Appendix 6: Wetland Delineation Report (2019)



Joint Permit Application Package Albany Port District Commission

Port of Albany Expansion Project



WETLANDS AND SURFACES WATERS DELINEATION REPORT

PORT OF ALBANY EXPANSION PROJECT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

JUNE 2019

PREPARED FOR

Albany Port District Commission

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1 PROJECT BACKGROUND

1.1 Introduction

McFarland Johnson, Inc. was retained by Albany Port District Commission to provide environmental services for the Port of Albany Development Project in the Town of Bethlehem, Albany Country, New York. A portion of these services included conducting wetlands and surface waters delineations of the proposed area of potential effect (Project Study Area).

The Project Study Area is as shown on the attached site figures and plans included in Appendix A and Appendix B.

2 METHODS

2.1 AGENCY RESOURCE INFORMATION

Prior to a field delineation survey of the Project Study Area (PSA), aerial photographs and various mapping resources were reviewed, including the following:

- a) US Geological Survey (USGS) Topographic Map (Delmar USGS 7.5 Minute Quadrangles) (Appendix A- Figure 1)
- b) New York Department of Environmental Conservation (NYSDEC) Freshwater Wetlands Map (Digitized New York State Regulatory Freshwater Wetlands for Albany County) (Appendix A- Figure 2)
- New York Department of Environmental Conservation (NYSDEC) Tidal Wetlands Map (Digitized New York State Tidal Wetlands - Upper Hudson River Estuary) (Appendix A- Figure 3)
- d) National Wetlands Inventory (NWI) Map prepared by the Fish and Wildlife Service (USFWS) (Appendix A- Figure 4)



- e) Natural Resources Conservation Service (NRCS) Web Soil Survey Maps (Appendix A- Figure 5)
- f) Federal Emergency Management Agency (FEMA) Floodplain Map (Appendix A- Figure 6)

2.2 FIELD DATA COLLECTION

The delineations of the wetlands within the 94.75-acre PSA were performed by McFarland Johnson on April 3-5 and April 11-12, 2019.

The wetland delineations were determined through field investigations of vegetation, soils and hydrology performed in accordance with the 1987 USACE Wetlands Delineation Manual (1987 USACE Manual), and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Regional Supplement), dated January 2012.

The wetland boundaries were surveyed using a hand-held Trimble GPS Geo7X unit with decimeter (10 cm/ 4 inch) post processing accuracy. USACE Wetland Determination Data Forms and photographs were also compiled. Further descriptions of the identified wetlands within the PSA are described in the subsequent subsections and on the Wetland Determination Data Forms.

3 RESULTS

3.1 AGENCY RESOURCES INFORMATION

A review of the most recent USGS topographic mapping of the PSA (Appendix A-Figure 1) indicated the presence of portions of the Normans Kill and Hudson River within and adjacent the PSA.

The New York State Freshwater Wetland mapping of the project (Appendix A-Figure 2) indicated the presence of NYSDEC mapped freshwater wetland FWW D-102 is located at its nearest limit approximately 435 feet east of the PSA, along the eastern bank of the Hudson River. No NYSDEC regulated freshwater wetlands are identified within 100 feet of the PSA.



Review of New York State Tidal Wetland mapping of the project area (Appendix A- Figure 3) indicated the presence of several small NYSDEC mapped tidal wetlands along the eastern shore of the Hudson River in the vicinity of the project area. No NYSDEC regulated tidal wetlands are identified within 300 feet of the PSA.

The NWI mapping of the project site (Appendix A- Figure 4) shows most of the PSA south of the Normans Kill mapped as emergent, scrub-shrub, and/or forested wetland.

Based on soils information provided by the NRCS (Appendix A- Figure 5), most of the PSA is mapped as Wayland Soils Complex (Wo) and Udorthents- loamy (Ug) soils. Wo soils have a 90% hydric soil presence rating, while Ug soils and all other soils mapped within the PSA have 0% hydric soil presence ratings.

Floodplain mapping of the project area (Appendix A- Figure 6) indicates the majority of PSA is mapped within a FEMA designated 100-year floodplain.

3.2 WETLANDS

A total of eight freshwater wetlands were identified and delineated within the 94.75-acre PSA. These wetlands are hereafter referred to as Wetlands 1, 3, 4, 5, 6, 7, 8, and 9. The boundaries of the wetlands are identified on the Wetlands and Surfaces Waters Delineation Plans (Appendix B). Additional information can be found in Appendix C- Wetland Determination Data Forms, and Appendix D-Wetland Photographs.

Wetlands 3, 4, 5, 6, 7, and 9 are predominately palustrine emergent (PEM) wetlands, while Wetlands 1 and 8, consist of PEM and palustrine forested (PFO) wetland cover types. Furthermore, Wetlands 3 and 4 are directly subject to tidal influences. Further information regarding the delineated wetlands is presented in the following table.



Wetlands within 94.75-Acre PSA						
Feature I.D. Feature Type Acres NYSDEC Jurisdiction				USACE Jurisdiction		
TA7-11 1 1	PEM	0.67	No	Yes		
Wetland 1	PFO	0.59	No	Yes		
Wetland 3	PEM	0.19	No	Yes		
Wetland 4	PEM	0.04	No	Yes		
Wetland 5	PEM	0.01	No	Yes		
Wetland 6	PEM	0.01	No	Yes		
Wetland 7	PEM	0.02	No	Yes		
717 1 10	PEM	0.19	No	Yes		
Wetland 8	PFO	0.57	No	Yes		
Wetland 9	PEM	0.04	No	Yes		

3.2.1 NYSDEC Jurisdiction

Based on the NYSDEC Freshwater Wetlands Map (Appendix A- Figure 2) and NYSDEC Tidal Wetlands Map (Appendix A- Figure 3), there are no NYSDEC regulated wetlands in the vicinity of the PSA. Based on this information, none of the delineated wetlands are regulated by the NYSDEC under Articles 24 or 25 of the Environmental Conservation Law (ECL).

3.2.2 USACE Jurisdiction

The United States Army Corps of Engineers regulates activities in wetlands that have a significant hydrological and ecological to traditional navigable waters (TNWs), interstate waters, and territorial seas under Section 404 of the Clean Water Act (CWA) and Sections 9 and 10 of the Rivers and Harbors Act (RHA) as defined under the Clean Water Rule (CWR).

