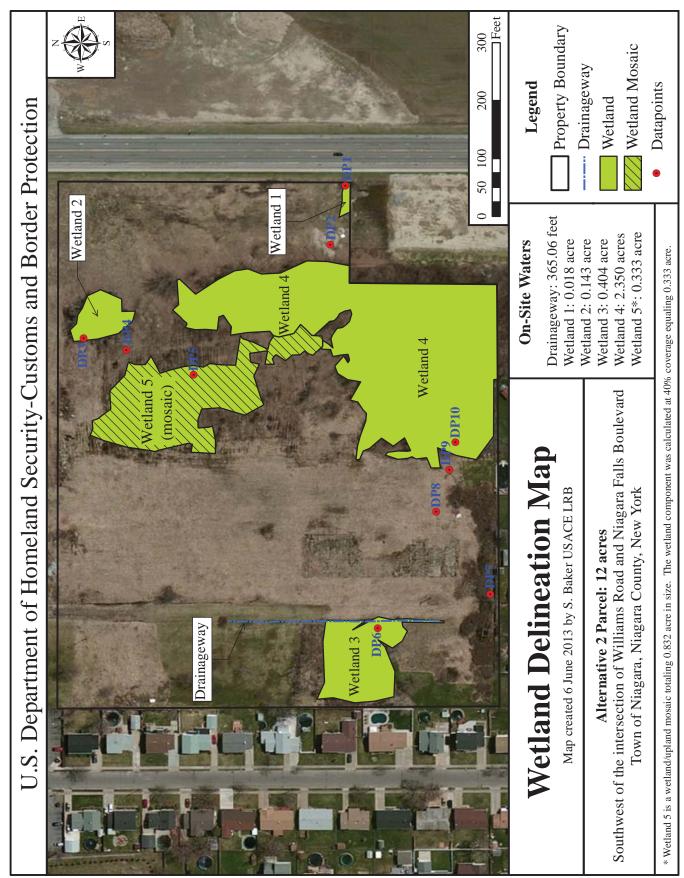


Figure 29. Alternative 2 Parcel - Aquatic Resource Map (2)

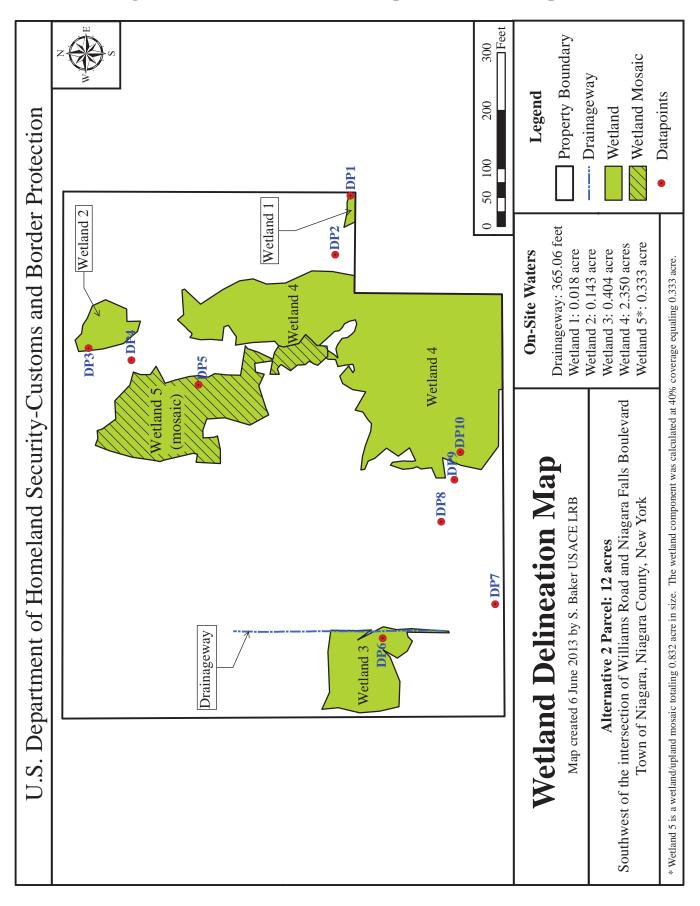


Figure 30. Alternative 3 Parcel - Aquatic Resource Map

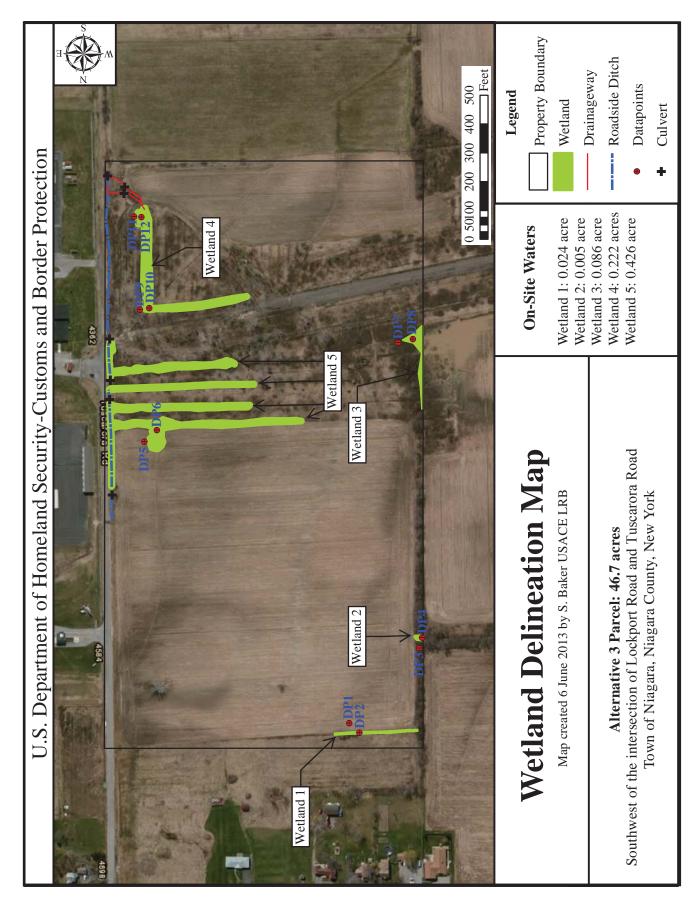
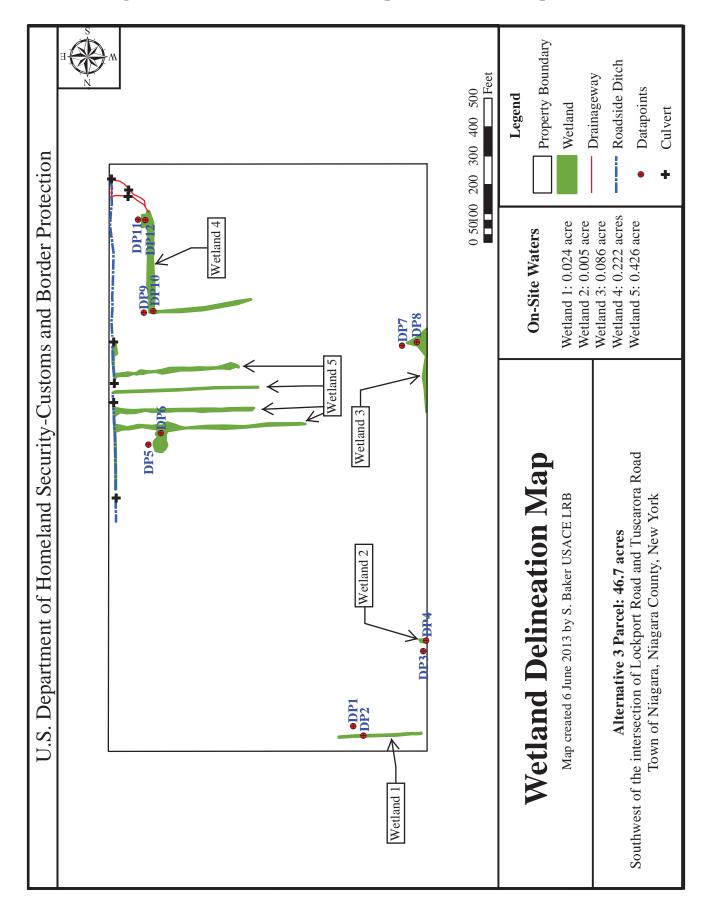


Figure 31. Alternative 3 Parcel - Aquatic Resource Map (2)



APPENDIX D – PHOTOGRAPH LOCATION MAPS AND SITE PHOTOGRAPH LOG

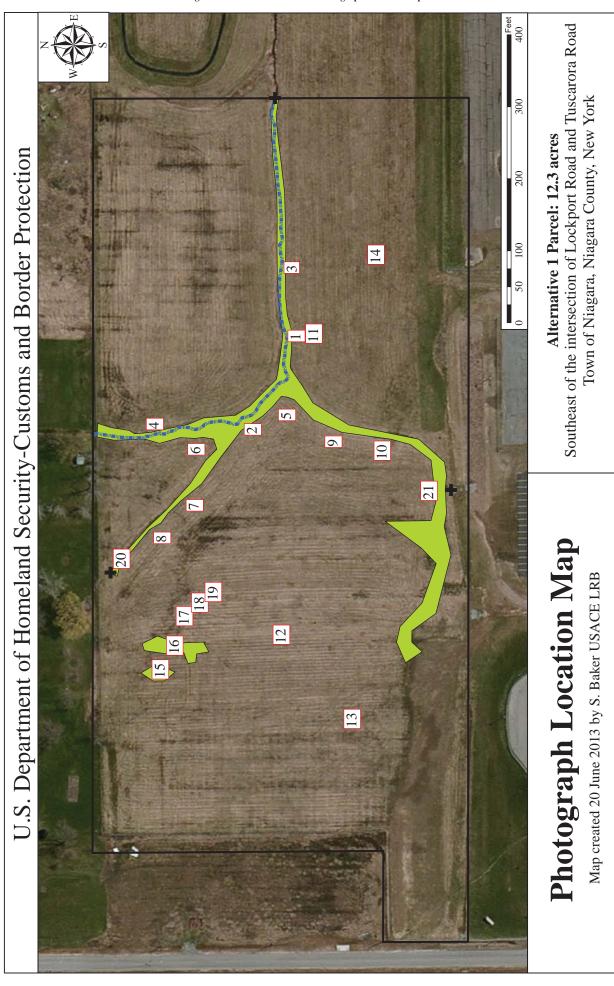


Figure 33. Alternative 2 Parcel - Photograph Location Map

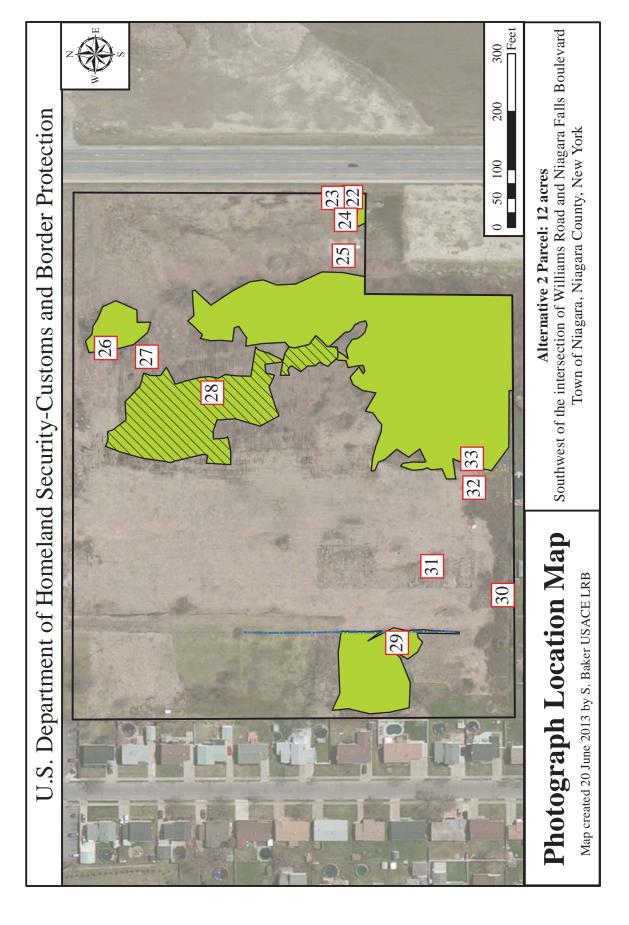
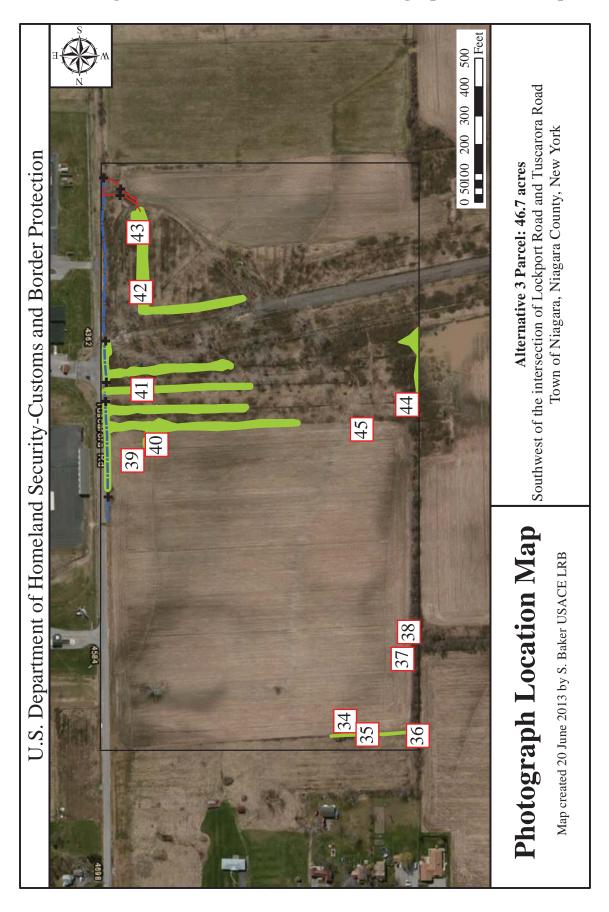


Figure 34. Alternative 3 Parcel - Photograph Location Map





Photograph 1: Site 1, DP 1, Wetland 3 and Stream 1, (Facing east)



Photograph 2: Site 1, Wetland 3 fringe and Stream 1, (Facing northwest)



Photograph 3: Site 1, Wetland 3 and Stream 1, (Facing east)



Photograph 4: Site 1, Wetland 3 east fork of wetland and Stream 1, (Facing north/northeast)



Photograph 5: Site 1, Wetland 3 east fork, (Facing east, near center of wetland)



Photograph 6: Site 1, Wetland 3 northeast fork of wetland and Stream 1, (Facing north/northwest)



Photograph 7: Site 1, Wetland 3 northwest fork of wetland, (Facing northwest)



Photograph 8: Site 1, Wetland 3 northwest fork of wetland, (Facing northwest)



Photograph 9: Site 1, Wetland 3 southern fork of wetland, (Facing southwest)



Photograph 10: Site 1, Wetland 3 southern fork of wetland, (Facing south)



Photograph 11: Site 1, Upland DP 2, (Facing west)



Photograph 12: Site 1, Upland Field in west central portion of site, (Facing north)



Photograph 13: Site 1, Upland field in southwest portion of site, (Facing southwest)



Photograph 14: Site 1, Upland field in southeast portion of site, (Facing east)



Photograph 15: Site 1, DP 3, Wetland 1



Photograph 16: Site 1, DP 3, Wetland 1



Photograph 17: Site 1, DP 4, Upland



Photograph 18: Site 1, DP 4, Upland



Photograph 19: Site 1, Upland field, (Facing south from DP 4)



Photograph 20: Site 1, north culvert



Photograph 21: Site 1, south culvert



Photograph 22: Site 2, DP 1, Wetland 1



Photograph 23: Site 2, DP1, Wetland 1



Photograph 24: Site 2, DP 1, Wetland 1



Photograph 25: Site 2, DP 2, Upland





Photograph 27: Site 2, DP 4, Upland



Photograph 28: Site 2, DP 5, Wetland 5



Photograph 29: Site 2, DP 6, Upland



Photograph 30: Site 2, DP 7, Upland



Photograph 31: Site 2, DP 8, Upland



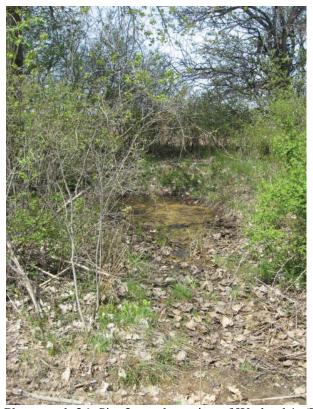


Photograph 33: Site 2, DP 10, Wetland 4





Photograph 35: Site 3, DP 2, Wetland 1, (Facing north)



Photograph 36: Site 3, south portion of Wetland 1, (Facing west)



Photograph 37: Site 3, DP 3, Upland



Photograph 38: Site 3, DP 4, Wetland 2



Photograph 39: Site 3, DP 5, Upland, (Facing northwest)



Photograph 40: Site 3, DP 6, Wetland 5, (Facing southwest)



Photograph 41: Site 3, Wetland 5, Finger 3, (Facing west)



Photograph 42: Site 3, DPs 9 and 10, north portion of Wetland 4, (Facing west) (Photo Credit: URS, 2011)



Photograph 43: Site 3, DPs 11 and 12, south portion of Wetland 4, (Facing north) (Photo Credit: URS, 2011)



Photograph 44: Site 3, DP 8, Wetland 3



Photograph 45: Site 3, DP 7, Upland point Facing west towards Wetland 3

APPENDIX E-WETLAND DETERMINATION DATA FORMS

Sitel

Upland

WEILAND DETERMINATION DATA FORM - Northcentral and Northeast Region			
Project/Site: Aiv ruguru Station City/County: niagava Sampling Date: 17-WAY-			
Applicant/Owner: State: N Sampling Point: VV /			
Investigator(s): TAVASIANIAS/ PAVAV Section, Township, Range:			
Landform (hillslope, terrace, etc.): Hat bild Local relief (concave, convex, none): MONL Slope (%): O			
Subregion (LRR or MLRA): Lat: Long: Datum:			
Soil Map Unit Name: Odessa 51th clay 002 % Slapes NWI classification: Name			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly disturbed?			
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No Ves No Yes No No Yes Yes Yes No Yes			
Wetland Hydrology Present? Yes No / If yes, optional Wetland Site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)			
DP @ GPS 368 photo 1520			
old agfield, probably drained. Field recently moved			
HYDROLOGY			
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)			
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations:			
Surface Water Present? Yes NoX Depth (inches):			
Water Table Present? Yes NoX Depth (inches):			
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
best new recorded bala (ereally gauge, memoring wen, actual process, provides inspections), it available.			
Remarks:			
Field praviously tilled?			
E.			

Tree Stratum (Plot size: 30 (Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet: Number of Dominant Species
1. The second of		That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15) 1.	= Total Cover	OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A =
6	= Total Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Lespedera hirter 4. Potentilla simplex 5. Taraxicum officionale 6. Aansto capillaris	FACU N	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata:
7. VICIA CVACCA		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	= Total Cover	Woody vines – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 15) 1. NA 2	= Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)	I test indicates ng point is upland

Profile Des	cription: (Describe to the	depth needed to docu	ment the indicator	or confirn	n the absence of indic	ators.)
Depth	Matrix	Redo	ox Features	. 2		
(inches)	Color (moist) %	_	%Type ¹	_Loc ²	Texture	Remarks
0-12	7.517 1/2 100	<u> </u>				
500 m (s)						
				-		
				-		
						3
12						
	13.					
				-		
<u></u>						
1T.may 0-0		MA-Daduard Markin MA			21 II DI DI	
Hydric Soil I	oncentration, D=Depletion, F	INI=Reduced Matrix, MS	s=Iviasked Sand Gr	ains.		e Lining, M=Matrix. Iematic Hydric Soils³:
Histosol		Polyvalue Relov	v Surface (S8) (LRI	D D) (LRR K, L, MLRA 149B)
	pipedon (A2)	MLRA 149B)		· 11,		edox (A16) (LRR K, L, R)
Black His			ce (S9) (LRR R, MI	RA 149B)		at or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		lineral (F1) (LRR K		Dark Surface (S	
	Layers (A5)	Loamy Gleyed I				Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	Depleted Matrix				ce (S9) (LRR K, L)
	rk Surface (A12)	Redox Dark Sur				Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	Depleted Dark S				olain Soils (F19) (MLRA 149B)
	leyed Matrix (S4) edox (S5)	Redox Depressi	ons (F8)			A6) (MLRA 144A, 145, 149B)
	Matrix (S6)				Red Parent Mate	rk Surface (TF12)
	face (S7) (LRR R, MLRA 14	.9B)			Other (Explain in	
		M.				. , , , , , , , , , , , , , , , , , , ,
	hydrophytic vegetation and	wetland hydrology mus	be present, unless	disturbed of	or problematic.	
	ayer (if observed):					
Type: M	out progendo	→ :				
Depth (inc	hes):	_			Hydric Soil Present?	Yes No
Remarks:		11_110000000				
	74			3*		
cni	15 previou	SIU HILL				
001	1) provid	1 11110	112			
	830	9				
	P :				2	8
					T	
	¥11					

Sitel

Wetland 3

	RM – Northcentral and Northeast Region
Project/Site: AY PLSWVL STORN City/O	County: NI agava Sampling Date: 17 MAY - 2013
Applicant/Owner:	State: Sampling Point: DP 2
Investigator(s): Tavasiuwitt / Bakw Secti	on, Township, Range:
Landform (hillslope, terrace, etc.): <u>AIONA STYLAW</u> Local rel	ief (concave, convex, none): 100 of 51000 Slope (%): 0-2
Subregion (LRR or MLRA): LRT L Lat:	Long: Datum:
	2 Stages NWI classification: Palustrine emerginal
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology X significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
	m width ~7' (varies 6-8')
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
	Dry-Season Water Table (C2) pr (C1) Crayfish Burrows (C8)
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes X No Depth (inches): 7	
Saturation Present? Yes X No Depth (inches): 5	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections) if available:
December Necessary Balance Bal	node inspections), if available.
Remarks:	
stream culverted in w	nultiple locations
field adjacent probably	tiled spream channelized
	· ·

١	/EGETATIO	N - Use	scientific	names	of pla	ants

Sampling Point: NP 21

- a		Dominant Indica	
Tree Stratum (Plot size: 30')	<u>% Cover</u>	Species? Stat	Number of Dominant Species 2
1.1/1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant 2
3			
4			
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5			
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
1-1		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15")			FACW species x 2 =
1. N/A			FAC species x 3 =
			FACU species x 4 =
2			UPL species x 5 =
3			Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
		- Total Cours	2 - Dominance Test is >50%
[T		= Total Cover	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5) 1. Fragaria Virainiana	tr.	N FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Clisium allhsimum	TY.	N UP	· · · · · · · · · · · · · · · · · · ·
3. Harros stolonifera	30	Y FAC	¹Indicators of hydric soil and wetland hydrology must
4 PUMIX CVISPUS	1	N FA	
5. CAVEX STIPATA	5	N OB	11.11.11.11.11.11.11.11.11.11.11.11.11.
6. Tupha angustifolia	00	Y 00	21
7 . 13	20		Tree Trees, plante o in (1.5 only of more in diameter
7. Dublans arundinacca	10	Y FAC	2017
8. Chrysanthemum partnenium	2	N NI	
9. COVNUS VALEMOSA		N FA	and greater than or equal to 5.26 it (1 iii) tall.
10. Lythrum Spp	2	N Un	Herb - All herbaceous (non-woody) plants, regardless of
11.		iii	size, and woody plants less than 3.28 ft tall.
		*	Woody vines – All woody vines greater than 3.28 ft in
12	01		height.
16'	801_	= Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.11			
2.			Hydrophytic
3			Vegetation Present? Yes No
4			_
4			-
Remarks: (Include photo numbers here or on a separate		= Total Cover	
split plot in half to each side of stream to		v fringe aprisori	tative data

Sampling Point: DPZ

The state of the s	cription: (Describe	to the de			dicator	or confin	m the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
0-4"	10 YP 1/2	99	10/12/10	7	0	14	Fines	Kemana
4:12"	11748 4/2	95	104 R 46	5	C	NA	Fines	
1.12	1011		1011 76			14	11.	
				-		\ 		
	·							
-	B 							
						-		
						-	2	
Hydric Soil	oncentration, D=Depl Indicators:	etion, RM	=Reduced Matrix, MS	S=Masked S	Sand Gr	ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (S	88) (LR I	RR,		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)				Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Surfa Loamy Mucky N					ucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleyed I		LICITION	, =)		ue Below Surface (S8) (LRR K, L)
	Below Dark Surface	(A11)	Depleted Matrix					rk Surface (S9) (LRR K, L)
	ark Surface (A12) lucky Mineral (S1)		Redox Dark Sui Depleted Dark S		¥.			nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress					podic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							rent Material (F21)
	Matrix (S6) face (S7) (LRR R, M	Ι ΡΔ 149Ε	8)					allow Dark Surface (TF12) Explain in Remarks)
Dank Out	idoo (O/) (Erdit it; iii	LIVA 1401	,				00101 (2	Explain in Comarkoy
	hydrophytic vegetati	on and we	tland hydrology mus	t be present	t, unless	disturbed	or problematic.	
Restrictive L	ayer (if observed): ONO ONSM	ad						
Depth (inc		,					Hydric Soil F	Present? Yes No
Remarks:							Tryunc con i	163 <u></u>
					•			
								"
								ÿ.

Stel

wet DP 3

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Pr	County: <u>NIAGAYA</u>	Sampling Date: 5 thre - 2013						
Applicant/Owner: PDS	State:	NY Sampling Point: MP3						
Investigator(s): BANN / TAYAGIWILL Section, Township, Range:								
Landform (hillslope, terrace, etc.): Plain Local re		neave Slope (%):0-2						
Subregion (LRR or MLRA): LRL Lat:								
Soil Map Unit Name: Odessasity Cky 0-29, 56	Long.	Jalanisanian Almal						
Are climatic / hydrologic conditions on the site typical for this time of year?								
Are Vegetation Soil, or Hydrology significantly distu	bed? Are "Normal Circums	tances" present? Yes No_X						
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain an	y answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sar	npling point locations, tra	nsects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	7						
Hydric Soil Present? Yes X No	within a Wetland? (Ye	s/X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:_							
Remarks: (Explain alternative procedures here or in a separate report.)								
Field likely previously tited small isolated wetland in dep	assional area							
HYDROLOGY		3						
Wetland Hydrology Indicators:	Seconda	ry Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)		ace Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leave		nage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	71. a 181 - 1810 t	s Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)		Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Od		fish Burrows (C8)						
Sediment Deposits (B2) Solidized Rhizospher		ration Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stun	ted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) 🔀 Geor	norphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (0	(7) Shall	ow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer	narks) Micro	otopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-	Neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes No Depth (inches):		1						
Water Table Present? Yes No _X_ Depth (inches):								
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology	Present? Yes/X No						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:							
Remarks;								
soils are saturated to s	wface							
Sample point representai of wetland I and wet	tive and Z							

AN RESUVE SITE VEGETATION – Use scientific names of plants.

net DP3

	70.7			Camping Font:
Tree Stratum (Plot size: 20')			nt Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL FACW or FAC:
1				That Are OBL, FACW, or FAC:(A)
2		- CO.	_	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
				, , , , , , , , , , , , , , , , , , , ,
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
1-1		= Total C	over	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. CORNUS Vacemosa	2	Y	FAC	FAC species x3 =
			Carlo	FACU species x 4 =
2. Maxinus pennsylvanica	- —		PACN	UPL species x 5 =
3				Column Totals: (A) (B)
4				(b)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6		-		
7		-		1 - Rapid Test for Hydrophytic Vegetation
~ 1	2	= Total Co	over	2 - Dominance Test is >50%
Herb Stratum (Plot size:				3 - Prevalence Index is ≤3.0¹
1. Parex testuaceae	_5_	N	FAC	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Agrostis gigantea	75	LY	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. 5011dago Spp	3_	N		¹ Indicators of hydric soil and wetland hydrology must
4. POA pratensis	10	N	FALL	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10	-	1		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		-		Woody vines – All woody vines greater than 3.28 ft in
12				height.
121	93	= Total Co	ver	
Woody Vine Stratum (Plot size: 15')				
10/0				
1.77		-		Hydrophytic
2				Vegetation
3				Present? Yes No
4				_
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s				
	- 2			
Westation was investigated	1 1000	1	011	ag field, planted turf grasses present
orderen blancond	Trior	Ved	, ola c	og Ticia, planka
				turf arasses
				Dreeder
				Proces

Air Resure SHU

wet DP3

SOIL

Campling	Daint	

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the in	ndicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture		Remarks	
0-12"	1048 %	95	10 YP 46	5	1.	M	Fines			
					-					
(<u></u>			M 							
			2	-						*
	()		D) -			-				
		-		-	-					
	17									
-										
¹Type: C=Cc	poentration D=Den	letion PM	=Reduced Matrix, MS	S=Masked	Sand Gra		2l coation:	DIDoro	Lining, M=Mat	dy
Hydric Soil I		etion, Rivi	-Reduced Matrix, Mc	3-IVIASKEU	Sanu Gra	ali 15.			matic Hydric S	
Histosol			Polyvoluo Polov	v Curfoco /	C0) // DE	D D			(LRR K, L, ML	
	ipedon (A2)		Polyvalue Belov MLRA 149B)		30) (LKF	cr,			ox (A16) (LRR	
Black His			Thin Dark Surfa	21	RRR MI	RΔ 149R			or Peat (S3) (L	
	n Sulfide (A4)		Loamy Mucky N				3 (2 12)		(LRR K, L, M)	17 7 7
	Layers (A5)		Loamy Gleyed I		(LICITY)	-)			Surface (S8) (L	
	Below Dark Surface	(A11)	Depleted Matrix						(S9) (LRR K,	
	rk Surface (A12)	. (,	➤ Redox Dark Sur						lasses (F12) (I	
	ucky Mineral (S1)		Depleted Dark S)				ain Soils (F19)	
	leyed Matrix (S4)		Redox Depress		•		1 7		6) (MLRA 144A	7.0
	edox (S5)							rent Materi		
	Matrix (S6)								Surface (TF12	2)
	face (S7) (LRR R, M	ILRA 1491	3)					Explain in F		•
		ion and we	etland hydrology mus	t be preser	nt, unless	disturbed	or problematic.			
	ayer (if observed):	1 L					b			
Type:	one obser	ved								
Depth (incl	hes):						Hydric Soil F	resent?	Yes	No
Remarks:								225408/03/03		
rtomanto.										
.501	Shortle	1-10	Surage							
0.	1 31400113	nra	Surage	· /						
			0							
	1 17 17		A grant							
	1	9	e y w	77. 30		1 2				
	and Your	- K								
	V.S. 80 51 1									

Sitel

Air Base

1	RWI – Northcentral and Northeast Region
Project/Site: Mr Reserve SHE City/C	County: Mayor Fulls, Magar Sampling Date: 0/5/13
Applicant/Owner:	State: Ny Sampling Point: DP 4
Investigator(s): Briley, Tara Siewic 2 (USACE) Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Flat Local rel	ief (concave, convex, none): Nane Slope (%) Q - 2%
Subregion (LRR or MLRA): Lat:	Long: Datum:
Soil Map Unit Name: Odessa Sith clay 0-2%	Slape 5 NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? // Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _X No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	s (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odd	
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	- NOTA (CONTROL OF CONTROL OF CO
Algal Mat or Crust (B4) Recent Iron Reduction Iron Deposits (B5) Thin Muck Surface (C	생명이 가입하다 하다 하나 이번 생각이다. 그는 생각이 가입니다 하면 사람들이 되었다면 하다면 하는데 사람들이 되었다면 되었다.
Iron Deposits (B5) Thin Muck Surface (C Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	TAO Notital Tool (Do)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections) if available:
gaage, memoring non, contain process, pro-	inde inspectation, in available.
Parada	
Remarks: Upland next to two Small west	lands (West)
*	
	(a)

UPV

VEGETATION - Use scientific names of plants.

Sampling Point: 1994

Tree Stratum (Plot size: 30)	Absolute Dominant Indicator	Dominance Test worksheet:
1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		That Are OBL, FACW, or FAC:(A)
3		Total Number of Dominant Species Across All Strata: (B)
4		
F		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
0		To the second contract of the second section of the section
0		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
161	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
1		FAC species x 3 =
2		FACU species x4 =
3		UPL species x 5 =
4.		Column Totals: (A) (B)
5.		Prevalence Index = B/A =
6.		Hydrophytic Vegetation Indicators:
7	×	1 - Rapid Test for Hydrophytic Vegetation
1.		2 - Dominance Test is >50%
6'	= Total Cover	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 9	10 FACE NI	4 - Morphological Adaptations ¹ (Provide supporting
1. Carex Sugaria festucacea	SO SO WALL Y	data in Remarks or on a separate sheet)
2. Agrosas capallars	20 FALL AL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. CENTONY binegrass	FACU IV	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Soliday a Conadors 15	ZS PACU IV	be present, unless disturbed of problematic.
5. COM vetch	2 NI N	Definitions of Vegetation Strata:
6. Corars racemosa	S FAU N	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Auroshis Gigunten!	SO FACK Y	at breast height (DBH), regardless of height.
8		Sapling/shrub – Woody plants less than 3 in. DBH
9		and greater than or equal to 3.28 ft (1 m) tall.
10		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		Control (Control (Con
12.		Woody vines – All woody vines greater than 3.28 ft in height.
	147 = Total Cover	noight.
Woody Vine Stratum (Plot size: 15	1 Total Gover	
1		
		Hydrophytic
2		Vegetation X
3		Present? Yes No
4		Si
	= Total Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)	
	. I I pranted to	art grasses present
veg previously mou	eo a presince in	1
	187).	

SOIL

Sampling Point: DP4

Profile Desc	cription: (Describe	to the de	epth needed to docum	nent the	indicator	or confirm	n the absence	of indicat	tors.)	
Depth	Matrix		Redo	x Feature	<u>s</u>		2			
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	_Loc ² _	Texture	-	Remarks	
0-6	10 1/2 3/1	100					Me			
6-12	10 7F 3/1	95	10 7R 510	5	0	M	Fine			-/
	., ., .,		1 11 2/8				11/1/			
1.										
								-		
l										
		-	-			-		-		
		-								
¹Type: C=Cc	ncentration D=Deni	letion RN	/=Reduced Matrix, MS	=Masked	Sand Gra	ins	² I ocation	· PI =Pore	Lining, M=Mat	riy
Hydric Soil I		Ction, Tti	i-reduced matrix, me	-Washed	Odrid Ord	iiio.			matic Hydric	
Histosol			Polyvalue Below	Surface	(S8) (LRR	R.			(LRR K, L, ML	
	ipedon (A2)		MLRA 149B)		(00) (2111	1.33			lox (A16) (LRR	
Black His			Thin Dark Surface		RR R, ML	RA 149B)			or Peat (S3) (L	
	n Sulfide (A4)		Loamy Mucky M						(LRR K, L, M)	
Stratified	Layers (A5)		Loamy Gleyed N	Matrix (F2)	4. 2	Polyva	lue Below	Surface (S8) (L	RR K, L)
	Below Dark Surface	(A11)	Depleted Matrix						e (S9) (LRR K,	
	rk Surface (A12)		Redox Dark Sur						Masses (F12) (
	ucky Mineral (S1)		Depleted Dark S		7)				ain Soils (F19)	
	leyed Matrix (S4)		Redox Depressi	ons (F8)					6) (MLRA 144)	A, 145, 149B)
	edox (S5)							rent Mater		2)
	Matrix (S6) face (S7) (LRR R, M	I DA 140	R)					Explain in l	k Surface (TF1:	۷)
Dark Gui	iace (or) (ERR R, M	LIVA 143	6)				_ Other (Explain in	remarks)	9
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology must	be prese	nt, unless	disturbed	or problematic			
	ayer (if observed):		, 0,				1			
Type:			Nin deco	-10 0					\vee	
Depth (inc	hes):		INME DAISE	rvee			Hydric Soil	Present?	Yes	No
Remarks:			•		-		7.7 4			
Kemarks.										
										1
										ļ
										1
										1
										1
	¥7									
								54		
	33									
										1100-1100

SH1

upland DP 5

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: AV Plant SITE City/Co	ounty: NIAGOVA Sampling Date: 5 JUNE -
Applicant/Owner: BPG	State: NY Sampling Point: DP5
Failelancies la mas	n, Township, Range:
Landform (hillslope, terrace, etc.):Local relie	
/ .	Long: Datum:
Soil Map Unit Name: Odessa Sitty Clay 0-2% 56	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed	
Are Vegetation, Soil, or Hydrology naturally problemati	ic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Is the Sampled Area
Hydric Soil Present?	within a Wetland? YesNo/X
Wetland Hydrology Present? Yes (No) X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
old agricultural field	
010 00110101111111111	
Likely tillo	
	1
Old agricultural field Likely tiled previously morred	
HYDROLOGY	8 4
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves ((B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	FAC-Neutial Test (D5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes (No ×
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	us inspections), if available:
Remarks:	
Field lively tiled previously de	rained
1101 11) / [] / [
	w
*	
	ut.