All eight delineated wetlands are located within the FEMA mapped 100-year floodplains of the Normans Kill and Hudson, both Section 10 TNWs. Based on the



guidance promulgated under the CWR, all eight delineated wetlands should be regulated by the USACE under Section 404 of the CWA.

3.3 SURFACE WATERS

Two streams were identified within the PSA. These streams are referred to as Stream 1 (Hudson River) and Stream 2 (Normans Kill). Further information regarding the identified streams is presented in the following table.

Surface Waters within 94.75-Acre PSA							
Feature I.D. Feature Type Linear Feet NYSDEC USACE Jurisdiction Jurisdiction							
Stream 1 (Hudson River)	Perennial Tidal River	2,814	Yes	Yes			
Stream 2 (Normans Kill)	eam 2 Perennial 1.297 Yes Yes						

3.3.1 NYSDEC Jurisdiction

The portions of the Hudson River and Normans Kill within the project area have NYSDEC water classifications of Class C. Based on this information, these sections of waterbodies are not considered to be "Protected Streams" under Article 15 of the Environmental Conservation Law. However, the sections of the Hudson River and Normans Kill within the project area are considered to be "Navigable Waters of the State" under Article 15 of the Environmental Conservation Law.

NYSDEC Article 15 Jurisdictional Limits for "Navigable Waters of the State" are defined by the "mean high water" (MHW). The MHW is defined as the approximate average high water level for a given body of water at a given location, that distinguishes between predominantly aquatic and predominantly terrestrial habitat as determined, in order of use, by the following:

(l) available hydrologic data, calculations, and other relevant information concerning water levels (e.g. discharge, storage, tidal, and other recurrent water elevation data);



- (2) vegetative characteristics (e.g., location, presence, absence or destruction of terrestrial or aquatic vegetation);
- (3) physical characteristics (e.g., clear natural line impressed on a bank, scouring, shelving, or the presence of sediments, litter or debris); and
- (4) other appropriate means that consider the characteristics of the surrounding area."

The NYSDEC calculated MHW for the reaches of the Hudson River and Normans Kill present within the PSA based on data from NOAA Station 8518995- Albany Hudson River, located at latitude 42°39.0' and longitude 73°44.8', for the most current NOAA National Tidal Datum Epoch (1983-2001) is 4.16' NGVD29.

3.3.2 USACE Jurisdiction

The sections of the Hudson River and Normans Kill within the PSA area are considered to be Waters of the US (WOUS) under Section 404 of the Clean Water Act and Navigable Waters of the US under Section 10 of the Rivers and Harbors Act.

USACE Section 404 jurisdictional limits are defined by the "high tide line" (MHT) elevation. The "high tide line" is defined as the line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm. USACE guidelines allow for use of available hydrologic data, calculations, and other relevant information concerning water levels (e.g. discharge, storage, tidal, and other recurrent water elevation data) in defining the MHT elevations.



USACE Section 10 jurisdictional limits are defined by the "ordinary high water" (OHW). The OHW is defined as the line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas. USACE guidelines allow for use of available hydrologic data, calculations, and other relevant information concerning water levels (e.g. discharge, storage, tidal, and other recurrent water elevation data) in defining the OHW elevations. The previously discussed MHT elevation is considered to be the more restrictive (higher) regulative elevation limit in regard to USACE regulated activities, and due to similarities in definition and overlapping regulations, the USACE takes this precedence when defining regulatory limits under Section 10 of the CWA.

Based on publicly available data from United States Geological Survey (USGS) Station 01359139- Hudson River at Albany, located at latitude 42°38'46" and longitude 73°44'51", and the average of the highest recorded water elevations per day from April 1 to May 31 for years 2013 to 2017, the calculated MHT is 4.26' NGVD29. The USACE reserves the right to request field interpretations and inspections to define site specific MHT elevations.

4 SUMMARY

Based on the wetland delineation performed by McFarland Johnson, eight freshwater wetlands were identified and delineated within the 94.75-acre PSA. All eight delineated wetlands are located within the FEMA mapped 100-year floodplains of the Normans Kill and Hudson, both Section 10 TNWs. Based on guidance under the CWR, all eight delineated wetlands should be regulated by the USACE under Section 404 of the CWA. There are no NYSDEC regulated freshwater or tidal wetlands in the vicinity of the PSA, therefore none of the eight delineated wetlands should be regulated by the NYSDEC under Articles 24 or 25 of the ECL.

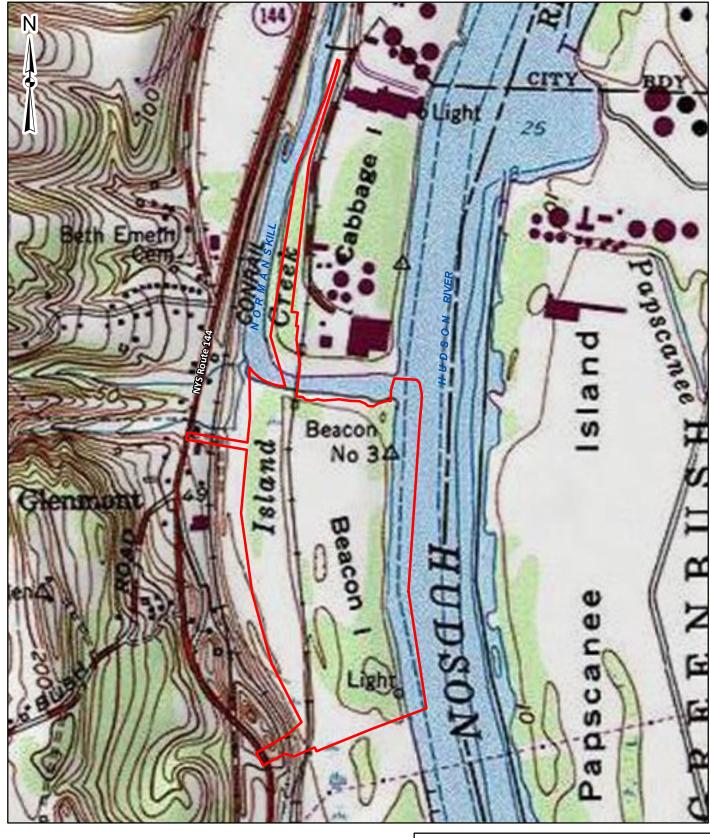
Two streams were identified within the PSA. The identified streams, Stream 1 (Hudson River) and Stream 2 (Normans Kill), are considered to be "Navigable Waters of the State" and regulated by the NYSDEC under Article 15 of the



Environmental Conservation Law. The sections of the Hudson River and Normans Kill within the PSA are considered to be WOUS under Section 404 of the Clean Water Act and Navigable Waters of the US under Section 10 of the Rivers and Harbors Act, and thereby regulated by the USACE.