Air Pesure Site

UPL DP 5
Sampling Point: DP5

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 100)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1			Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2			The same are section and the section above the section and the
3			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
6			
7			
1.		= Total Cover	
Cauling/Charle Objecture /District		- Total Cover	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	2	Y FAC	FAC species x 3 =
1. Cornus Valernosa			FACU species x 4 =
2			UPL species x 5 =
3			Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6,			Hydrophytic Vegetation Indicators:
7		****	1 - Rapid Test for Hydrophytic Vegetation
	1	= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size:)		10101 00001	3 - Prevalence Index is ≤3.0 ¹
1. Agrostis gigantea	15	Y FACE	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. TOYAKII UM OFFICIANALL	3	N FACU	∠ Problematic Hydrophytic Vegetation¹ (Explain)
3. SOLINAGO SPP.	4	N -	¹ Indicators of hydric soil and wetland hydrology must
4. CIVSIUM SPP	1	N -	be present, unless disturbed or problematic.
5. Fragaria Arginiana	7-	N FACU	Definitions of Vegetation Strata:
6. POA Pratensis	15	NI FACUL	
		NI	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7. VICCIA Craccai			, i
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			Herb – All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			Woody vines – All woody vines greater than 3.28 ft in
12	100		height.
	100	= Total Cover	
Woody Vine Stratum (Plot size:)			*
1.1/0			
2.			Hydrophytic
3.			Vegetation Present? (res) No
4			
		Total Cover	
Remarks: (Include photo numbers here or on a separate		- Total Covel	
Tremains. (moduse prote numbers here of on a separate	Silect.)		
veg previously morned	1 n/	anted har	Faraless
J Francisco	1	0. 50 104	1 110000

SOIL

All Pesone Site

WPV DP 5
Sampling Point: D05

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc²	
0-4" 108/2 3/2 100%	- Fines
4-7 1048 1/2 900 1048 10: C M	Fines
7-10 1042 /2 60 1048-18 40 CM	tines
	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149I)	Coast Prairie Redox (A16) (LRR K, L, R) B) 5 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) Depleted Below Dark Surface (A11) Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L) 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) Sandy Gleyed Matrix (S4) Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)	Red Parent Material (F21)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Very Shallow Dark Surface (TF12)
2	Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed	d or problematic.
Restrictive Layer (if observed): Type: **MONGO OBSERVE &	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
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<i>y</i>	¥
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual



Project/Site: Wetland X Applicant/Owner: NFARS Investigator: BT, EM, NR		Date: 6- County: 5 State:	Jingara
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	n)? Yes No Yes No	Community ID Transect ID: Plot ID:): Wetland Wetland
EGETATION		: **	
Dominant Plant Species Stratum Indicator 1. Agrostis alba H FACW 2. Glyceria sp. H OBL	Dominant Plant Soccies 9 10.	Stratum	Indicator

Percent of Dominant Species that are OBL FACW or FAC 4/7 = 57%.

(excluding FAC).

Florinds: Area is periodically mowed, but not yet this season. Carex tribuloides, C. vulpinoidea, and Glyceria sp. growing up through large patches of Vicia tetro sperma. Upland was mowed after delineation was

UPL

FACW

HYDROLOGY

4. Agropyron repens 5. Vicia tetrasperma

6. Carex cristatella

7. Carex Vuloinoidea

Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations: Depth of Surface Water: 72.0 (in.) Depth to Free Water in Pit: >2.0 (in.) Depth to Saturated Soit: >2.0 (in.)	Sediment Deposits X Drainage Patterns in Wetlands Secondary Indicators (2 or more required): X Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test 4:3 Other (Explain in Remarks)
	side) constructed southwest of wetland

and dump site southeast of wetland may be altering surface hydrology. Wetland appears to drain into ditch that flows to tributary of Cayuga Creek.

Map Unit Name (Series and Phase): Taxonomy (Subgroup):		Drainage Class: Field Observations Confirm Mapped Type? Yes No		
Profile Description: Depth (Inches). Horizon D'- 0.1' 0 0.1'- 0.9' A 0.9'- 2.0' B	Matrix Color (Minasi) Molss) N/A 10 YR 3/2 7.5 YR 4/2	Mottle Colors (Mussell Motst) N/A 7.5 YR 5/8 5 YR 5/8 2.5 YR 4/6	Mottle Abundance/ SizeAcontrast N/A 3'/, 10'/, 2'/r	Silty clay learn sandy clay learn Sandy clay learn
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low-	Regime Nione	Organic States on L Listed on L Listed on N	s nic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List talional Hydric Soils List nin in Remarks)	er in Sandy Solis
	ine in	a *	* *	*

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No (Circle)	1
Wetland Hydrology Present? Hydric Solls Present?	Yes No (Circle) No Yes No	Is this Sampling
	. —	

Point Within a Wetland? (Yes No

(Circle)

Remarks: Two small isolated wetlands approximately 100 yds northnorthwest of main Wetland X.

GPS File: NFARS - X - PZ (Soil core) Boundary GPS: NFARS Wet 2008

Approved by HQUSACE 3/92

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)



Project/Site: Wetland X Applicant/Owner: NFARS Investigator: BT, EM, NR	Date: b-20-08 County: Niagara State: Ny	
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	? Yes No Yes No Yes No	Community ID: Transect ID: Plot ID: Workland X Upland
VEGETATION		
Dominant Plant Species Stratum Indicator 1. Vicia tetrasperma H UPL 2. Agrestis alba H FACW 3. Festuce subra H FACW 4. Phleum pratence H FACU 5. 6. 7. 8. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC). Flormarks: Area is periodically mowed	8. 10. 11. 12. 13. 14. 15. 16. 16.	
YDROLOGY X Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs X Other No Recorded Data Available Field Observations: Depth of Surface Water: 71.9 (in.) Depth to Free Water in Pit: 71.9 (in.) Depth to Saturated Soil: 71.9 (in.)	Welland Hydrology Indicators Primary Indicators:	12 Inches n Wetlands r more required): anels in Upper 12 Inches les ata
Remarks:		

	4"		4
-		-	-
	•	м.	•
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Mep Unit Name (Series and Phase): Taxonomy (Subgroup):	Ode	.55 A.	Field	inage Class: Id Observations Itm Mapped Type? Yes No
Profile Description: Depth finches). Harkon 0'-0.2' 0 0.2'-1.0' A 1.0'-1.9+ B	Matrix Color (Marcaell Molss) N/A 10 VR 4/2 7.5 VR 4/3	Mottle Colors (Munael Moist) N/A 7.5 YR 5/8 7.5 YR 5/8 2.5 YR 4/6	Muttle Abundance/ Star/Contrast N/A 21/ 15 */ 5'/	Silty Clay learn Silty Clay Silty Clay
Hydric Soil Indicators:	Regime Nons	Organic St Listed on I	is nic Content in Surface Lay reaking in Sandy Solis .ocal Hydric Solis List lational Hydric Solis List lain in Remarks)	yer in Sandy Soils
Remarks:			*	

38/1974	ALIO	DETERMINATION
	ALBERT B	2.00- 2 3-8-CMB NAME AND GREAT

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Solls Present? Yes (No (Circle) Yes (No (Circle) Yes (No (Circle))	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks: GPS File: NFARS -X - P3 (Soil con	(2)
e e e e e e e e e e e e e e e e e e e	
	•

Approved by HQUSACE 3/92

SHE2

Wetland 1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: WILLIAMS PD	City/County: <u>Niagara Falls</u> Sampling Date: 23 APP
Applicant/Owner:	. V
Investigator(s): BOKUN/TON OFFICIAL	State: NY Sampling Point: DP I
Landform (hillslope, terrace, etc.): Velatively flat	Section, Township, Range:
Slope (9/):	Local relief (concave, convex, none):
Soil Man Unit Name: Odd SCA Sub ale and a	Long: Datum:
Are elimented to de la company and and a company and a com	Postages NWI classification: PAUGNING EMWG
of ve	ar? Yes No (15
Are Vegetation X, Soil X, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Voc.
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	If you and and the state of
Remarks: (Explain alternative procedures here or in a separate repor	t.)
Fill in wetland - bignificant	ly disturbed wetland
mallard nesting	Photo 1 GPS points 1-12 PP 1 & GPS point 12
HYDROLOGY	Pricers point 12
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained L	Surface Soil Cracks (B6)
Water-Stained L	242) - 10 2 57 - 11-
Saturation (A3) Marl Deposits (B	
Water Marks (B1) Hydrogen Sulfide	= 1) Coulon Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizos	
Presence of Red	pheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) luced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Red	uction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surfa	ce (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in	Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes X No Depth (inches):	D- 211
Wester Table D. 10	0-2
Value Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	100
(includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
	8
Remarks:	
	₩
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a a	*
4	*
98	

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WET 1

VEGETATION - Use scientific names of plants

Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
		Number of Dominant Species
		That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
		Species Across All Strata: (B)
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Rapid Test for Hydrophytic Vegetation
	= Total Cover	Dominance Test is >50%
	***	Prevalence Index is ≤3.0¹
30	Y OBL	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3	NI FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
15	Y FALLA	,
2	NI FANI	¹ Indicators of hydric soil and wetland hydrology must
<u></u>	IN THUL	be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
		at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless
7	V	of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
5/2		height.
100	= Total Cover	
	70	Hydrophytic
		Vegetation
	= Total Cover	Present? Yes No
	30 35 8	= Total Cover

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Sampling Point: DP |

Depth	Matrix	are de	pth needed to docum	x Features		or contiri	in the absence of inc	licators.)	
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type ¹	_Loc ²	Texture	Remarks	
0-12	1048 /2	90	104236	10%	C	m	Fines	Temans	_
-		-							
				_					_
					_				
									_
¹Type: C=Co	oncentration, D=Dep	letion, RM	I=Reduced Matrix, CS	=Covered	or Coate	d Sand G		PL=Pore Lining, M=Matrix.	_
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Dark Sur	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) ducky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) fface (S7) (LRR R, M	/ILRA 149		ce (S9) (LI lineral (F1) Matrix (F2) (F3) face (F6) Surface (F7 ons (F8)	RR R, MI) (LRR K	.RA 149E	Indicators for Pr 2 cm Muck (/ Coast Prairie 5 cm Mucky (/ Dark Surface Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent (/ Very Shallow Other (Explai	coblematic Hydric Soils ³ : A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, (S7) (LRR K, L) Flow Surface (S8) (LRR K, L) Frace (S9) (LRR K, L)	R) , R) 49B)
³ Indicators of	hydrophytic vegetat	ion and w	etland hydrology must	t be preser	nt, unless	disturbed	or problematic.		
Type:	.ayer (ii observed):								
Depth (inc	ches):						Hydric Soil Prese	nt? Yes No	
Remarks:	Fill - bi	stur	bed area	ev		ž)			
			25					4	
						¥	ŧ		

Site 2

SIRE Z
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region
Project/Site:
Applicant/Owner:State: NY Sampling Point: DP :
Section Township Pages
Landform (hillslope, terrace, etc.):
Slode (%): 4" Lat
Soil Map Unit Name: Odessa Sitty Clay; O 2 % Signes NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are vegeration Soil * or Usedestand to the state of the s
Are Vegetation Soil
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Wetland Hydrology Present?
Remarks: (Explain alternative procedures here or in a separate report.)
Photo 3 soils disturbed by fill
coll naint 12
GPS point 13
INDECLOOK
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Y Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
Aquatic Fauna (B13) Moss Trim Lines (B16)
Marl Deposits (B15) Dry-Season Water Table (C2)
— "Jarogon Guillac Gdol (C1) Craviish Burrows (C8)
Drift Denosits (B3) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crist (84) Stunted or Stressed Plants (D1)
Iron Denosits (R5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagen (P7) Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes NoX Depth (inches): Wetland Hydrology Present? Yes NoX
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
s of the protos, previous inspections), if available:
Remarks:
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VEGETATION - Use scientific names of plants.

			Sampling Point:
Tree Stratum (Plot size:)		Dominant Indicator	Dominance Test worksheet:
Agricultural control of the control	% Cover	Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC:(A)
2			, , , , , , , , , , , , , , , , , , ,
			Total Number of Dominant Species Across All Strata: (B)
3			Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
			(45)
6			Prevalence Index worksheet:
7		*	
177 85 V•1		= Total Cover	
		- Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)			FACW species x 2 =
1			FAC species x 3 =
			FACU species x 4 =
2			UPL species x 5 =
3			
4			Column Totals: (A) (B)
			Prevalence Index = B/A =
5			Trevelience index - B/A -
6			Hydrophytic Vegetation Indicators:
7			Rapid Test for Hydrophytic Vegetation
			Dominance Test is >50%
		= Total Cover	Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)			
1. Oxalis stricta	1	Λ1	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Mentha 8010			그 그는 그는 그는 것들이 모르게 하면 이번 사람들이 되는 것이 되는 것이 되어 하는 것이 되어 하는 것이 되었다. 이 사람들이 되었다.
			Problematic Hydrophytic Vegetation ¹ (Explain)
3. Arsium arvense	5_	M	
4. DIPSACUS GUIVESTICIS	40	Y UPV	¹ Indicators of hydric soil and wetland hydrology must
h	11	71	be present, unless disturbed or problematic.
	41.	<u>N</u>	Definitions of Vegetation Strata:
6. Artium Tappa	_ 3	<u>N</u>	
7. solina go canadensis	1	* 1	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
	7	<u>N</u>	at breast height (DBH), regardless of height.
	4	N	Sapling/shrub - Woody plants less than 3 in. DBH
9. MUK I (FOrb clumping plant	15	M ·	and greater than 3.28 ft (1 m) tall.
10. William Devenne	20	Y FACU	
	1/0_	Truo	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			of size, and woody plants less than 3.28 ft tall.
12			Woody vines - All woody vines greater than 3.28 ft in
	Onla	= Total Cover	height.
	-04	- Total Cover	1900 M
Woody Vine Stratum (Plot size:)			* ,
1			100
2			
	-	· · · · · · · · · · · · · · · · · · ·	
3			Hydrophytic
4			Vegetation
		= Total Cover	Present? Yes No
Pomorko: (Indude abete ausebase bases a		= Total Cover	<u> </u>
Remarks: (Include photo numbers here or on a separate	sneet.)	63	*
		*/,	
0			
			<u></u>
			# ⁷⁷

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Sampling Point: DP2

Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	
0-4 104P 3/ 98 101P 16 2 0 m mineral	
4+ REFUSAL	
	_
	2
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	-
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149E)
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 (S7) (LRR K, L)	333
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)	
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)	Β\
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1	
Sandy Redox (S5) Red Parent Material (TF2)	,
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	-
Type:	
Depth (inches): No No	1
Remarks:	
Tromano.	
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Site 2

Wetland 2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: WILLIAMS 20 City/	County: Nagara Falls Sampling Date: 23-APR-7
Applicant/Owner:	Sampling Date:
Investigator(s): Baker, Tavasiewicz Sect	State: NY Sampling Point: DR3
	ion, Township, Range:
Slope (%): 0-2-7 b Lat:	Local relief (concave, convex, none): _CONCAVC
	: Datum:
Soil Map Unit Name: COLOSA STAM Clargo - 270	Slipes NWI classification: Palustyine FORST
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	No
	npling point locations, transects, important features, etc.
\	Is the Sampled Area
Hydric Soil Present? Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
	wetland boundary
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	s (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide Od	or (C1) Crayfish Burrows (C8)
✓ Sediment Deposits (B2) Oxidized Rhizosphere	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reduction	I Iron (C4) Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren Sparsely Vegetated Concave Surface (B8)	
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	-2"
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
	* as
Remarks:	
algae present in standing	water in wetland
e e	and the second s
i.	(A)
	5:

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VEGETATION – Use scientific nam	nes of plants.
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Sampling Point: DP3

Tree Stratum (Plot size: 30)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Populus trimulaides	60 Y FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		7/
3		Total Number of Dominant Species Across All Strata: (B)
4		
5		That Are OBL, FACW, or FAC:(A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	60 = Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15		FACW species x 2 =
1. COrnus Foemina	15 FACW	FAC species x 3 =
2		FACU species x4 =
3		UPL species x 5 = Column Totals: (A) (B)
4		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		Rapid Test for Hydrophytic Vegetation
51.	75 = Total Cover	Dominance Test is >50% Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:	- W	Morphological Adaptations ¹ (Provide supporting
1. Agrostis capillaris	5 Y FAC	data in Remarks or on a separate sheet)
2 Phalaris anindinacaca	2 Y FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3		¹ Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6	·	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
78		at breast height (DBH), regardless of height.
8 9		Sapling/shrub – Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
11		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12	·	2.3
	= Total Cover	Woody vines All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 15	= Total Cover	
1. Viths 800	. 1	
2.		
3		Hydrophytic
4		Vegetation
•	= Total Cover	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)	
	<i>t</i> =	
		F)
64		,
Tild Control of the C		æ, ×
		*

Williams PD

WET 2

SOIL

Sampling Point:	DP3	
		۰

Profile Desc Depth	ription: (Describe Matrix	to the dep	th needed to docum			or confirm	m the absence	of indicato	rs.)	
(inches)	Color (moist)	%	Color (moist)	Feature:	Type ¹	_Loc ²	Texture		Remarks	
0-8	1042 3/2	99	101P 96			14-73				
8-12	10 Y = 3/2	95	7.5 YF %	5	C	M	miner a	l-Fine	5	
-			12 (a) 14 (a)							
		-								
		17			-					 '
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, CS=	Covered	or Coate	ed Sand G			Pore Lining, M	
Histosol Histic Ep Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	(A1) sipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) d Below Dark Surface irk Surface (A12) lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) fface (S7) (LRR R, I	MLRA 1491 tion and we	Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfa Depleted Dark Surfac Redox Depression B) etland hydrology must	e (S9) (L neral (F1 latrix (F2 (F3) ace (F6) urface (F ons (F8)	.RR R, M	LRA 149B	2 cm M Coast Coa	fluck (A10) (Prairie Redo flucky Peat o flu	6) (MLRA 1447 al (TF2) : Surface (TF1:	RA 149B) K, L, R) RR K, L, R) RR K, L) L) LRR K, L, R) (MLRA 149B) A, 145, 149B)
l l	around	eago		•						
									*)	
			, it				2			
									(2)	
2					22					

Site 2

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Williams PD City/0	County: Niagara Falls Sampling Date: 23 APR 2013
Applicant/Owner:	State: NY Sampling Point: 094
Fraker TAVAL- CONTRA	
	on, Township, Range:
1	lief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat.	Long: Datum:
Soil Map Unit Name: Odessa Silty clay 0-27	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	res No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	
	npling point locations, transects, important features, etc.
Hydrophytic Vogototics Present?	Is the Sampled Area
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Yes	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	100
Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
8011s disturbed	to at 1 will all a single
previously site was in a	g. (now planted of volium peranne)
regulation mowed in pre	vious growing scason
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	
Sediment Deposits (B2) Oxidized Rhizospher	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	d Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	B.H
Iron Deposits (B5) Thin Muck Surface (0	The state of the s
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	dn: 111/1
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes Vo Depth (inches):	Wetland Hydrology Present? Yes (No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Cac Ala	
615 20	
Ges 20 phon 5	

Andrew Company of the	2436 03731073403			
/EGETATIO	N – Use	scientific	names	of plants.

Sampling Point: \$4

Tree Stratum (Plot size:)	Absolute		t Indicator	Dominance Test worksheet:
1	% Cover	-		Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co		OBL species x1 =
Sapling/Shrub Stratum (Plot size:)		. /	r 1 -	FACW species x 2 =
1. Ocer rubium	45	4	MAC	FAC species x3=3
2				FACU species x4 = UPL species x5 =
3		-		Column Totals: (A) 24 (B)
4		-		
5				Prevalence Index = B/A = 4
6				Hydrophytic Vegetation Indicators:
7		1 12 121 -		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
		= Total Co	ver	3 - Prevalence Index is ≤3.0¹
1.Mfolium hyloridum	6.	Λ/	tarii	4 - Morphological Adaptations ¹ (Provide supporting
	1r.	11	FREU	data in Remarks or on a separate sheet)
3. SOlida 90 Canadensis		11	TAIL	Problematic Hydrophytic Vegetation ¹ (Explain)
4. LOLIUM pronne		7	FALL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Cirsium avense	W		Varia	Definitions of Vegetation Strata:
		14	1760	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12	91	= Total Co		height.
Woody Vine Stratum (Plot size:)		- Total Co	vei	
1.				* *
2				Hydrophytic
3				Vegetation Present? YesNo
4				
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			3
- bolium perenne		and	Ace	er rubnim (moned)
are dominant 8	pene)		
plants have 6	cen	11101	ved	(last growing scasion).

Sampling Point: SP4

Profile Description: (Describe to the de	oth needed to docum	nent the i	ndicator	or confirm	n the absence		g / O.I.L
Depth Matrix (inches) Color (moist) %	Color (moist)	x Features %	_Type ¹ _	1 002	Touture		- and an
0-2 10 yR3/200	COIOI (IIIOISI)		Type	LUC	Texture	Rem	arks
	1 22/2			-10	5. NO	-	
27210 gR 1/2 95	10 42518	5		M	ine	0	(
						-	
				•			
	Control of the Control of the Contr		-			: 	
						Y	
	21						
				·	185		
			-			·	
	•						
1-							
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators:	=Reduced Matrix, MS	S=Masked	Sand Gra	ins.		: PL=Pore Lining, M for Problematic Hy	
Histosol (A1)	Polyvalue Below	v Surface	(S8) (LRR	R		fluck (A10) (LRR K,	
Histic Epipedon (A2)	MLRA 149B)		(00) (EI	11,		Prairie Redox (A16)	
Black Histic (A3)	Thin Dark Surfa) 5 cm N	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Mucky N			L)		Surface (S7) (LRR K,	
Stratified Layers (A5) Depleted Below Dark Surface (A11)	Loamy Gleyed N Depleted Matrix		N			llue Below Surface (Sark Surface (S9) (LF	
Thick Dark Surface (A12)	X Redox Dark Sur					anganese Masses (F	
Sandy Mucky Mineral (S1)	Depleted Dark S		7)		Piedm	ont Floodplain Soils	(F19) (MLRA 149B)
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Redox Depressi	ions (F8)				Spodic (TA6) (MLRA	A 144A, 145, 149B)
Stripped Matrix (S6)						arent Material (F21) hallow Dark Surface	(TE12)
Dark Surface (S7) (LRR R, MLRA 149)	В)					(Explain in Remarks)	
³ Indicators of hydrophytic vegetation and we	atland hydrology must	t ha proce	nt unloca	disturbed	or problemetic		, and the second
Restrictive Layer (if observed):	stiana frydrology mas	t be prese	rit, uriless	disturbed	problematic		
Type:	Non all	1115	1115	1		`	
Depth (inches):	1/1/1/2 (1650	YVC!		Hydric Soil	Present? Yes	X No
Remarks:							
						*	<u>.</u>
*						149	
							:
							ia i

SHe 2

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

The same of the sa	To the Mortheast Region
Project/Site: Williams Pro	City/County: Nogara Falls Sampling Date: 25-APP. 7
Applicant/Owner:	
Investigator(s): BAKEN/TAVASWWICT/SIA labrino	State: NY Sampling Point: DP5
Landform (hillstone torress at). KI Abi Wild Flat	Section, Township, Range:
Carolio III (Illisiope, terrace, etc.): 1-c1/(1)/(1/) +1/(1-)	Local relief (concave, convex, none): PUVVOWS
Slope (%): Lat:	Long: Datum:
Soil Map Unit Name: Occlassia STIF loom 0-2	% Steps NWI classification: PAIUSTVING ANN
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No No	Is the Sampled Area within a Wetland? Yes No
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Remarks: (Explain alternative procedures here or in a separate repo	If yes, optional Wetland Site ID:
DP 8 15 P	site disturbed by previous
	11 10.087 010 - 611
phone	2 1451
WET BOUNdary 15-7	19 UPL BOUNDARY 80-88
HYDROLOGY WETLAND IS a mosaic	With Eurovis
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
∑ Surface Water (A1) Water-Stained	
High Water Table (A2) Aquatic Fauna	
★ Saturation (A3)	
Water Marks (B1) Hydrogen Sulfice	
Sediment Deposits (B2) Oxidized Rhizo	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	educed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Re	duction in Tilled Soils (C6)
Iron Deposits (B5) Thin Muck Surf	
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches)	: // Wetland Hydrology Present? Yes // No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
•2	50 7 YO SANDAY GA 7 100 SANDAY AND
Remarks:	- Y
standing water in furror	NS
COMMation to	
saturation to surface in	hummock 5
	:

Williams RD

VEGETATION – Use scientific names of plants.

Sampling Point: DPS

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1. Fraxinus punsylvanica	5_	Y FALLOV	That Are OBL, FACW, or FAC: (A)
2. Ulmus americana	8	Y FALL	Total Number of Dominant
3. cratalgus spp-	2	Ν	Species Across All Strata: (B)
			Barrant of Daminant Species
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5			
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	19	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		ű	FACW species x 2 =
1. Comus alba	10	Y FACW	FAC species x 3 =
2. ACCV MUNICIPALIEN	17	V FAC	FACU species x 4 =
		1 110	UPL species x 5 =
3			Column Totals: (A) (B)
4			
5.			Prevalence Index = B/A =
6.			Hydrophytic Vegetation Indicators:
			Rapid Test for Hydrophytic Vegetation
7	216		Dominance Test is >50%
<i>L</i> 1	1	_ = Total Cover	Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5			Morphological Adaptations ¹ (Provide supporting
1. Juneus tenuis	4	Y FAC	data in Remarks or on a separate sheet)
2. CAYEX SDD.	3	_ <u>Y</u>	Problematic Hydrophytic Vegetation¹ (Explain)
3. DOLIUM DURINNE	5	Y FALL	
4. AANOSTIS CAPILLAVIS	3	Y FAL	Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub – Woody plants less than 3 in. DBH
9			and greater than 3.28 ft (1 m) tall.
			Hart All harbassaus (non woods) plants regardless
10			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			- 10 325 - Valora Lia di Walin 20 87 10 890 Marino Marino
12			Woody vines – All woody vines greater than 3.28 ft in height.
	15	_ = Total Cover	, noight
Woody Vine Stratum (Plot size: 15)			
1. With's 800-	2	Y	<u>6</u>
2			
2			-
3.			Hydrophytic Vegetation
4			Present? Yes No
	1	_ = Total Cover	
Remarks: (Include photo numbers here or on a separat	e sheet.)		
unkarass spe	uelle	owgreen_	not flowering-tury grase
INNY WAGG GOD	1 - 6/11	1. Arish - ni	OF- FLOWANING - HAVE BYOLD
Mar dines ships	DIVI	- Jimin In	7 100 7 100 3
LINE CAYEX SON	2 - UPI	low arec.	not flowering -turf grass of flowering -turf grass - not flowering
J. J	101	1	
			#
		(9)	*

SOIL

Williams PD

		-0	
Sampling	Point:	Dr	5

Profile Desc	cription: (Describe	to the dep	oth needed to docum	ent the in	ndicator	or confirn	n the absence of indicators.)
Depth	Matrix			(Features	- 1		
(inches)	Color (moist)	%_	Color (moist)	%_	Type ¹	Loc ²	Texture Remarks
0-11	1091272	-80_	10 YP 38	10		IVI	minural
-							
-	·						
	305.						
							•
							A-77-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-
					3		
					470		
	7						
¹ Type: C=C	oncentration, D=De	pletion, RM	1=Reduced Matrix, CS	=Covered	or Coate	ed Sand G	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil							Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Belov	v Surface	(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Surfa				
100 PM 10	en Sulfide (A4) d Layers (A5)		Loamy Mucky N Loamy Gleyed I			(, L)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A11)	Depleted Matrix		,		Thin Dark Surface (S9) (LRR K, L)
Street Contract Contr	ark Surface (A12)	,	Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R)
(C	Mucky Mineral (S1)		Depleted Dark \$	Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)
and the state of t	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
The second secon	Redox (S5)						Red Parent Material (TF2)
	d Matrix (S6)						Very Shallow Dark Surface (TF12)
Dark Si	urface (S7) (LRR R,	MLKA 148	3B)				Other (Explain in Remarks)
3Indicators	of hydrophytic veget	ation and v	vetland hydrology mus	t be prese	ent. unles	s disturbed	d or problematic.
	Layer (if observed		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Type:							340 860
Depth (ir	nches):	721					Hydric Soil Present? Yes No
Remarks:							
rtomanto							
			churched				
	50	115 d	listurbed				
	50		mer ago l	180			
		FUI	www ag		210		
		TAI	VVAW(D)	REEN	14		
		PU	1101.2				
	soil conti	ain Fi	11				
-	SOII com	airs I I	1.				
						*	
							5
							÷

Site 2

Wetland 3

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

N.W.	A Column Northeentral and Northeast Region
Project/Site: WIIIIAMS PD	City/County: NIGGARA FAILS Sampling Date: 23APP 2013 State: NY Sampling Point: DP 6
Applicant/Owner:	State: NY Sampling Point: DP6
Investigator(s): DAYLV/TAVASIUNICE	Section Township Range:
Landform (hillslope, terrace, etc.): Pelatively Flat	Local relief (concerve convey convey)
	Long: Datum:
Are climatic / hydrologic conditions on the site to micel for this time.	NWI classification: PAIUSTING SCIUTSNIU
Are Vegetation	
Are Vegetation, Soil, or Hydrology significantly	p. 66 No
Are Vegetation, Soil, or Hydrology naturally pre-	, parameter in recination,
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
11.11.0.11	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes X No No No	
Remarks: (Explain alternative procedures here or in a separate repo	If yes, optional Wetland Site ID:
rill and t	
Fill present	
*	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna Aquatic Fauna	
Saturation (A3) Marl Deposits (
Water Marks (B1) Hydrogen Sulfic	
	crayfish Burrows (C8) Spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
D.77 D	duced Iron (C4) Stunted or Stressed Plants (D1)
	duction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surfa	
Inundation Visible on Aerial Imagery (B7) Other (Explain i	in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches) Water Table Present? Yes No Depth (inches)	
Too Deptir (inches)	
(includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
SH €	
Remarks:	
about and bac anclass with	MV.
adjacent area has surface wa	
O .	
	*
	±

Williams PO

VEGETATION - Use scientific names of plants.

Sampling Point: DP 6

20'	Absolute	Dominant Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover	Species? Status	Number of Dominant Species		
1. ACEV VUDUUM	4	T FAC	That Are OBL, FACW, or FAC:(A)		
	1	VITALIA	matrie obt., raow, or rao.		
2. UMUS americana		1 PACVV	Total Number of Dominant		
3			Species Across All Strata: (B)		
9.			Openios / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 / 10/0005 /		
4	_50	<u> </u>	Percent of Dominant Species		
			That Are OBL, FACW, or FAC: (A/B)		
5					
6			2 1 1 1 1 1 1 1 1 1		
			Prevalence Index worksheet:		
7			Total % Cover of: Multiply by:		
**	2	= Total Cover	OBL species x 1 =		
161.		- Total Cover			
Sapling/Shrub Stratum (Plot size: 15)			FACW species x 2 =		
	65	Y CAM	FAC species x 3 =		
1. comus formina		1740	The state of the s		
2			FACU species x 4 =		
			UPL species x 5 =		
3			Column Totals: (A) (B)		
Anna			(A)(D)		
4			Description of Index = B/A =		
5			Prevalence Index = B/A =		
			Hydrophytic Vogotation Indicators:		
6			Hydrophytic Vegetation Indicators:		
7.		7	Rapid Test for Hydrophytic Vegetation		
· ·	65		Dominance Test is >50%		
	45	= Total Cover			
Herb Stratum, (Plot size:			Prevalence Index is ≤3.0¹		
1. Eumania graminifolia	5	Y FAC	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1. 17 Mylarine of difference ite					
2			Problematic Hydrophytic Vegetation ¹ (Explain)		
3			¹ Indicators of hydric soil and wetland hydrology must		
4			be present, unless disturbed or problematic.		
5			Definitions of Vegetation Strata:		
6			The second secon		
0			Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
7			at breast height (DBH), regardless of height.		
8			Sapling/shrub – Woody plants less than 3 in. DBH		
9			and greater than 3.28 ft (1 m) tall.		
1035					
10		-	Herb – All herbaceous (non-woody) plants, regardless		
11			of size, and woody plants less than 3.28 ft tall.		
			Woody vines - All woody vines greater than 3.28 ft in		
12					
	5	= Total Cover	height.		
201		_ 10141 00101	19		
Woody Vine Stratum (Plot size: 30)					
withs spp	3				
1. VIII //					
2		<u> </u>			
3			Hydrophytic		
4			Vegetation		
	3		Present? Yes No No		
5	2_	_ = Total Cover	94 <u>6</u>		
Remarks: (Include photo numbers here or on a separat	e sheet.)				
Tremarks. (moldde priote namedia nere er er a deparat					
(E)					
3					
			76		

SOIL

Williams PD

WET 3

Sampling Point DP6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							dicators.)	
Depth	Matrix	-		x Features	1 . 2	2.6	_	1
(inches)	Color (moist)	<u>%</u>	Color (moist)		pe ¹ Loc ²		Remarks	
0-0	10xx m	100				Fines_		
6-	10 YP 4/2	<u> 80 </u>	10 YP 5/90	20		Fines		
•			•			· · · · · · · · · · · · · · · · · · ·	3.5 (8.	
			,					
			·					
			60					
			2					
			-			·		
1								
	Concentration, D=De Indicators:	pletion, RN	1=Reduced Matrix, C	S=Covered or 0	Coated Sand G		: PL=Pore Lining, M Problematic Hydric S	
Histoso			Polyvalue Belo	w Surface (S8)	(I PP P		(A10) (LRR K, L, ML	
The second secon	Epipedon (A2)		MLRA 149B		(Little)		e Redox (A16) (LRR	
(Histic (A3)		Thin Dark Surf	ace (S9) (LRR	R, MLRA 149B		Peat or Peat (S3) (L	
	en Sulfide (A4)		Loamy Mucky		RR K, L)		e (S7) (LRR K, L)	
	ed Layers (A5)	oo (A11)	Loamy Gleyed Depleted Matri				elow Surface (S8) (L	
	ed Below Dark Surfa Dark Surface (A12)	ce (ATT)	Redox Dark Su	0.53			surface (S9) (LRR K, nese Masses (F12) (
	Mucky Mineral (S1)		Depleted Dark				loodplain Soils (F19)	
	Gleyed Matrix (S4)		Redox Depres				ic (TA6) (MLRA 144	
Sandy	Redox (S5)						Material (TF2)	
	ed Matrix (S6)	9					w Dark Surface (TF1	2)
Dark S	urface (S7) (LRR R,	MLRA 149	9B)			Other (Expl	ain in Remarks)	
3Indicators	of hydrophytic yeaet	ation and v	vetland hydrology mu	st be present. u	ınless disturbed	d or problematic.		
	Layer (if observed					1		
Type: _			-				233.7	1
Depth (i	nches):					Hydric Soil Pres	ent? Yes 💹	No
Remarks:	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11					7.0		
	·		- 1					
Ī	ill mixed	Inti	2 8011				118	
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1								