APPENDIX A	



Legend

N:\18437.00 Port of Albany\Draw\GIS\WDR-Figure 1.mxd

Project Area

0 800 1,600 Feet

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

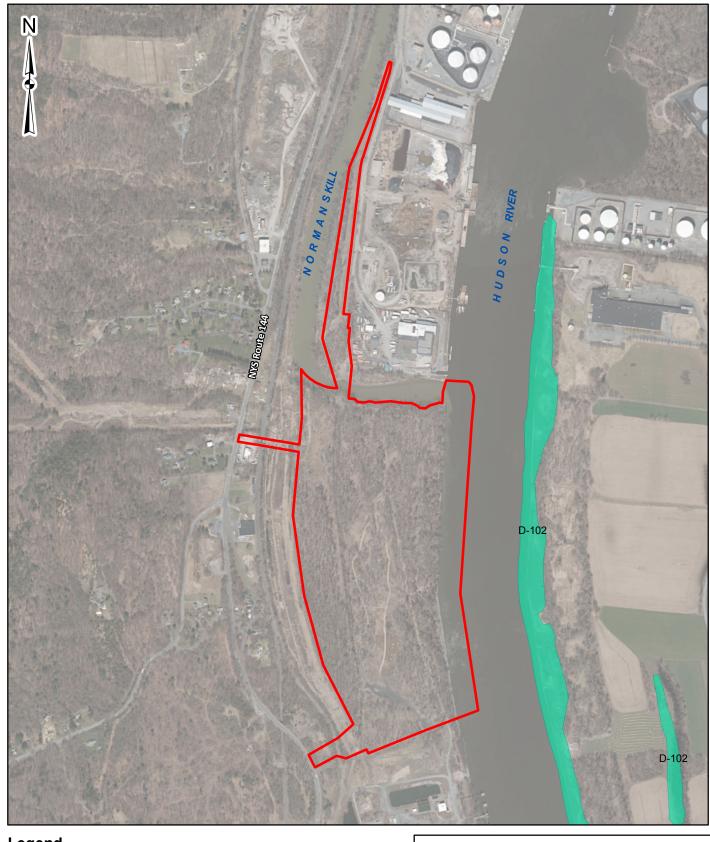
Soil Type provided by USDA Bodies of Water provided by NYS GIS Clearinghouse Project Area created by McFarland Johnson

PORT OF ALBANY EXPANSION PROJECT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

USGS TOPOGRAPHIC MAP

SCALE :	DATE:	FIGURE :
AS SHOWN	JUNE 2019	1
,		







N:\18437.00 Port of Albany\Draw\GIS\WDR-Figure 2A.mxd

Project Area 0 800 1,600

NYSDEC Freshwater Wetlands

Feet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye.

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NYSDEC Wetlands and Checkzones provided by CUGIR and NYSDEC
Bodies of Water and Tidal Wetlands provided by NYS GIS

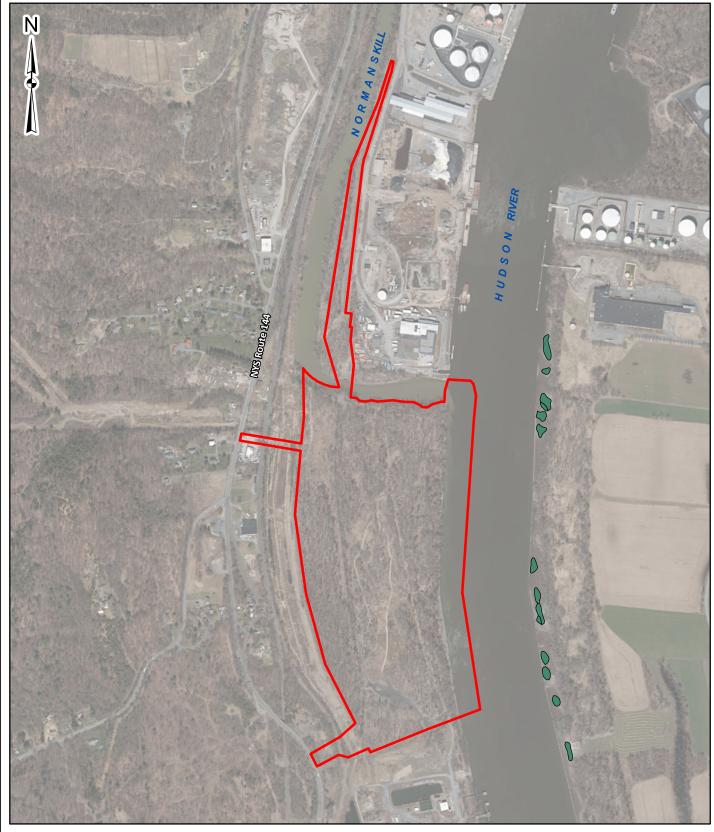
Bodies of Water and Tidal Wetlands provided by NYS Gl Clearinghouse Project Area created by McFarland Johnson

PORT OF ALBANY EXPANSION PROJECT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

NYSDEC FRESHWATER WETLANDS MAP

SCALE: DATE: FIGURE: FIGURE:





Legend

N:\18437.00 Port of Albany\Draw\GIS\WDR-Figure 3.mxd

Project Area

NYSDEC Tidal Wetlands

800 1,600 Feet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NYSDEC Wetlands and Checkzones provided by CUGIR

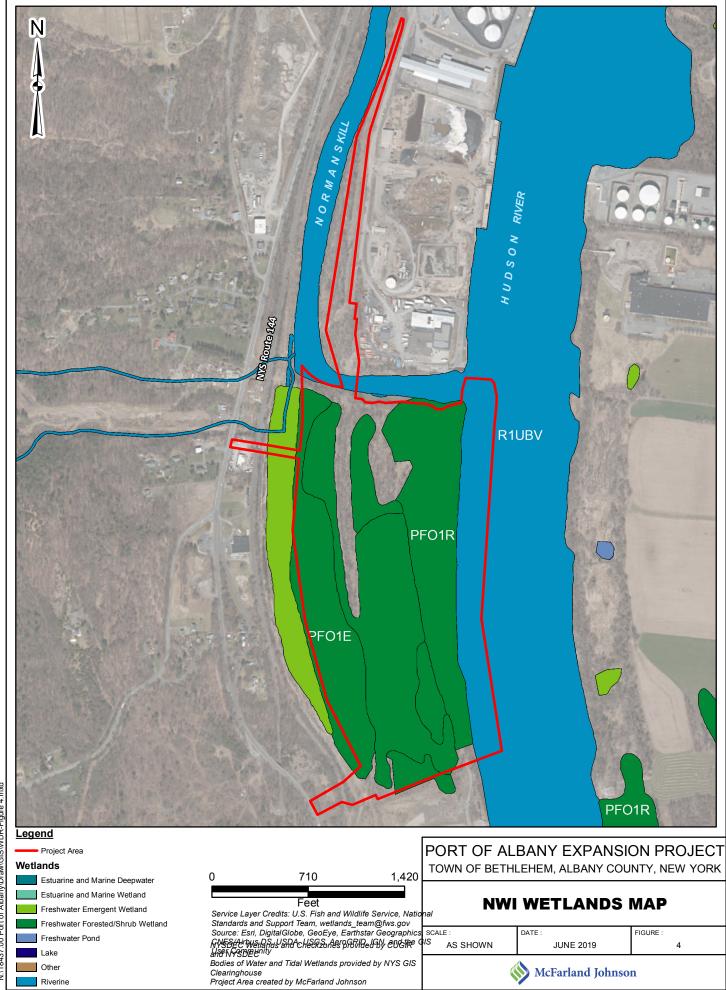
and NYSDEC Bodies of Water and Tidal Wetlands provided by NYS GIS Clearinghouse Project Area created by McFarland Johnson

PORT OF ALBANY EXPANSION PROJECT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

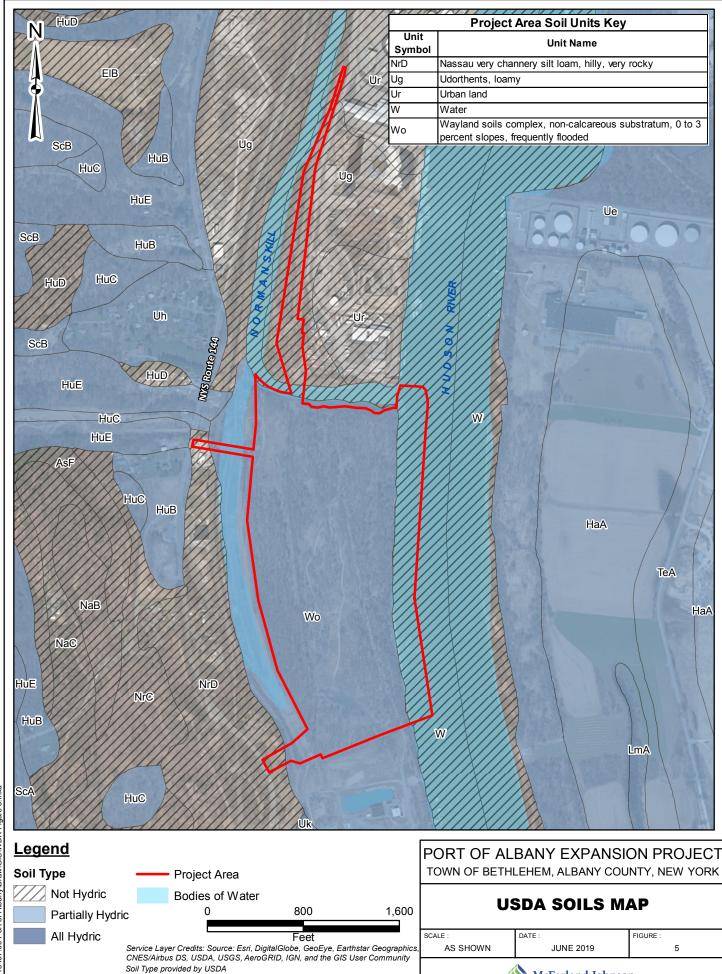
NYSDEC TIDAL WETLANDS MAP

SCALE: DATE: FIGURE: AS SHOWN JUNE 2019 3





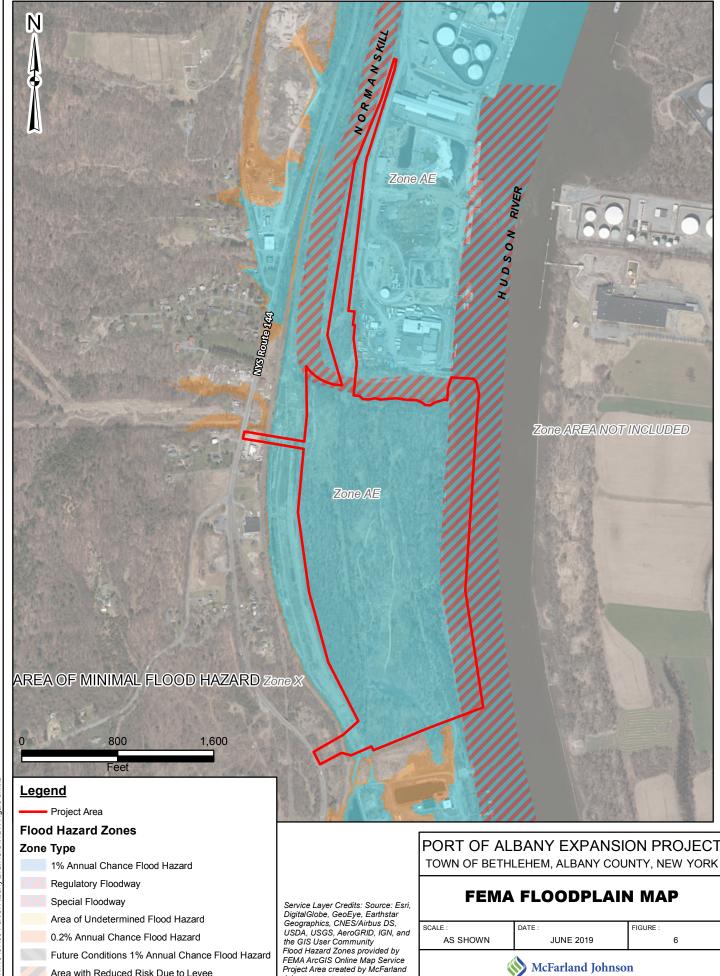
N:\18437.00 Port of Albany\Draw\GIS\WDR-Figure 4.mxd