SH2

GPS point 67 and 68
prainage the UPLAND

	RWI - Northcentral and Northeast Region				
Project/Site: WIIIAM6 PD City/	County: MANA FAILS Sampling Date: 24 APR.				
Applicant/Owner:	State: N Sampling Point: DP7				
Investigator(s): Backer, Taraser Wicz sec	tion, Township, Range:				
Landform (hillslope, terrace, etc.): SIOPC Local re					
Subregion (LRR or MLRA): Lat:					
Soil Map Unit Name: Odes Sa Sitt laam	NWI classification: N / A				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrology significantly distu					
Are Vegetation, Soil, or Hydrology naturally problen	THE PROPERTY OF THE PROPERTY O				
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? No No No No No No No No No N	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
photo 1443 DPG is located in a d	isturbed over containing fill				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leav	es (B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Oc					
	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduce	님이 있는 이 사람들이 있는 요요요요				
[20] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	on in Tilled Soils (C6) Geomorphic Position (D2)				
Sparsely Vegetated Concave Surface (B8)	marks) Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observations:	1A0-Neutral Test (D3)				
Surface Water Present? Yes No Depth (inches):					
Water Table Present? Yes/ No Depth (inches):					
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:				
에 2010 2010년에 무슨 의 한 2010	*				
Remarks:					
STANDING WATER. 51 FRZ	on PIT				
Phon: GDS POINT 50 51-66 GES COINTS	pecent precipitation				
51- (06 GRS DOINTS	5				
J1 007	1				

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30') 1. ACCV PUDPUM 2. LOYNUS FORMINA 3	10	Species?	FALW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (A)
4				Percent of Dominant Species 100 (A/B) That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:) 1. COYNUS FOEMINA 2. LONICEVA TATANCA 3. COVNUS ALBA 4	15 5 10	Y N	FACU FACU FACW	FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
5				Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
1. RANUNCIA/US F. CAVIA 2				4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10 11 12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:) 1. 1.	161	= Total Co	ver	Hydrophytic Vegetation Present? YesNo
Remarks: (Include photo numbers here or on a separate	sheet.)		,	

Profile Desc	cription: (Describe	to the de	pth needed to docun	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redo:	x Features %	_Type ¹ _	Loc ²	Texture	Remarks
0-6"	10 42 4/2	95	16 MR 5/6	- 5		M	File	Remarks
	10-11-112		10 10 10				111/4	
	***************************************	-	·					
					-			(
						> <u></u> -		
-								
					, , , , , , , , , , , , , , , , , , , 	-		
-			:==	-				
	***	-						
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils ³ :
Histosol	oipedon (A2)		Polyvalue Below MLRA 149B)		(S8) (LRI	RR,		fluck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa		RR R, MI	RA 149B)		flucky Peat or Peat (S3) (LRR K, L, R)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en Sulfide (A4)		Loamy Mucky M			, L)		urface (S7) (LRR K, L, M)
	d Layers (A5) d Below Dark Surfac	e (A11)	Loamy Gleyed Matrix					lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Redox Dark Sur	face (F6)				anganese Masses (F12) (LRR K, L, R)
	flucky Mineral (S1)		Depleted Dark S		7)			ont Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4) Redox (S5)		Redox Depressi	ons (F8)				Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21)
10.00	Matrix (S6)							hallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, I	/ILRA 149	B)					Explain in Remarks)
³ Indicators of	f hydrophytic vegetat	tion and w	etland hydrology must	t be preser	nt, unless	disturbed	or problematic	
	_ayer (if observed):				4			,
Type:			None ob	COMP	0			1
Depth (inc	ches):		JOINE DO	30,00			Hydric Soil	Present? Yes No
Remarks:					_			
1.	CALA ALL		STATE CI	FAR	40)	MAI	NING	
U V	FIVE PIU	0 -	3000 01	VV. P)	1/4	, , -,	
	*							
								45
								6

Site 2

Upland

	RM – Northcentral and Northeast Region
Project/Site: WIIIams PD City/C	County: NIGGARA FAILS Sampling Date: 25 APR 2013
Applicant/Owner:	State: NY Sampling Point: DP8
Investigator(s): BAKW/TOVASWWICK/SCALABNIM Section	ion, Township, Range:
Landform (hillslope, terrace, etc.): Relabully Flat Local rel	lief (concave, convex, none): F1A+ Slope (%):O
21	Long: Datum:
Soil Map Unit Name: Canandaignes silt clay	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are vegetation Soil , or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:
DP 10 at GPS point 90 veg regularly mowed	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	
	Dry-Season Water Table (C2)
—	or (C1) Crayfish Burrows (C8) es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reductio	THE STATE OF THE
Iron Deposits (B5) Thin Muck Surface (C	STANDARD OF THE STANDARD STAND
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	O V
(includes capillary fringe)	Wetland Hydrology Present? YesNo
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
DP is near drainage tile	,

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:) 1		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata: (B)
4 5 6	(1)		Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
7			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:) 1 2			FACW species x 2 = FAC species x 3 = FACU species x 4 =
3 4			UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		= Total Cover	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
1. Agrostic capillaris 2. Lolium perenne 3. Unk forp / Site 1)	60	Y FACU	data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
4. Acer rubrum 5. Taraxicum Officinale	3	N FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata:
6	11 		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8	-		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of
1112			size, and woody plants less than 3.28 ft tall. Woody vines — All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:)	107	= Total Cover	
2			Hydrophytic Vegetation Present? YesNo
4		= Total Cover	
remarks. (include photo numbers here of off a separate	sneet.)		
			ę

ML

SOIL

Williams PD

Profile Desc	ription: (Describe t	o the depth	needed to docu	ment the i	ndicator o	or confirm	the absence of	of indica	ators.)	
Depth (inches)	Matrix		Redo	ox Features	<u> </u>	. 2				
(inches)	Color (moist)	<u>%</u> -	Color (moist)		Type ¹	Loc	Texture	1	Remarks	
0 17	1011 91V	100_			- Contraction of the Contraction	A AND DESCRIPTION OF THE PARTY	miner	al	Fines	
				7	8 8					
				-				CONT.		
-	Malata y s		772							
				-						
,										
1 1000000000000000000000000000000000000					-					
-										
				-						
¹Type: C=Co	ncentration, D=Deple	etion, RM=R	educed Matrix, M	S=Masked	Sand Gra	ins.	² Location:	PL=Por	e Lining, M=Mat	rix.
Hydric Soil I	ndicators:						Indicators for	or Prob	lematic Hydric	Soils ³ :
Histosol		_	_ Polyvalue Belo		(S8) (LRR	R,) (LRR K, L, ML	
Histic Ep Black His	ipedon (A2)		MLRA 149B Thin Dark Surfa	FOR THE RESERVE TO A STREET WAS AND ADDRESS.	DD D MI	DA 440D)			edox (A16) (LRR	
533105	n Sulfide (A4)	_	_ Loamy Mucky						at or Peat (S3) (I 7) (LRR K, L, M	
Stratified	Layers (A5)		_ Loamy Gleyed						v Surface (S8) (L	
	Below Dark Surface	(A11) _	_ Depleted Matri						ce (S9) (LRR K,	
	rk Surface (A12) ucky Mineral (S1)	-	Redox Dark SuDepleted Dark		7)				Masses (F12) (
	leyed Matrix (S4)	-	Redox Depress		<i>(</i>)				plain Soils (F19) A6) (MLRA 144	
	edox (S5)			()					erial (F21)	7, 140, 1405)
	Matrix (S6)						Very Sh	allow Da	ark Surface (TF1	2)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other (E	xplain ir	n Remarks)	
3Indicators of	hydrophytic vegetation	on and wetla	and hydrology mus	st be prese	nt, unless	disturbed	or problematic.			
	ayer (if observed):									
Type:										\ \ \
Depth (inc	hes):			*			Hydric Soil P	resent?	? Yes	No X
Remarks:										
l Fi	11 mixed	into	soil							
1 '	1. ////	,	8011							
	72									
										0.000 11110000000

SHE 2

Upland

WETLAND DETERMINATION DATA FORM – No	orthcentral and Northeast Region
Project/Site: Williams RD City/County: 1	NIGGARA FAILS Sampling Date: 24 APR 2013 State: NY Sampling Point: DP 9
Applicant/Owner:	State: NY Sampling Point: DP 9
Investigator(s): Paker Tavas Leviles Section, Towns	ship Range:
Landform (hillslope, terrace, etc.): YClatrocly Flat Local relief (conca	
Soil Map Unit Name: Conandariona Silt loan	NWI classification: NWI
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	and the second s
Are Vegetation, Soil, or Hydrology naturally problematic?	Are "Normal Circumstances" present? Yes No
SUMMADY OF FINDINGS A44-1-14	Material Control (Control Control Control Control Control Control Control Control Control Control (Control Control Con
SUMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present?	ampled Area Wetland? YesNo otional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
GPS bata point 69	veatation mowed
photo iphone 1444	soil contains fill
HYDROLOGY	*
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Livin	Crayfish Burrows (C8)
	27 (1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:	
<u>.</u>	
·*	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)		Dominant Inc Species? S		Dominance Test worksheet:
1		Control of the Contro		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FAOW, OF FAO. (AB)
6				Prevalence Index worksheet:
7		= Total Cover		
Sapling/Shrub Stratum (Plot size: 15		= Total Cover		FACW species
1 ACEN VIALUM (FICE SIZE. 15	W	F	Ar,	FAC species x3 =
1. ACEN KUDKUM 2. COVNUS FOEMINA	W	—— E	4rw	FACU species x4=
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3
6				Hydrophytic Vegetation Indicators:
7		<u> </u>		1 - Rapid Test for Hydrophytic Vegetation
-1		= Total Cover	r-Amerika	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5				3 - Prevalence Index is ≤3.0¹ / 4 - Morphological Adaptations¹ (Provide supporting
1. Lalium perenne	100	E	ACU	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12		= Total Cover	7	height.
Woody Vine Stratum (Plot size: 15)	1/	- Total Cover		
1				
2.				Hydrophytic
3.				Vegetation Present? YesNo
4				
		= Total Cover	(
Remarks: (Include photo numbers here or on a separate	sheet.)			
	- 1			
vegetation mon	rd			
007		aC -11	WH	1 arass
consists prima	My	of pla	W 17 W	0002
	1	•		

Profile Description: (Describe to the d	epth needed to docu	ment the	indicator	or confirm	the absence of ir	ndicators.)
Depth Matrix	Redo			Service Antitrophy Sector ● 1		
(inches) Color (moist) %	Color (moist)	%	_Type ¹	_Loc ² _	Texture	Remarks
0-12 LOYP 1/2						
17-16 104 8 3/2 95	104P5/8	5	-			
F 10 10 17 11 11						
	104R 3/2	2				
		-	-			
			-			
						
					•	
¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil Indicators:	7.2)					Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Belov	w Surface	(S8) (LRF	R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B))				ie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky N			L)		ce (S7) (LRR K, L, M)
Stratified Layers (A5)	Loamy Gleyed)			Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matrix					Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	Redox Dark Su					nese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark		7)			Ioodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Depress	ions (F8)				lic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5) Stripped Matrix (S6)						Material (F21)
Dark Surface (S7) (LRR R, MLRA 14)	OP\					w Dark Surface (TF12)
Bank Bank Bank (67) (Erick II, METOR 14	36)				Other (Expl	ain in Remarks)
³ Indicators of hydrophytic vegetation and v	vetland hydrology mus	t be prese	ent unless	disturbed	or problematic	
Restrictive Layer (if observed):	, , , , , , , , , , , , , , , , , , , ,	t a o proce	Tit, arrioto	diotarboa	Т	
Type:						
Depth (inches):	-				II. dai: 0-11 Dai:	
					Hydric Soil Pres	sent? Yes No
Remarks:						
						i i
*.:						
*						
24						

SHE 2 WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: DIAGATA Sampling Date: 2 Applicant/Owner: Sampling Point: L TOYASYUNDY / SCALADYING Section, Township, Range:_ Investigator(s): DOVCV Landform (hillslope, terrace, etc.): Relative Flot Local relief (concave, convex, none): DUNCS Subregion (LRR or MLRA): ___ Soil Map Unit Name: Canandaigha git NWI classification: Pal USIV Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ (If no, explain in Remarks.) ___, Soil _____, or Hydrology ___ __ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? Wetland Hydrology Present? If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) DP9 is GPS point 89

HYDROLOGY	4
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) X Sediment Deposits (B2) Oxidized Rhizospheres on Living Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solution (C7) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) X Saturation Visible on Aerial Imagery (C9) X Stunted or Stressed Plants (D1)
Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Observations: Yes No Depth (inches): Yes No Depth (inches): Observations: Yes No Depth (inches): Yes No Depth (inches): Observations: Yes No Depth (inches): Yes No	Wetland Hydrology Present? Yes No
Remarks:	

VEGETATION - Use scientific names of plants.

- 20'	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover Species? Status	Number of Dominant Species
1. Ulmus americana	60 Y FACIN	That Are OBL, FACW, or FAC: (A)
2. QUETCUS palustris	18 Y FACI	y arrangement and the second s
2		Total Number of Dominant Species Across All Strata: (B)
NO.		Control of the Contro
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	18 = Total Cover	
15'	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15)		FACW species x2 =
1		FAC species x3 =
2		FACU species x 4 =
3		UPL species x 5 =
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Column Totals: (A) (B)
4		Davidson Information
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
5'	= Total Cover	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5	2 Y OBL	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Glyceria striata	3 Y OBL	Problematic Hydrophytic Vegetation¹ (Explain)
all in a second		Problematic Hydrophytic Vegetation (Explain)
3. FUMEX Crispus		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		Definitions of Vegetation Strata:
5		Deminions of vegetation strata.
6		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		at breast height (DBH), regardless of height.
8		Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than or equal to 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless of
10		size, and woody plants less than 3.28 ft tall.
11	· — · — · — · — · — · — · — · — · · — ·	Washing Allowship and the 2000
12		Woody vines – All woody vines greater than 3.28 ft in height.
	5 = Total Cover	
Woody Vine Stratum (Plot size: 15)		
1.VHIS SPP	1	
1.1/110 3/1		Hodes shots
2		Hydrophytic Vegetation
3		Present? Yes No
4.		12
	= Total Cover	
Remarks: (Include photo numbers here or on a separate		
Tremains. (include proto numbers here of on a separate	stieet.)	
150		

SOIL

WET 45
Sampling Point: DP/0

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			x Features	3			a permitti and resince such activation. In the second sec
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ² _	Texture	Remarks
0-9	104221	95	1042 3/8	5				
9-19	117/23/1	23	104F 78	17				× ×
		1//	1011/0					
							*	100
					-	-		
			·	-				
					-			
	-							
					V			
-								
¹Type: C=C	oncentration, D=Dep	letion RM	=Reduced Matrix MS	S=Macked	Sand Gra	ine	2l coation:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	iction, raw	-reduced Matrix, Mc	3-IVIASKEU	Sand Gra	11115.	Indicators f	for Problematic Hydric Soils ³ :
Histoso			Polyvalue Belov	v Surface	(S8) (I PE	р		uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		(30) (LINI	ı,		Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa		RR R. ML	RA 149B)		ucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky N					urface (S7) (LRR K, L, M)
Stratifie	d Layers (A5)		Loamy Gleyed					ue Below Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matrix					rk Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su				Iron-Ma	nganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark		7)			nt Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							rent Material (F21)
	Matrix (S6)	# D 4 4401						nallow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, I	ILRA 1491	3)				Other (E	Explain in Remarks)
3Indicators o	f hydrophytic vegetat	ion and we	atland hydrology mus	t he prese	nt unloce	disturbed	or problematic	
Restrictive	Layer (if observed):	dorr and we	stiana nyarology mas	t be prese	nt, uniess	uistuibeu	I problematic.	
Type:	Layer (ii observeu).							
	ahaa):							
Depth (in	cries)			- 11			Hydric Soil F	Present? YesX No
Remarks:								
								-
	*5							
	,							

Site 3

Wetland 1 - Upland Paint

WEIEARD DETERMINATION DATA FORM	- North central and Northeast Region
Project/Site: TUSCOSONA WOST City/Cour	nty: Niagara Fulls Niagara 6 . Sampling Date: 7-May 201
Applicant/Owner:	State: NV Sampling Point: DP
Investigator(s): BAKER, TARASIEWICZ USACK Section,	Township Banga:
Landform (hillslope, terrace, etc.): PLAVO Local relief (
Subregion (LRR or MLRA): Lat:	Long: Datum:
Soil Map Unit Name: adessa Sith day 0-210 Stopes	NWI classification: Nune
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed	? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	? No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampli	ing point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is	the Sampled Area
Hydric Soil Present? Yes No wi	ithin a Wetland? Yes No
	yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Veg disturbed via ag. uses but has occure.	discharit represent normal
Albrida Start C	9 1
en count stances,	22
HYDROLOGY	5
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B)	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres or	
Drift Deposits (B3) Presence of Reduced Iron	22.30 The 1.00 Lead - 1
Algal Mat or Crust (B4) Recent Iron Reduction in This Must Surface (G7)	
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	Shallow Aquitard (D3) s) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoY Depth (inches):	
Saturation Present? Yes NoY Depth (inches):	Wetland Hydrology Present? Yes(No)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections) if available:
Describe Necorded Data (Stream gauge, monitoring well, dental priotos, previous	s inspections), ii available.
Remarks:	
6.11 0 10 11 1	
Field may be filed	
()	1
, and the second	
	*