McFarland Johnson

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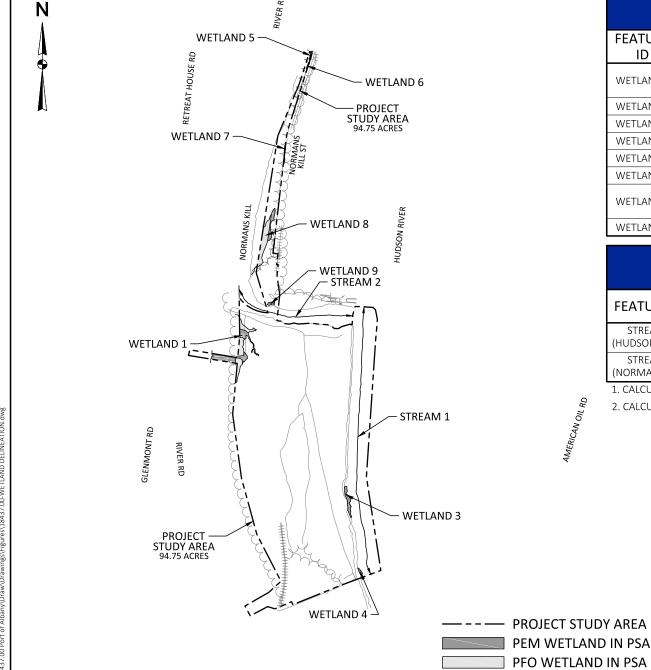
Bodies of Water provided by NYS GIS Clearinghouse Project Area created by McFarland Johnson



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Area with Reduced Risk Due to Levee

APPENDIX B

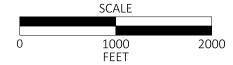


WETLANDS WITHIN 94.75 PROJECT STUDY AREA							
FEATURE FEATURE ACRES NYSDEC USACE REGULATED							
WETLAND 1	PEM	0.67	NO	YES			
WEILANDI	PFO	0.59	NO	YES			
WETLAND 3	PEM	0.19	NO	YES			
WETLAND 4	PEM	0.04	NO	YES			
WETLAND 5	PEM	0.01	NO	YES			
WETLAND 6	PEM	0.01	NO	YES			
WETLAND 7	PEM	0.02	NO	YES			
WETLAND 8	PEM	0.19	NO	YES			
WEILAND 8	PFO	0.57	NO	YES			
WETLAND 9	PEM	0.04	NO	YES			

SURFACE WATERS WITHIN 94.75 PROJECT STUDY AREA							
FEATURE ID FEATURE LINEAR NYSDEC USACE TYPE FEET REGULATED REGULATED REGULATED							
STREAM 1 (HUDSON RIVER)	PERRENIAL TIDAL RIVER	2,814	YES	YES			
STREAM 2 (NORMANS KILL)	PERRENIAL TIDAL STREAM	1,297	YES	YES			

1. CALCULATED MHW: 4.16' NGVD29

2. CALCULATED MHT: 4.26' NGVD29



NOTES:

 WETLAND BOUNDARIES DELINEATED AND SURVEYED VIA GPS BY MCFARLAND JOHNSON, INC., APRIL 2019.

PORT OF ALBANY EXPANSION

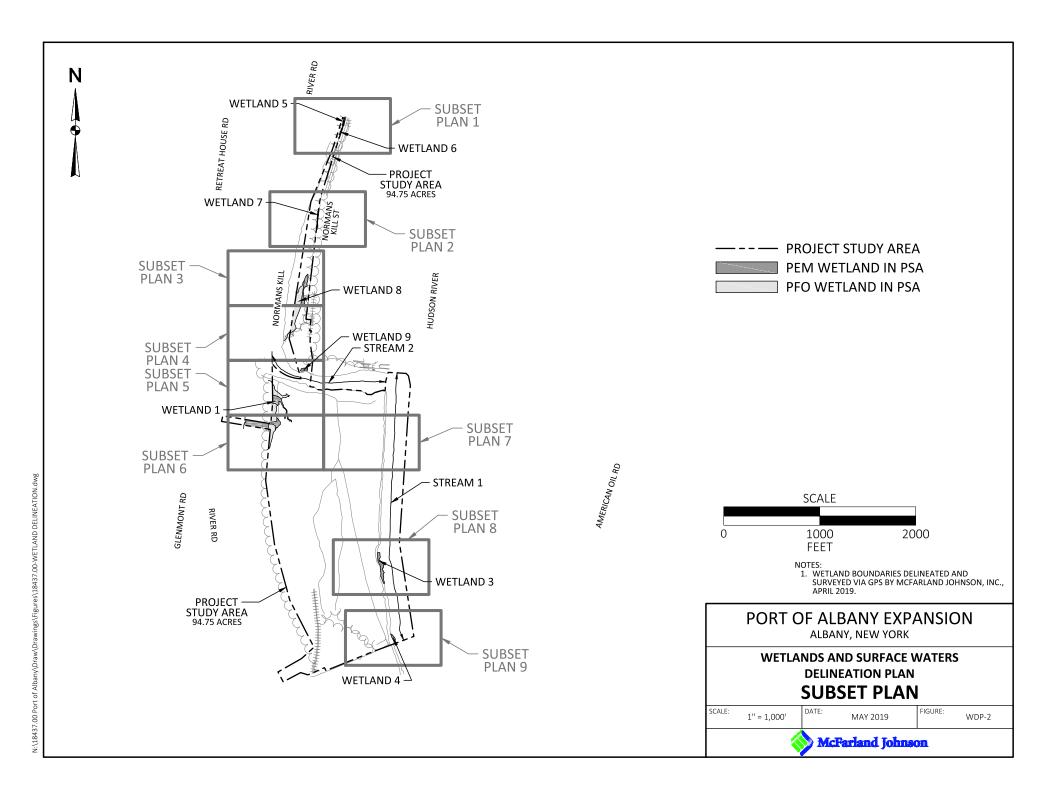
ALBANY, NEW YORK

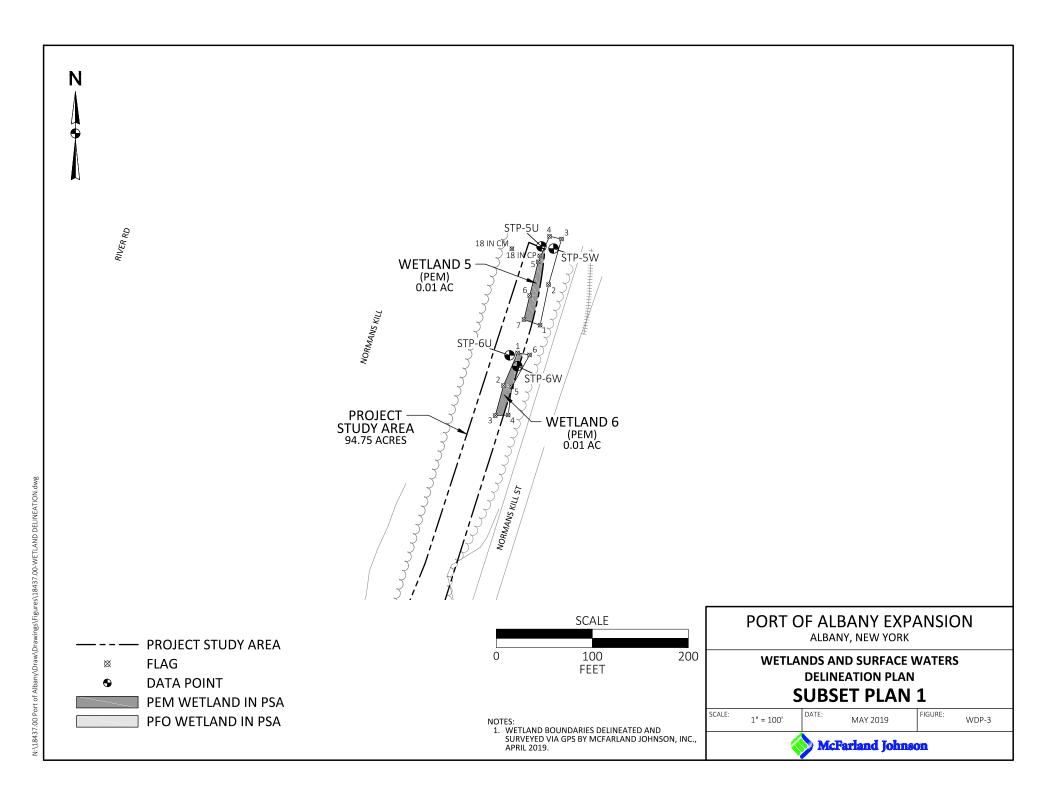
WETLANDS AND SURFACE WATERS
DELINEATION PLAN

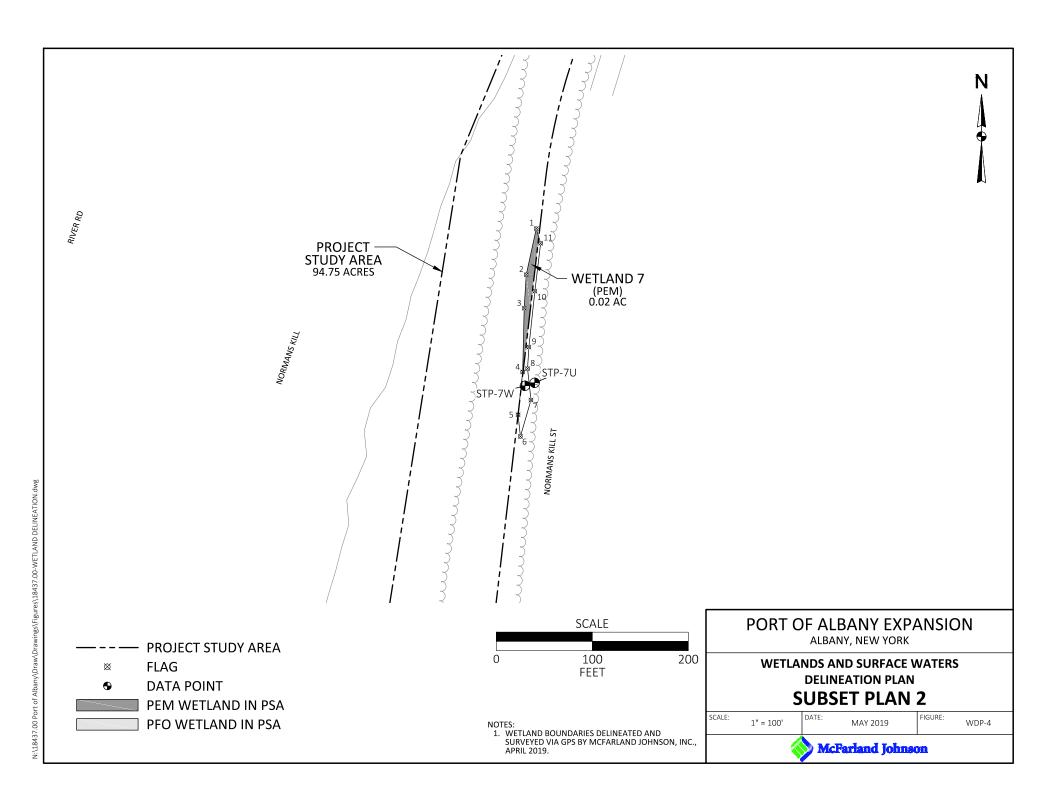
OVERALL PLAN

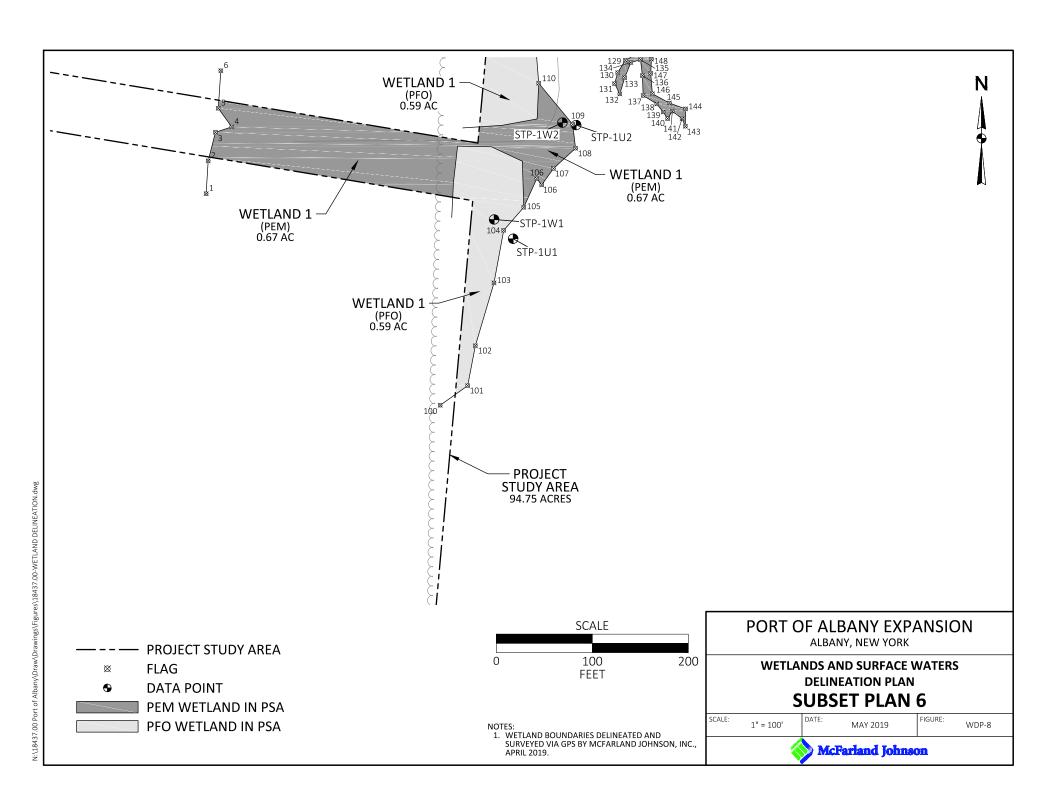
SCALE: 1" = 1,000' DATE: MAY 2019 FIGURE: WDP-1

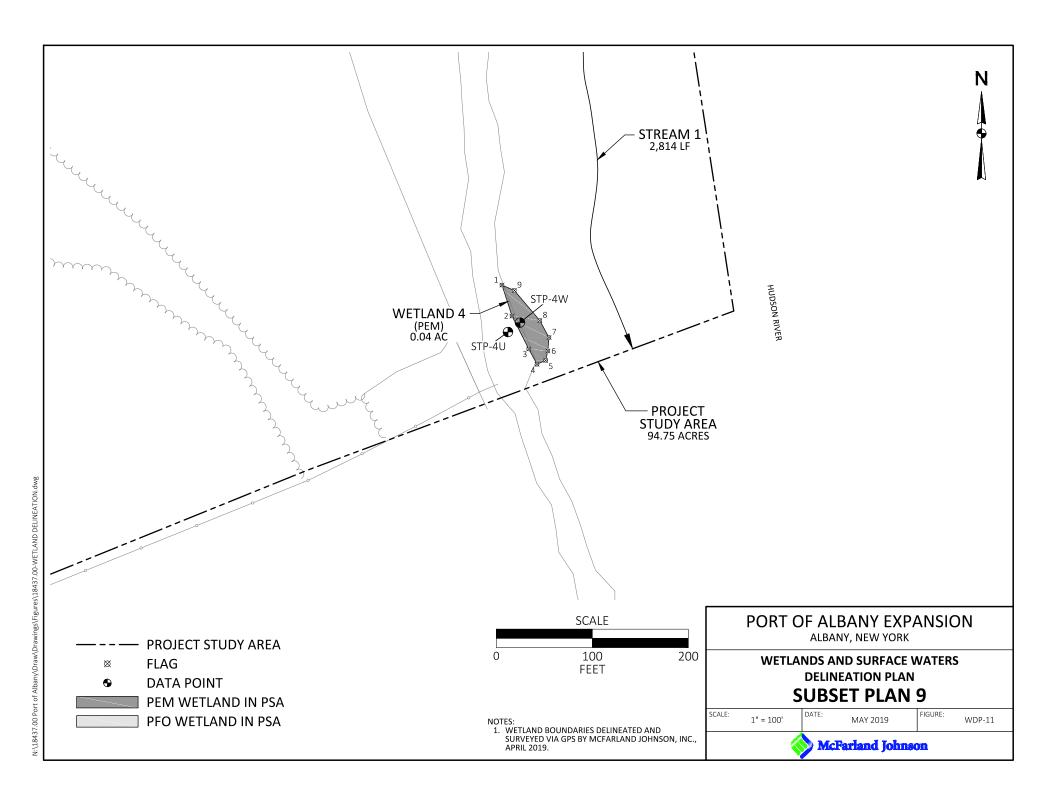












APPENDIX C	
AFFENDIAC	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-1U1
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): None Slope %: <1
	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None
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 Hydrologysignificantly distur	
Are Vegetation, Soil, or Hydrologynaturally 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 No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Tremains. (Explain alternative procedures here of 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 (
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 (
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	·
Water Table Present? Yes X No Depth (inches)	
Saturation Present? Yes X No Depth (inches)	
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
	- · · · · · · · · · · · · · · · · · · ·
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Rhus typhina	10	Yes	UPL		
Populus tremuloides	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)	