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:) 1		Dominant Ir Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6 7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)		= Total Cover		OBL species x 1 = FACW species x 2 =
1			1	FAC species x 3 = FACU species x 4 = UPL species x 5 =
3 4				Column Totals: (A) (B)
5				Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
7		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:) 1(Of \(\cappa\)	_51.	<u> </u>	MI	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2 3				Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 5				Definitions of Vegetation Strata:
6 7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of
11			- 1	size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in
12		Total Cover		height.
Woody Vine Stratum (Plot size:) 1.				
2				Hydrophytic Vegetation Present? Yes No
4		Total Cover		
Remarks: (Include photo numbers here or on a separate s		- Total Cover		
ie*				

Depth (inches)	cription: (Describe to Matrix Color (moist)	%		edox Features		_Loc²	Texture	Remarks
0-12	10 424/2	90	1042518	10	C	M	Fines	
			NA.					
								<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
			S 			-		
	·	-	(/					
						-		
			-	:	-	-		
	S		-					
			-	- ::				
								
Type: C=C	angentration D=Depl		-Dadusad Matrix	MC-Masked S	Cond Cr		21 appliant	PL=Pore Lining, M=Matrix.
	oncentration, D=Deple Indicators:	etion, Rivi	-Reduced Matrix,	WIS-Wasked S	Saliu Gi	airis.		or Problematic Hydric Soils ³ :
Histosol	1 N 2 S 3 S 3 S			elow Surface (S	88) (LRI	RR,		ck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2) stic (A3)		MLRA 149	9B) urface (S9) (LR	RR MI	RA 149B)		airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Muck	y Mineral (F1)	57		Dark Sur	face (S7) (LRR K, L, M)
	d Layers (A5) d Below Dark Surface	(444)	Loamy Gleye Depleted Ma	ed Matrix (F2)				e Below Surface (S8) (LRR K, L)
DESCRIPTION OF THE PROPERTY.	ark Surface (A12)	(A11)	Redox Dark					k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)			rk Surface (F7)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4) Redox (S5)		Redox Depre	essions (F8)				odic (TA6) (MLRA 144A, 145, 149B) ent Material (F21)
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, MI	LRA 1491	3)				Other (Ex	xplain in Remarks)
	f hydrophytic vegetation	on and we	etland hydrology m	nust be present	, unless	disturbed	or problematic.	
	_ayer (if observed):		. 0	Λ		/		/
Type: Depth (ind	ches):		Done	doser	vec,		Hydric Soil Pr	esent? Yes V No
Remarks:			, ,				Tiyano con 11	esenti res no
			iii					
	₩							
	¥5							

Site 3	Wetland I- Wetland Point
WETLAND DETERMINATION DATA FORM	· A Next
Applicant/Owner:	unty: Magora Falls, Mayora Csampling Date: 7-MAY-W
Application owner.	State: / Sampling Point: 177 4
	(concave, convex, none): Concave Slope (%) 6-2
Subregion (LRR or MLRA): Lat:	Long: Datum:
Soil Map Unit Name: Odessa Silty clay 0-21.	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed	d? / Are "Normal Circumstances" present? Yes _ No
Are Vegetation, Soil, or Hydrology naturally problematic	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.
	s the Sampled Area
Hydric Soil Present? Yes No W	rithin a Wetland? Yes V No
Wetland Hydrology Present? Yes No If	yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Boundary 2-9 photos	
2011 14014 a < 0	70-71
1 600 Many 2 7	80
1120	
INC. DOLLARY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	
High Water Table (A2) Aquatic Fauna (B13) ✓ Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
✓ Saturation (A3) Marl Deposits (B15) ✓ Water Marks (B1) Hydrogen Sulfide Odor (C	Dry-Season Water Table (C2)
✓ Sediment Deposits (B2) ✓ Sediment Deposits (B2) ✓ Oxidized Rhizospheres or	
Drift Deposits (B3) Presence of Reduced Iron	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	s) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	₫ #
Water Table Present? Yes No Depth (inches): 2 Saturation Present? Yes No Depth (inches): 0	
(includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections), if available:
Remarks:	
- Linding MATIN MAIN MAIL and	elle 1
standing water near west end of wa	Gland
* · · · · · · · · · · · · · · · · · · ·	The state of the s
	*
	3**

TUGGATOPA PO WEST

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover		nt Indicator ? Status	Dominance Test worksheet:
1. Salix bebianna		Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.	4			Total Number of Dominant
3.				Species Across All Strata: (B)
4.		1		Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	60	= Total C	over	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15			M** 0	FACW species x 2 =
1. Waxinus penusulvanica	2%	N	FACIN	FAC species x 3 =
200mus racemosas	1%	Y	FAC	FACU species x 4 =
3. OVataegus spp			Eliza-	UPL species x 5 = Column Totals: (A) (B)
4.		<u> </u>		Column rotals (ry (s)
5.				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
	10	= Total C	over	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0¹
1. Fraxinus pennsylvanica	1%	Y	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Taraxacum officinate	TV.	1/	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3.50(idago 870)p	1%	_	-	¹ Indicators of hydric soil and wetland hydrology must
J , v v				be present, unless disturbed or problematic.
5.	1, 1 , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		30.0	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			7.1	at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
333	N	= Total Co	over	
Woody Vine Stratum (Plot size: 15			513.20 FG	
1. Vitos vibavia	1%	Y	FALLY	
2.				Hydrophytic Vegetation
3.				Present? Yes No
4.				
	1%	= Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
andified intochange	(01 10			
modified plot shape = or	in ti	STA	y in	veg community
Linear Wetland				
) *	

TUSCANDVA PO WEST

SOIL

Sampling Point: <u>DP 2</u>

Profile Des	scription: (Describe	to the de	pth needed to docu	ment the i	ndicato	or confir	m the absence	of indica	tors.)	
Depth	Matrix		Red	ox Features	§ _ 1	. 2	-			
(inches)	Color (moist)	- %	Color (moist)	%_	Type'	_ Loc²	Texture	-	Remarks	_
0-6"	1044 /1	850	1048 78	190	<u>_C</u> _	M	Fines			(4)
	1 1					-				
	-					-				
	-									
						-				
	-		-							
						-				
				-		-				
S										
									Trit	
92 == 37 = V4W==3 1				-		15	*	-		
1									22.000	
Hydric Soil	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.			Lining, M=Ma	
			D-11 D-1-	0 (/	00) // 50				matic Hydric	
Histosol	pipedon (A2)		— Polyvalue Belov MLRA 149B		58) (LRI	KK,			(LRR K, L, MI lox (A16) (LRF	
	istic (A3)		Thin Dark Surfa		RR R. MI	LRA 149B			or Peat (S3) (I	
	en Sulfide (A4)		Loamy Mucky N						(LRR K, L, M	
	d Layers (A5)		Loamy Gleyed						Surface (S8) (L	
	d Below Dark Surface	e (A11)	Depleted Matrix						e (S9) (LRR K,	
	ark Surface (A12)		Redox Dark Su						Masses (F12) (
	Mucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark SRedox Depress)					(MLRA 149B)
	Redox (S5)		Redox Depress	10118 (F6)				ent Mater	6) (MLRA 144.	A, 145, 149B)
	Matrix (S6)								k Surface (TF1	2)
	rface (S7) (LRR R, N	ILRA 149E	3)					xplain in F		-/
			^ ,						•	
Indicators of	f hydrophytic vegetat	ion and we	tland hydrology mus	t be presen	t, unless	disturbed	or problematic.			N=3-7-
Restrictive L	ayer (if observed):									
Туре: <u>//</u>	, ,	1621							· ×	
Depth (inc	ches):	-					Hydric Soil P	resent?	Yes	No
Remarks:										
	¥(i									
	₩.									
					1					
	2.0				Ā					
					1			99		
					1					
	Ħ									

Site 3

Wetland 2-Upland

	Northcentral and northeast region
Project/Site: SGL City/County:	NIAGARA NIACARA Sampling Date: 4/29/10
Applicant/Owner: SGL EQUITIES, LLC	State: NY Sampling Point:
Ta a Day Live at	rnship, Range:
2/ 1/	ocal relief (concave, convex, none):
	78. 96
07-00	NWI classification: Non Q
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	New Management - Party
Are Vegetation, Soil, or Hydrology significantly disturbed? A	요즘 NO
Are Vegetation, Soil, or Hydrology naturally problematic? \(\shcap \)	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the	Sampled Area
1 Hydrophytic vegetation (resent: 165 140)	n a Wetland? Yes No
	, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	- Spanial Holding One ID.
	20
	*
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	18 IN
Sediment Deposits (B2) Oxidized Rhizospheres on L	
Drift Deposits (B3) Presence of Reduced Iron ([18] [18] [18] [18] [18] [18] [18] [18]
Algal Mat or Crust (B4) Recent Iron Reduction in Til	[18] 18 18 18 18 18 18 18 18 18 18 18 18 18
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	PAC-Nedutal Test (D5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	- 120 P. D. C. M. D. C.
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	nspections), if available:
Remarks:	
	4
¥6	* * * * * * * * * * * * * * * * * * * *
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VEGETATION - Use scientific names of plants.

Sampling Point; WGA-U

	Abashta Danisant Indicator	
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3.		Species Across All Strata: (B)
4.		Percent of Dominant Species 570
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)	1	FACW species x 2 =
1. CRATAEGUS SP	20 y FACU	FAC species x3 =
2. CORNUS FOEMINA	20 Y FAC	FACU species x4 =
3.		UPL species x 5 = Column Totals: (A) (B)
4		
5.		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		Rapid Test for Hydrophytic Vegetation
	40 = Total Cover	Dominance Test is >50%
Herb Stratum (Plot size:)		Prevalence Index is ≤3.01 Membelogical Adaptations 1 (Provide supporting
1		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2		Problematic Hydrophytic Vegetation¹ (Explain)
3		¹ Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	- 	at breast height (DBH), regardless of height.
8		
9,		and greater than 3.28 ft (1 m) tall.
10		Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		Woody vines - All woody vines greater than 3.28 ft in
12	= Total Cover	height.
Mark Nov. Blackers (Blat show	= Total Cover	
Woody Vine Stratum (Plot size:)		
1		
2		11.2.2.2.2
3		Hydrophytic Vegetation
4		Present? Yes No
Remarks: (Include photo numbers here or on a separate	= Total Cover	1
Remarks: (include prioto flumbers here of our a separate	sileet.)	
•		
6		,

Sampling Point: WEA-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	
10 104R4/3 90 104R4/4 10 SICL	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains.	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³	
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 14 Histic Epipedon (A2) — MLRA 149B) — Coast Prairie Redox (A16) (LRR K, L,	
Black Histic (A3) Thir Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR R	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (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	(I D)
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR I Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLR	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145	
Sandy Redox (S5) Red Parent Material (TF2)	***
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Туре:	
Depth (inches): No	2
Remarks:	
€.	
et e	
34 ***	

SHE 3

Wetland 2-Wetland Point

	WETLAND DETERM	INATION DATA FORM	- Northcentral	and Northeast Region
Project/Site	5GL	City/Count	W NIAGARA	WIAGARA Sampling Date: 4/29/10
Applicant/Owner:	SGL EQUITI	ES LLC	9. 20 11 0 11 0 11	State: MY Sampling Point:
Investigatories:	TOM CONNAM	Seation T	Township Dongo:	State. 75 Sampling Point.
			Township, Range:	
Landform (hillslope, to	rrace, etc.): PLA/	77		/e, convex, none):
Slope (%):5	_ Lat:	Long:	10.18	Datum:
Soil Map Unit Name:	ODESTA.	112		NWI classification:
Are climatic / hydrolog	ic conditions on the site typica	al for this time of year? Yes _	2 No	(If no, explain in Remarks.)
Are Vegetation	, Soil, or Hydrology _	significantly disturbed?	NO Are Normal	Circumstances" present? Yes No No
Are Vegetation	, Soil, or Hydrology _	naturally problematic?	NO (If needed, e	explain any answers in Remarks.)
		2.5	in the	ons, transects, important features, etc
		~		mo, nanosto, important roatares, etc
Hydrophytic Vegetat	ion Present? Yes	110	the Sampled Area	Yes No
Hydric Soil Present?			thin a Wetland?	
Wetland Hydrology I			es, optional Wetland	Site ID:
19 525	alternative procedures here or	in a separate report.)	***	
P17	CH			
F . 7	~ 01/0-AC	14 17		
3//	E PHOTOS	17-11		
				*
L				
HYDROLOGY				
Wetland Hydrology	Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (r	ninimum of one is required; ch	neck all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1)	∠ Water-Stained Leaves (B)	9)	Drainage Patterns (B10)
X High Water Tab		Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B	17 Maria - 18 maria -	Hydrogen Sulfide Odor (C		Crayfish Burrows (C8)
Sediment Depos	10.00	Oxidized Rhizospheres of		
Drift Deposits (E Algal Mat or Cru		Presence of Reduced Iron		Stunted or Stressed Plants (D1)
Iron Deposits (B		 Recent Iron Reduction in Thin Muck Surface (C7) 	Tilled Soils (Cb)	Geomorphic Position (D2) Shallow Aquitard (D3)
	1	Other (Explain in Remark	re)	Microtopographic Relief (D4)
	ted Concave Surface (B8)	color (Explain in Neman	,	FAC-Neutral Test (D5)
Field Observations		0-	7	
Surface Water Prese		Depth (inches):	6	
Water Table Present	? Yes No	Depth (inches):O		\
Saturation Present?	Yes No	Depth (inches):	Wetland F	lydrology Present? Yes No
(includes capillary fri		ng well, aerial photos, previou	is inspections) if ava	ilable:
	, 3-030) (110/110/110	.g July desiran priorios, proviou		
				- Thinks C
Remarks:		-		
				120

				9
	*			
		(*)		

VEGETATION - Use scientific names of plant	VE	GET	ATION -	- Use	scientific	names	of	plants
--	----	-----	---------	-------	------------	-------	----	--------

Sampling Point: WEAW MY

· · · · · · · · · · · · · · · · · · ·	Absoluta	Dominan	t Indicator	
Tree Stratum (Plot size: 30')	Absolute % Cover		t Indicator Status	Dominance Test worksheet:
	10	Species:		Number of Dominant Species
1. QUERCUS BICOLOR			FACW	That Are OBL, FACW, or FAC: (A)
2.				
				Total Number of Dominant
3				Species Across All Strata:/(B)
4				Percent of Dominant Species /06
			30,000	That Are OBL, FACW, or FAC: (A/B)
5				
6.		Charles and		Prevalence Index worksheet:
7	74			Total % Cover of: Multiply by:
,-1	. 10	= Total Co	over	OBL species x1 =
Sapling/Shrub Stratum (Plot size:/ 5)				FACW species x 2 =
	20	V	FACW	FAC species x3 =
1. CORNUS AMOMUM	20		MEN	
2				FACU species x 4 =
4				UPL species x5 =
3				Column Totals: (A) (B)
4				
201				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
1.				
<u>-</u> /		= Total C	over	Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)				
1. LYTHRUM SALICARIA	10	\vee	FACW	Morphological Adaptations¹ (Provide supporting
	10			data in Remarks or on a separate sheet)
2. MARAGMITES AUSTRALIS	<u> </u>	<u> </u>	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				D-6-10
				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
				- 154 MU N 400 M H M M M M M M M M M M M M M M M M M
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines - All woody vines greater than 3.28 ft in
	15	= Total C	over	height.
	- / -	_ Total C	OYCI	
Woody Vine Stratum (Plot size;)				
1.				
2				
3				Hydrophytic
	7			Vegetation
4	-			Present? Yes / No
		= Total C	over	
Remarks: (Include photo numbers here or on a separate s	sheet.)			<u> </u>
~				
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*				
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Sampling Point: WEAW MV

Depth Matrix			x Features			the absence of	,	
(inches) Color (moist) %	6 Co	olor (moist)	%	Type ¹	Loc2	Texture	Rem	arks
Or ::01:401: 1/							,	
8 104R3/1 10	<u> </u>					3/4		
		- (228)						
Type: C=Concentration, D=Depletion Hydric Soil Indicators:	, RM=Redu	uced Matrix, C	S=Covered	d or Coate	d Sand Gra		ation: PL=Pore Lir for Problematic H	
Histosol (A1)	F	Polyvalue Belo	w Surface	(S8) (LRF	R.		luck (A10) (LRR K,	
Histic Epipedon (A2)		MLRA 1498	3)			Coast I	Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		Thin Dark Surf					lucky Peat or Peat urface (S7) (LRR k	(S3) (LRR K, L, R)
Stratified Layers (A5)		oamy Gleyed)		lue Below Surface	
 Depleted Below Dark Surface (A1*) Thick Dark Surface (A12) 		Depleted Matri					ark Surface (S9) (L	.RR K, L) (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)		Redox Dark Su Depleted Dark						s (F19) (MLRA 149E
Sandy Gleyed Matrix (S4)	F	Redox Depress	sions (F8)				Spodic (TA6) (MLR arent Material (TF2)	RA 144A, 145, 149B
C D (CC)						Red Pa	arent Material (11-2)
Sandy Redox (S5) Stripped Matrix (S6)								e (TF12)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA	149B)					Very S	hallow Dark Surfac Explain in Remark	
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA		hydrology mu	st he press	ont unless	disturbed	Very Si	hallow Dark Surfac Explain in Remark	
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA Indicators of hydrophytic vegetation ar		hydrology mu	st be prese	ent, unless	disturbed	Very Si	hallow Dark Surfac Explain in Remark	
_ Stripped Matrix (S6)		hydrology mu	st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA indicators of hydrophytic vegetation ar destrictive Layer (if observed): Type: Depth (inches):	nd welland	hydrology mu	st be prese	ent, unless	disturbed	Very Si	hallow Dark Surfac Explain in Remark	
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches):	nd welland	hydrology mu	st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches): temarks:	nd welland		st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar estrictive Layer (if observed): Type: Depth (inches): emarks:	nd welland		st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches):	nd welland		st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches): temarks:	nd wetland		st be prese	ent, unless	disturbed	Very Si Other (hallow Dark Surfac Explain in Remark	s)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches): temarks:	nd wetland					— Very Si — Other (or problematic Hydric Soil	hallow Dark Surfac Explain in Remark	S) No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA indicators of hydrophytic vegetation ar destrictive Layer (if observed): Type: Depth (inches): temarks:	nd wetland					— Very Si — Other (or problematic Hydric Soil	hallow Dark Surfac Explain in Remark	S) No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA indicators of hydrophytic vegetation ar destrictive Layer (if observed): Type: Depth (inches): temarks:	nd wetland					— Very Si — Other (or problematic Hydric Soil	hallow Dark Surfac Explain in Remark	S) No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA indicators of hydrophytic vegetation ar itestrictive Layer (if observed): Type: Depth (inches): ternarks:	nd wetland				2	Very Si Other (hallow Dark Surfac Explain in Remark	× №
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA Indicators of hydrophytic vegetation ar Restrictive Layer (if observed): Type: Depth (inches): Remarks:	nd wetland				2	Very Si Other (hallow Dark Surfac Explain in Remark	× №
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA indicators of hydrophytic vegetation ar itestrictive Layer (if observed): Type: Depth (inches): ternarks:	nd wetland					Very Si Other (hallow Dark Surfac Explain in Remark: Present? Yes _	>>> No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar testrictive Layer (if observed): Type: Depth (inches): emarks:	nd wetland					Very Si Other (hallow Dark Surfac Explain in Remark: Present? Yes _	>>> No
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA ndicators of hydrophytic vegetation ar estrictive Layer (if observed): Type: Depth (inches): ermarks:	nd wetland					Very Si Other (hallow Dark Surfac Explain in Remark: Present? Yes _	>>> No