3 4.				Total Number of Dominant Species Across All Strata: 6 (B)	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)	
7				Prevalence Index worksheet:	
···	 15	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0	
1. Lonicera tatarica	2	Yes	FACU	FACW species 91 x 2 = 182	
2. Populus tremuloides	2	Yes	FACU	FAC species 9 x 3 = 27	
3. Fraxinus pennsylvanica	1	Yes	FACW	FACU species 19 x 4 = 76	
4.	·			UPL species 12 x 5 = 60	
5.				Column Totals: 131 (A) 345 (B)	
				Prevalence Index = B/A = 2.63	
7				Hydrophytic Vegetation Indicators:	
··	5	=Total Cover		Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%	
Phragmites australis	90	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹	
Poa pratensis	10	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting	
3. Solidago rugosa	5	No	FAC	data in Remarks or on a separate sheet)	
Setaria pumila	2	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
5.				Indicators of hydric soil and wetland hydrology must	
6.				be present, unless disturbed or problematic.	
7				Definitions of Vegetation Strata:	
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
12.					
	107	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in	
1. Celastrus orbiculatus	2	No	UPL	height.	
2. Vitis riparia	2	No	FAC		
3.				Hydrophytic Vegetation	
4.				Present? Yes No X	
	4	=Total Cover			
Remarks: (Include photo numbers here or on a separate	ate sheet.)				