SH 3

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region
Project/Site: MCAYOYA PD WILL City/County: Ningara Falls, Margara Sampling Date: 7-MAY
Applicant/Owner: State: My Sampling Point: DP 5
Investigator(s): Baker, Tara Sie Niz 2 (USACE) Section, Township, Range:
Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Nene Slope (%): 0'-2
Soil Map Unit Name: Odessa 511 clay 0-21. Stopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
soils and veg disturbed by agriculture
(a) (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
photo 13 bp at GPS 62
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes NoX Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
made made for titled
held may be tited
e; ai

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 1)		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		A company All Chroto:
4		11 14 50 50
6		Prevalence Index worksheet:
		The state of the s
7	= Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15')	= Total Gover	FACW species x 2 =
		FAC species x 3 =
1. MA		FACU species x 4 =
2		UPL species x5 =
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic vegetation
7		2 - Dominance Test is >50%
F1	= Total Cover	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: 5 1)	51. Y NI	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
1. 1/// //		Problematic Hydrophytic Vegetation ¹ (Explain)
2		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		
5		
6		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9		Herb - All herbaceous (non-woody) plants, regardless of
10		size, and woody plants less than 3.28 ft tall.
		Woody vines – All woody vines greater than 3.28 ft in height.
12	= Total Cover	
Woody Vine Stratum (Plot size: 15)		
1. V/a		
2.		Hydrophytic Vegetation
2		Present? Yes No
3		
4	= Total Cover	
Remarks: (Include photo numbers here or on a separa	te sheet.)	

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Profile De	scription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence	of indicat	tors.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature	<u>S</u>	1 002	Tavdona		D	
0-12	1042 4/2	911	104P 9/8		Type ¹	Loc ²	Texture		Remarks	
0 10	1041-77	10	1014 10	10_		M	Fines			
			1			-				
	-	-			· —	-	· · · · · · · · · · · · · · · · · · ·			
					-	-				
						- Zavez				
		•			•					
N -1						-				
					WHO IS		201		,	
¹Type: C=C	Concentration, D=Depl	etion RM	=Reduced Matrix M	S=Masked	Sand Gra		2l ocation:	PI =Pore	Lining, M=Ma	triv
Hydric Soil	Indicators:	otion, rtivi	rtoddodd Matrix, M	O Maskea	Odrid Ore	1110.			matic Hydric	
Histoso			Polyvalue Belov	w Surface ((S8) (LRR	R,			(LRR K, L, ML	
	pipedon (A2)		MLRA 149B)				Coast P	rairie Red	ox (A16) (LRF	R K, L, R)
	listic (A3) en Sulfide (A4)		Thin Dark Surfa						or Peat (S3) (I	
	d Layers (A5)		Loamy Mucky N Loamy Gleyed I			L)			(LRR K, L, M Surface (S8) (L	
	d Below Dark Surface	(A11)	X Depleted Matrix						(S9) (LRR K,	
	ark Surface (A12)		Redox Dark Sur				Iron-Mar	nganese N	Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark S		7)					(MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)				oodic (TA6 ent Materi	6) (MLRA 144.	A, 145, 149B)
	Matrix (S6)								Surface (TF1	2)
	rface (S7) (LRR R, M	LRA 1491	3)					xplain in F		7/
31111	et									
Restrictive	f hydrophytic vegetation for the comment of the com	on and we	etland hydrology mus	t be preser	nt, unless	disturbed	or problematic.			
	one obser	red								
Depth (in							Hydric Soil P	recent?	Yes	No
Remarks:							Tryunc con Fr	esenti	163	NO
, torrial tor										
			G.							
	/±									
	2									
						16				
							1			

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: TUGCO YOVA PH West _ City/County: Nagara Falls, Nagara Sampling Date: DP 6 Applicant/Owner: Targuience (USACE) Section, Township, Range: Investigator(s): Baker Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave Subregion (LRR or MLRA): Lat: Soil Map Unit Name: Ode Sta SITh Clay Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No_ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? Hydric Soil Present? Wetland Hydrology Present? If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Ag drainage at edge of farm field. Finger 4 = photo 74 HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Drainage Patterns (B10) _ Water-Stained Leaves (B9) Aquatic Fauna (B13) EVELN 6095 High Water Table (A2) Moss Trim Lines (B16) X Saturation (A3) __ Marl Deposits (B15) Dry-Season Water Table (C2) ___ Water Marks (B1) __ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) 🔀 Algal Mat or Crust (B4) X Geomorphic Position (D2) ___ Recent Iron Reduction in Tilled Soils (C6) __ Thin Muck Surface (C7) Iron Deposits (B5) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) __ Other (Explain in Remarks) ___ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Yes No Depth (inches): (Surface Water Present? Yes No ____ Depth (inches): Water Table Present? ➤ No Depth (inches):
↑
* Wetland Hydrology Present? Yes No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: aps 62-97 and 106-108 tinger wetland 2 GPS 98-106 Roadside Ditch / wetland 975 109-112 NH. Wide & Finger 3 117-123 3 Ft wide

US Army Corps of Engineers GPS points 124-177 includes Rorthcentral and Northeast Region - Version 2.0

alt-GPS points alt- Sides of wetland

/EGETATION -	Use scientific	names	of pla	ants.

20'	Absolute		Dominance Test worksheet:
Tree Stratum (Plot size: 30)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant 2
3			Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
6.			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
7			OBL species x1 =
16'		_ = Total Cover	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15	0.	XI EAT.	FAC species x 3 =
1. Phamnus camarhia	· <u> </u>	TA TAC	FACU species x 4 =
2. COVNUS VAUMOSO	. 2	YIAU	UPL species x 5 =
3			Column Totals: (A) (B)
4			9
5			Prevalence Index = B/A =
6.			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
7	-7	T-1-10	2 - Dominance Test is >50%
F 1		_ = Total Cover	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5') 1. TUPNA SIPP	50	Y OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2			Problematic Hydrophytic Vegetation ¹ (Explain)
3			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4			Definitions of Vegetation Strata:
5			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
6			at breast height (DBH), regardless of height.
8			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9			Herb – All herbaceous (non-woody) plants, regardless of
10	-		size, and woody plants less than 3.28 ft tall.
11.			Woody vines - All woody vines greater than 3.28 ft in
12.			height.
	5/1	= Total Cover	
Woody Vine Stratum (Plot size: 15')	5		
N/A			
1.MA			Hydrophytic
2			Vegetation
3			Present? Yes No
4.			
	-	_ = Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		
			j.
algal mat			
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		≦4	*
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Depth	cription: (Describe Matrix	to the de		ment the i		or confir	m the absence of in	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remark	ks
0-6"	10XP 4/	90	10/23/8	_10_		M			
	* * -			-					
					_				
								*	
¹ Type: C=Co Hydric Soil I	oncentration, D=Deple Indicators:	etion, RM:	=Reduced Matrix, MS	S=Masked S	Sand Gra	ins.	² Location: PL=I	Pore Lining, M=N	latrix. c Soils³:
Black His Hydrogei Stratified Depleted Thick Da Sandy M Sandy Gi Sandy Re Stripped	ipedon (A2)	e de la companya de l	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depression	ce (S9) (LR lineral (F1) Matrix (F2) (F3) face (F6) Surface (F7)	RR, ML (LRRK,	RA 149B)	2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M	10) (LRR K, L, II Redox (A16) (LR Peat or Peat (S3) (S7) (LRR K, L, ow Surface (S8) face (S9) (LRR II se Masses (F12) odplain Soils (F19 (TA6) (MLRA 14 aterial (F21)	MLRA 149B) RR K, L, R) (LRR K, L, R) M) (LRR K, L) (, L) (LRR K, L, R) 9) (MLRA 149B) 4A, 145, 149B)
Indicators of	hydrophytic vegetatio	n and wet	land hydrology must	be present	, unless o	disturbed of	or problematic.		
	ayer (if observed):						· · · · · · · · · · · · · · · · · · ·		
Type: Depth (inch	nes):							×	2283
Remarks:	100)						Hydric Soil Presen	t? Yes X	_ No
					547				
	er er						9	E-27-11	

Site 3

Wetland 3- Upland

WETLAND DETERMINATION DATA FORM - North	hcentral and Northeast Region
SGL SUCKE SILVER	TARA AMATARIA 4/29/10
Project/Site:City/County: NIA Applicant/Owner: 56 L EQUITIES, LLC	State: NY Sampling Point
Applicant/Owner: JG L COVITIES, LL	
Investigator(s): To M CONNARE Section, Township,	Range:
	lief (concave, convex, none):
Slope (%): 0-5 Lat: 43,/2 Long: 70	8. 96 Datum:
0) = 101	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes N	
Are Vegetation, Soil, or Hydrology significantly disturbed? NO A	
Are Vegetation, Soil, or Hydrology naturally problematic? NO (
SUMMARY OF FINDINGS - Attach site map showing sampling point	nt locations, transects, important features, etc.
	Trouble of the control of the contro
Hydrophytic Vegetation Present? Yes No Is the Samp within a Wes No within a Wes No	
	etland? Yes No
	nal Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
v.	
*	(*)
HYDROLOGY	36 18
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	Drainage Patterns (B10)
	Moss Trim Lines (B16)
	Dry-Season Water Table (C2)
	Crayfish Burrows (C8)
	Stunted or Stressed Plants (D1)
	A COLOR OF THE COL
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	×
Saturation Present? Yes No _\(\noting \) Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No /
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), if available:
	•
	THE STATE OF THE S
Remarks:	
	9
9	
•	

VEGETATION - Use scientific names of plants.

Sampling Point: W50 007

Tree Stratum (Plot size:)	Absolute % Cover		t Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL. FACW, or FAC: (A)
2				That Are OBL, FACW, or FAC: (A) Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species 20
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
15		= Total Co	over	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1. CRATAEGUS SP	10	<u> </u>	FACU	FAC species x 3 =
2 CORNUS FOEMINA	20	Y	FAC	FACU species x4 =
3. RHAMNUS CATHARTICA-	10	Y	U	UPL species x5 =
4.				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
	30	= Total C	over	Dominance Test is >50%
5'		10tai O		Prevalence Index is ≤3.01
Herb Stratum (Plot size:) 1. SOLIDAGO CANADENSIS	10	Y	FACU	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2 PHLEUM PRATENSE	10	y	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
3.	-	-		
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
6.				Definitions of Vegetation Strata:
7		-		Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9				Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			-	Woody vines - All woody vines greater than 3.28 ft in
12	20	_ = Total C		height.
Ward Mar Shahar (Bladaina		_ = 10tal C	Over	
Woody Vine Stratum (Plot size:)				€
1				
2				20.00
3		100 000		Hydrophytic Vegetation
4				Present? Yes No
		_ = Total C	over	1
Remarks: (Include photo numbers here or on a separate	sheet.)			
*				
Ų				*

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Sampling Point: W5-0 DP7

Profile Desc	ription: (Describe to	the dep	th needed to docum	nent the indicator	or confirm	the absence of indicators.)	
Depth	Matrix_			x Features		numbers with the control of the cont	
(inches)	Color (moist)	%	Color (moist)	% Type¹	_Loc ²	Texture	Remarks
10	104R5/3	90	10415/4	10		SICL	
	1-11-5/2		1 11001				
		•			-		
	· · · · · · · · · · · · · · · · · · ·						
			-				
				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
¹Type: C=Co	oncentration, D=Deple	etion, RM:	Reduced Matrix, CS	6=Covered or Coa	ted Sand Gr	ains. ² Location: PL=Por	e Lining, M=Matrix.
Hydric Soil 1		1000		7/12/		Indicators for Problemat	
Histosol	(A1)		Polyvalue Belov	w Surface (S8) (LF	RRR,	2 cm Muck (A10) (LR	R K, L, MLRA 149B)
	olpedon (A2)		MLRA 149B	5)		Coast Prairie Redox (
Black Hi				ace (S9) (LRR R, 1		그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Peat (S3) (LRR K, L, R)
	n Sulfide (A4)			Mineral (F1) (LRR	K, L)	Dark Surface (S7) (LI	
V (i Layers (A5) d Below Dark Surface	(011)	Loamy Gleyed Depleted Matrix			Polyvalue Below Surf Thin Dark Surface (St	
	ark Surface (A12)	(ATT)	Redox Dark Su				ses (F12) (LRR K, L, R)
4. 14. 14. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	lucky Mineral (S1)		Depleted Dark				Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress				MLRA 144A, 145, 149B)
	edox (S5)					Red Parent Material (• 100 C C C C C C C C C C C C C C C C C C
	Matrix (S6)					Very Shallow Dark St	
Dark Sur	face (S7) (LRR R, M	LRA 149E	3)			Other (Explain in Ren	narks)
3Indicators of	hydrophytic vegetation	on and we	tland bydrology mus	t he present unle	ss disturbed	or problematic	
	ayer (if observed):	orr arro we	dand flydrology filds	st be present, dite	33 013(01060	T problematic.	
Type:	, , , , , , , , , , , , , , , , , , , ,						,
	ches):		2780			Hydric Soil Present? Y	es No >>
	Ales).					11,44110 0011 110001111 1	
Remarks:							
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		54					
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				*		Ç	
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					€		
						- 4	
	4					*	

Site 3

Wetle

Wetland 3 -Wetland Region Point

	DATA FORW - NOTTICE	inital and Northeast Region POIN
Project/Site: SGL	City/County: NIAGI	ARA WIAGARA Sampling Date: 4/29/10
Applicant/Owner: 56L EQUITIES,	LLC	State: NY Sampling Points
Investigator(s): TOM CONNARE	Section, Township, Ran	,
Landform (hillslope, terrace, etc.): PLAIN		concave, convex, none):
Slope (%): 0-5 Lat: 43,/2	Long: 78.	
Soil Map Unit Name: ODESSA 5/L	Long	
Are climatic / hydrologic conditions on the site typical for this ti	ma of year? Vas X No	NWI classification:
	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Are Vegetation, Soil, or Hydrology sign		
Are Vegetation, Soil, or Hydrology nate	arally problematic?/VV (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	lowing sampling point lo	ocations, transects, important features, etc.
Wetland Hydrology Present? Yes No	within a Wetland	V1
Remarks: (Explain alternative procedures here or in a separ	ate report.)	
SITE PHOTOS 10-13		H
AREA IS INUNDATES	EDLIAMING I	PRECIPITATION EVENTS.
DRAINAGE OUTLET A	AS BECOME P	LUGGED -SLOPE PAIRURE?
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	t annivi	Surface Soil Cracks (86)
~	Stained Leaves (B9)	Drainage Patterns (B10)
~	c Fauna (B13)	Moss Trim Lines (B16)
— .	eposits (B15)	Dry-Season Water Table (C2)
	gen Sulfide Odor (C1)	200 PAC 1980
	건	Crayfish Burrows (C8)
	ed Rhizospheres on Living Roots	
	nce of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
- Martin -	t Iron Reduction in Tilled Soils (C	
- TST - (A.) [12] [14] [15] [15] [16] [16] [17] [17] [17] [17] [17] [17] [17] [17	uck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other ((Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:	2./	
Surface Water Present? Yes No Depth	(inches): 0-4	
	(inches): 0-4	V _e :
Saturation Present? Yes X No Depth (includes capillary fringe)	(inches): 0-4 Wet	tland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections)	, if available:
D 1		
Remarks:		
9		*
		*
*		€
N/		
	¥);	

VEGETATION – Use scientific names of plan	VEGETATI	ON - Use	scientific	names	of	plants
---	----------	----------	------------	-------	----	--------

Sampling Point: W5-W

T2001111011 Octobrishmentality of plants	Absolute	Daminost	Indicator		
Tree Stratum (Plot size:)		Dominant Species?		Dominance Test worksheet:	
				Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	(A)
2.				Total Number of Dominant	
3				Species Across All Strata:	(B)
				5	
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
5				matrie obt, From, or the	(, 00)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		T./-10-			
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	OBL species x1 =	
Sapling/Shrub Stratum (Plot size:)		- 11	O	FACW species x 2 =	
1. CORNUS AMOMUM	15		THOW	FAC species x 3 =	
2. CORNUS FOEMINA	10	4	FAC	FACU species x 4 =	_
		/		UPL species x 5 =	_
3				Column Totals: (A)	_ (B)
4					
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
0.				Rapid Test for Hydrophytic Vegetation	
7				Dominance Test is >50%	
	45	= Total Co	ver	Prevalence Index is ≤3.0¹	
Herb Stratum (Plot size:)		1.675000			41
1. TYPHA LATIFOLIA	15	Y	OBL	 Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) 	ung
2. LYTHRUM SALICARIA	15	-	FACU		in)
2. 27/11/2019 -1/01/10.7			111000	Trablematio Hydrophytic vegetation (Explain	,
3				¹ Indicators of hydric soil and wetland hydrology r	nust
4				be present, unless disturbed or problematic.	11001
5				D. C. W CV L. U CV L. U.	
				Definitions of Vegetation Strata:	
6				Tree - Woody plants 3 in. (7.6 cm) or more in dis	ameter
7				at breast height (DBH), regardless of height.	
8				Sapling/shrub - Woody plants less than 3 in. D	вн
9				and greater than 3.28 ft (1 m) tall.	
				II All back and a company a look and a company a look and a company a look a look a company a look a look a company a look a look a company a look a look a company a look a look a company a look a look a company a look a company a look a look a look a look a company a look	adlass
10				Herb - All herbaceous (non-woody) plants, rega of size, and woody plants less than 3.28 ft tall.	luess
11		-		Annual Control of the	
12.				Woody vines - All woody vines greater than 3.2	28 ft in
	30	= Total Co	ver	height.	
Woody Vine Stratum (Plot size:)					-
vidooy vine dilatatii (i lot size,)				160	
1				1	
2					
3				Hydrophytic	
4				Vegetation	
4				Present? Yes No	
		= Total Co	ver		
Remarks: (Include photo numbers here or on a separate	sheet.)				
SOME WOODY VEG	ETATI	nal 6	LAT 1	BEEN CUT YOUN.	
MUCH OFTHE ARE	A TH	AT	GETS	INUNDATED 1	
	* ''			A CONTRACTOR OF THE CONTRACTOR	
NOT WETLAND.					
# 250 50 50 50 50 50 50 50 50 50 50 50 50 5					
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ampling Point: 45-W DP8

Profile Desc	cription: (Describe to	the dep	th needed to docur	nent the	indicator	or confirm	the absence of i	indicators.)		
Depth	Matrix			x Feature	s		122 1111			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc2	Texture	Ren	narks	
- 0	11011011			-						
8	10484/2	90	104R5/6	10	A		SICL			
			2/			100000000000000000000000000000000000000				
				-	-					
						1000		*		

			20000							
99	12									· · · · · · · · · · · · · · · · · · ·

-							-			
				-						
=										
'Type: C=C Hydric Soil	oncentration, D=Deple	etion, RM	=Reduced Matrix, CS	S=Covere	d or Coate	ed Sand G		on: PL=Pore Li		
Histosol			Polyvalue Belov	w Surface	(S8) (LR	2 R		k (A10) (LRR K		
	pipedon (A2)		MLRA 149B)			Coast Pra	irie Redox (A16		
The state of the s	istic (A3)		Thin Dark Surfa					ky Peat or Peat		RR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky M			, L)		ace (S7) (LRR I Bélow Surface		PRKI)
Deplete	d Below Dark Surface	(A11)	X Depleted Matrix		-/			Surface (S9) (I		
	ark Surface (A12)		Redox Dark Su					ganese Masses		
	Mucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark : Redox Depress					Floodplain Soil odic (TA6) (ML		
	Redox (S5)		Nedox Depress	10113 (1 0)				nt Material (TF2		, 145, 1450)
1 (0)	Matrix (S6)						Very Shal	low Dark Surface	ce (TF12	2)
Dark Su	rface (S7) (LRR R, MI	RA 1498	3)				Other (Ex	plain in Remark	(s)	
³ Indicators o	f hydrophytic vegetation	n and we	tland hydrology mus	st be pres	ent, unless	disturbed	or problematic.			
	Layer (if observed):						7			
Туре:									X	
Depth (inc	ches):						Hydric Soil Pre	esent? Yes		No
Remarks:						42 SV				300.000
	(9									
									5.4	
	45									
								*		
					4:1			25		
										*
			ä			4		¥()		
					21					
							180			

Site 3

Wetland 4-Upland Point North

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:SGL City/County:	NIAGARA WIACARA Sampling Date: 4/29 // State: MY Sampling Point
Applicant/Owner: 56L EQUITIES, LLC	State: MY Sampling Point
	wnship, Range:
	Local relief (concave, convex, none):
AX 5550 511	
oil Map Unit Name: ODESSA 512	NWI classification:
are climatic / hydrologic conditions on the site typical for this time of year? Yes	
re Vegetation, Soil, or Hydrology significantly disturbed?	NO Are "Normal Circumstances" present? Yes 🔀 No
re Vegetation, Soil, or Hydrology naturally problematic? /	VO (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, et
	e Sampled Area in a Wetland? Yes No
	s, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
**	
YDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aqualic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Mart Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1 Sediment Deposits (B2) Oxidized Rhizospheres on	[19] - C.
Drift Deposits (B3) Presence of Reduced Iron	[1980] 전공대에 보고하는 아이를 보면 되었다면 하다고 그림으로 하는 사람들이 되고 있다면 하는데 사람들을 받아 하는데 하는데 사람들이 사용되었다면 생각하는데 사람들이 되었다고 있다.
Algal Mat or Crust (B4) Recent Iron Reduction in Ti	[1988]
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	*
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	—
Saluration Present? Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	inspections), if available:
Remarks:	
	*
	2
	*
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ė.	

VEGETATION – Use scientific names of plants	V	EGETA	TION -	Use	scientific	names	of	plants
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Sampling Point: W4B-U VP9

Tree Stratum (Plot size:) 1 2 3 4 5 6	-		Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A) (B)
Sapling/Shrub Stratum (Plot size:	15 15	= Total Cov	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
2	30	= Total Co	ver PÂCU	Prevalence Index = B/A =
5				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:) 1 2 3 4 Remarks: (Include photo numbers here or on a separate				Hydrophytic Vegetation Present? Yes No

Sampling Point: W48-U DP SOIL Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of Indicators.) Depth Redox Features (inches) % Type Loc2 Color (moist) Color (moist) Texture Remarks 90 104/25/4 10 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: 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 (S7) (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) Iron-Manganese Masses (F12) (LRR K, L, R) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (TF2) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Depth (inches): Yes Remarks:

Site 3

Wetland 4-Wetland Point east Region North

WEI LAND DETERMINATION	V DATA FORM - Northcentral and Northeast Region
Project/Site:5GL	City/County: NIA GARA/NIAGARA Sampling Date: 4/29/10
Applicant/Owner: SGL EQUITIES	LLC State: NY Sampling Point W/B
Investigator(s): TOM CONNARE	Section, Township, Range:
Landform (hillslope, terrace, etc.): PLAIN	Local relief (concave, convex, none): D / T < #
Slope (%): 0-5 Lat: 43.12	
A)	
Soil Map Unit Name: ODESSA SIL	NWI classification:
	ime of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig	. 16
Are Vegetation, Soil, or Hydrology nat	lurally problematic? NO (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site man st	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separ	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:
DITCH SITE PHOTO 9	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	
	Stained Leaves (89) Drainage Patterns (810)
	c Fauna (B13) Moss Trim Lines (B16)
	peposits (B15) Dry-Season Water Table (C2) gen Sulfide Odor (C1) Crayfish Burrows (C8)
	ed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	nce of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	t Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	luck Surface (C7) Shallow Aquitard (D3)
[2017] 12 [26] 전 12 [26]	(Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	^ ^
Surface Water Present? Yes No Depth	
Water Table Present? Yes No Depth	× × × × × × × × × × × × × × × × × × ×
Saturation Present? Yes No Depth (includes capillary fringe)	(inches): 0-9 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections), if available:
Remarks:	
	ŷ ×
	* * * * * * * * * * * * * * * * * * * *
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A.	
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VEGETAT	TION - Use	scientific	names	of I	plants.
AFOLIVI	1011 - 030	O O O I I I I I I	Hantos	V1 1	JICH HO.

ipp10 Sampling Point: W4B-W

Tree Stratum (Plot size:) 1	% Cover	Dominan Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
15		= Total Co	over	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15) 1. SALIX SP. 2. 3.				FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
4 5				Prevalence index = B/A =
6				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
15	20	= Total Co	over	 Dominance Test is >50% Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 15) 1. LY THRUM SALICARIA	20	У	FACY	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. CAREX SP.	15		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in height.
AND TO TRACE AND TO COMPANY AND THE	35	_= Total Co	over	neight.
Woody Vine Stratum (Plot size:) 1.			19.4	
2				
3				Hydrophytic
4				Vegetation Present? Yes No
		= Total Co	over	<u> </u>
Remarks: (Include photo numbers here or on a separate	sheet.)			
e .				ž

Sampling Point: VHB-W

Depth	ription: (Describe Matrix	to the dept		x Features		or contirm	the absence of indica	tors.)
(inches)	Color (moist)	%	Color (moist)	_%	Type ¹	Loc²		Remarks
8	104R4/1	100			<u>_</u>		511	
¹Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, CS	S=Covered	d or Coate	d Sand Gr	ains. ² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Thick Da Sandy M Sandy R Stripped	Indicators:	ce (A11)	Polyvalue Belov MLRA 1498 Thirr Dark Surfa Loamy Mucky M Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark S Redox Depress	w Surface) lice (S9) (I Mineral (F- Matrix (F2 (F3) rface (F6) Surface (F6)	(S8) (LRF LRR R, MI I) (LRR K	R R, _RA 149B)	Indicators for Prob 2 cm Muck (A10 Coast Prairie Ro 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganeso Piedmont Flood Mesic Spodic (1) Red Parent Mal	plematic Hydric Soils ³ : D) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) T) (LRR K, L) w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) lplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) lerial (TF2) ark Surface (TF12)
	f hydrophytic vegeta ayer (if observed)		tland hydrology mus	t be prese	ent, unless	disturbed	or problematic.	
Type: Depth (inc	ches):						Hydric Soil Present	? Yes No
Remarks:								
								of.
							S	
8			*		*		20	
							ν •	

Site 3

Wetland 4-Upland Point South

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: <u>NIACARA/NIACARA</u> Sampling Date: <u>4/29</u>
State: <u>NY</u> Sampling Point Applicant/Owner: 56L EQUITIES Investigator(s): TOM CONNARE Section, Township, Range: Landform (hillslope, terrace, etc.): PLAIN Local relief (concave, convex, none): Slope (%): 0-5 Lat: 43.12 Soil Map Unit Name: ODESTA NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? NO Are "Normal Circumstances" present? Yes No Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes _____ No____ within a Wetland? Hydric Soil Present? Wetland Hydrology Present? Yes_ If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ___ Surface Soil Cracks (B6) Surface Water (A1) __ Water-Stained Leaves (89) ___ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) ___ Moss Trim Lines (B16) Saturation (A3) _ Marl Deposits (B15) __ Dry-Season Water Table (C2) Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) ___ Saturation Visible on Aerial Imagery (C9) Presence of Reduced Iron (C4) Drift Deposits (B3) ___ Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Geomorphic Position (D2) Iron Deposits (B5) __ Thin Muck Surface (C7) Shallow Aquitard (D3) ___ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Yes _____ No 🔀 __ Depth (inches): _____ Surface Water Present? Water Table Present? Yes ____ No _ Depth (inches): ____ Wetland Hydrology Present? Yes ____ No _ O Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: W4A - U

	- N - L (- B - L - L L - II	
Tree Stratum (Plot size:)	Absolute Dominant India <u>% Cover Species? St.</u>	
		Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant 3
3		
4		Percent of Dominant Species 33
		That Are OBL, FACW, or FAC: (A/B)
5		
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
15.0 <u>~</u>	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 151.)		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: /) 1. CORNUS FOEMINA	40 Y F	AC species x3 =
1		FACU species x4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
4		
5		Prevalence Index = B/A =
POINT TO THE PROPERTY OF THE P		
6		Rapid Test for Hydrophytic Vegetation
7		Dominance Test is >50%
15-1	40 = Total Cover	Prevalence index is ≤3.0 ¹
Herb Stratum (Plot size:)		Morphological Adaptations¹ (Provide supporting
1. SOLIDAGO CANADENSIS 2. POA PRATENSIS	10 Y FA	data in Remarks or on a separate sheet)
204 PRATENSIS	15 4 F	Problematic Hydrophytic Vegetation¹ (Explain)
3		Indicators of hydric soil and wetland hydrology must
4		
5		Definitions of Vegetation Strata:
6		
		Tree - Woody plants 5 in. (7.0 cm) of more in diameter
7		
8		1
9.		and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless
11		of size, and woody plants less than 3.28 ft tall.
12		Woody vines - All woody vines greater than 3.28 ft in
	25 = Total Cover	height.
Woody Vine Stratum (Plot size:)		V. C. G. G. C.
1		******
2		
3		
7		Vegetation
4		Present? Yes No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	
我		
¥5		T (**)
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Profile Doce	rintian: /Decaribe to	o the dan	th needed to docum	ont the i	ndicator	or confirm	the sheence	of indicators)
		o trie dep				or continu	the absence	or marcators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature:	Type ¹	Loc ²	Texture	Remarks
Janones								
10	104011/3	90	121100/1	1.4	A 7.00		1-2	
10	104/24/3	10	104K5/6	10			SICL	
				V				
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						8 - 1		
					. —			
*>								
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, CS	=Covere	d or Coate	ed Sand G		cation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:					and the second second second	Indicators	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov		(\$8) (LR	RR,		Muck (A10) (LRR K, L, MLRA 149B)
2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ipedon (A2)		MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)
_ Black His			Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		Loamy Mucky M Loamy Gleyed M			L, L)		Surface (S7) (LRR K, L)
	Below Dark Surface	(A11)	Depleted Matrix	C. S.	-1			ark Surface (S9) (LRR K, L)
	rk Surface (A12)	V,	Redox Dark Sur		i			anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark S					ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depressi					Spodic (TA6) (MLRA 144A, 145, 149B)
and the second second second second	edox (S5)							arent Material (TF2)
	Matrix (S6)		SAT					hallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, M	LRA 1491	3)				Other	(Explain in Remarks)
aladicators of	hydrophylic vegetati	on and w	etland hydrology mus	t he nres	ent unles	s disturber	l or problematic	
	ayer (if observed):	on and w	stiand mydrology mas	t be pres	ciit, uittos	a distuibed	To probleman	
Type:								
Depth (inc							Hydric Soil	Present? Yes No
Remarks:							1	
Kemarks.								
		* *						
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			32					
					54	37		
							5	
			**					
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SH23

Wetland 4-Wetland Point South

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region
Project/Site:SGLCity/County: NIAGARA NIAGARA sampling Date: 4/29/10
Applicant/Owner: SGL EQUITIES LLC State: NY Sampling Point: W 71
Investigator(s): TOM CONNARE Section, Township, Range:
0.11
04-004 04
Soil Map Unit Name: ODESSA S1L NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No
SMALL MARSH CONNECTED TO DITCH
SMALL MAKSA CONNECTED TO DITCH
SITE PHOTO 8
1000 Jan 14 (102) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Y High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Saturation (A3) Mail Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches): 0-2
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): O - Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Pde:
Remarks:
*

VEGETATION – Use scientific names of plant	VEGETATION - Use sci	entific names	of plants
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ampling Point: W4A-W

	Al-alda Basis and Indicator	
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
1		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.		Total Number of Dominant Species Across All Strata: (B)
3		
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5		. Macras observation, extrem
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
		FAC species x3 =
1		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
4		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
		Rapid Test for Hydrophytic Vegetation
7	90 = Total Cover	Dominance Test is >50%
x-1	= Total Cover	Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5') 1. TYPHA LATIFOLIA		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation ¹ (Explain)
2		- , , , , , , , , , , , , , , , , ,
3.		Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6		- - Was to start 2 is (7.6) as seen in discrete
7		
9.		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		Annual Programme and the Committee of th
12.		Woody vines – All woody vines greater than 3.28 ft in
	90 = Total Cover	height.
Woody Vine Stratum (Plot size:)		
1		-
2		-
3		Hydrophytic
4.	*	Vegetation
T	= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate		Laure Control
Remarks. (Include photo flumbers here of on a separate	sileet.)	

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**		
		100 - 100 -

Sampling Point: W4A-W

Profile Desc	ription: (Describe t	o the dep	th needed to documer	it the indicator or conf	irm the absence of inc	licators.)
Depth	Matrix		Redox F	eatures	_	
(inches)	Color (moist)	%	Color (moist)	% Type Loc2	Texture	Remarks
8	104R 4/1	100		D	514	•
	1011/1/1					
	V - 			No.		
						
						The second secon
¹Type: C=C	oncentration, D=Depl	letion, RM	=Reduced Matrix, CS=0	Covered or Coated Sand		: PL=Pore Lining, M=Matrix.
Hydric Soil						roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below S	Surface (S8) (LRR R,		(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B)			e Redox (A16) (LRR K, L, R)
	stic (A3)			(S9) (LRR R, MLRA 14	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)			eral (F1) (LRR K, L)	77	e (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surface	. (441)	Loamy Gleyed Ma Depleted Matrix (F			elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
	ark Surface (A12)	e (A11)	Redox Dark Surfa			nese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark Sur			oodplain Soils (F19) (MLRA 149B)
	Sleyed Matrix (S4)		Redox Depression	\$16 P.S. C. C.		ic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)				Red Parent	Material (TF2)
	Matrix (S6)					w Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149	3)		Other (Expla	ain in Remarks)
31 adiaptors	f bydranbydia yagalat	ion and w	atland hydralagy gyrat b	e present, unless distur	had ar problematic	
	Layer (if observed):		eliano nyorology must b	e present, unless distar	1	
Type:	Layer (ii observeu).					
17.901 0.8910-7878					Hydric Soil Pres	ent? Yes No
	ches):				tiyano con ries	
Remarks:					.*	
100						
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						4
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