Sampling Point: STP-1U1

SOIL Sampling Point STP-1U1

Profile Desc Depth	cription: (Describe Matrix	to the de	-	ument th x Featur		itor or co	onfirm the absence of indi	cators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	
2-12	10YR 2/1	100					Sandy	Black: 10YR 2-/1-
12-16	10YR 2/1	100					Sandy	
								
¹ Type: C=Co	oncentration, D=Dep	letion, RN	M=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Location: PL=Po	re Lining, M=Matrix.
Hydric Soil		,	,					oblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•				Redox (A16) (LRR K, L, R)
Black Hi	` '		Thin Dark Surf					reat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		ow Surface (S8) (LRR K, L)
	d Layers (A5) d Below Dark Surface	- (Δ11)	Loamy Mucky Loamy Gleyed			Χ K , L)		face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(((1)	Depleted Matri		1 2)			odplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		·6)			(TA6) (MLRA 144A, 145, 149B)
	Bleyed Matrix (S4)		Depleted Dark				Red Parent M	
Sandy R	ledox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K , L)			Other (Explain	in Remarks)
Dark Su	rface (S7)							
3Indiantors	f bydrophytic yogotot	بر امم مما	estland budgalage me	iot ho ni	ooont ur	loog digte	urbed or problematic.	
	Layer (if observed):	ion and v	retiand hydrology mi	ist be pr	esent, ur	iless dist	urbed or problematic.	
Type:	Layer (ii observea).							
Depth (ir	nches):						Hydric Soil Present?	Yes No X
Remarks:								
								eld Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://v	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-1W1
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, SoilX_, or Hydrology significantly disturl	
Are Vegetation, Soil, or Hydrologynaturally 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 X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: Wetland 1
Remarks: (Explain alternative procedures here or in a separate report.) Fill material (fly ash and bottom ash)	
HYDROLOGY Out to the first one of the second of the secon	
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	
X High Water Table (A2) Aquatic Fauna (B13) Approximation (A3) Approximation (B45)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Drift Deposits (B3) Sediment Deposits (B2) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>
	
<u> </u>	
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5)	
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	: 8
Saturation Present? Yes X No Depth (inches):	:7 Wetland Hydrology Present? YesX No
(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: STP-1W		
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
60	Yes	FACU	Number of Dominant Species		
20	Yes	FACW	That Are OBL, FACW, or FAC:3(
			Total Number of Dominant		
			Species Across All Strata: 5 (
			Percent of Dominant Species		
			That Are OBL, FACW, or FAC: 60.0%		
			Prevalence Index worksheet:		
80	=Total Cover		Total % Cover of: Multiply by:		
			OBL species 0 x 1 = 0		
20	Yes	FACU	FACW species 52 x 2 = 104		
2	No	FAC	FAC species 7 x 3 = 21		
2	No	FACU	FACU species 82 x 4 = 328		
2	No	FACW	UPL species 2 x 5 = 10		
			Column Totals: 143 (A) 463		
			Prevalence Index = B/A = 3.24		
			Hydrophytic Vegetation Indicators:		
26	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
			X 2 - Dominance Test is >50%		
20	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹		
10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide support		
5	No	FAC	data in Remarks or on a separate sheet)		
			Problematic Hydrophytic Vegetation ¹ (Explain		
			-		
			¹ Indicators of hydric soil and wetland hydrology m 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 he		
			Sapling/shrub – Woody plants less than 3 in. DB		
			and greater than or equal to 3.28 ft (1 m) tall.		
35	-Total Cover		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.		
	_10tal 00vcl		Woody vines – All woody vines greater than 3.28		
2	No	UPL	height.		
			Hydrophytic		
			Vegetation Present? Yes X No		
	80 20 2 2 2 2 2 10 5 35	% Cover Species? 60 Yes 20 Yes 80 =Total Cover 20 Yes 2 No 2 No 26 =Total Cover 20 Yes 10 Yes 5 No 35 =Total Cover	Species		

SOIL Sampling Point STP-1W1

Profile Desc Depth	ription: (Describe) Matrix	to the de	-	ıment tl x Featur		ator or co	onfirm the absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	
2-14	10YR 2/1	100					Sandy	Black: 10YR 2-/1-
14-16	10YR 2/1	100					Sandy	
				—				
								_
¹Type: C=Co	oncentration, D=Depl	etion, RN	/=Reduced Matrix, N	 1S=Masl	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil								oblematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	,				Redox (A16) (LRR K, L, R)
Black Hi	` '		Thin Dark Surf					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky			-		llow Surface (S8) (LRR K, L) Irface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed			κ κ, L)		ese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(7(11)	Depleted Matri		1 2)			podplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			c (TA6) (MLRA 144A, 145, 149B)
	Bleyed Matrix (S4)		Depleted Dark					Material (F21)
Sandy R	ledox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			X Other (Explai	n in Remarks)
Dark Su	rface (S7)							
3Indiantors	f bydrophytic ycestot	:aa aad u	etland budralage me	ot ha nu	occupt iii	ologo diot	urbed or problematic.	
	Layer (if observed):	ion and v	vetiand hydrology mi	ist be pr	esent, ur	iless dist	urbed or problematic.	
Type:	Layer (ii observea).							
Depth (ir	nches):						Hydric Soil Present?	Yes No
Remarks:								
This data for								ield Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	
Fill material ((fly ash and bottom a	sh) funct	ioning as hydric soil					
· ·····································	() aon ana zonom a	,	ioning actifallocon					

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-1U2
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, SoilX_, or Hydrology significantly distur	
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 No X	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Fill materials (fly ash and bottom ash)	
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 (I	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 (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
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)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	: 14 Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Demodes	
Remarks:	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
•				Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
-				
· ,				Total Number of Dominant
				Species Across All Strata: 2 (B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0% (A/B
				Prevalence Index worksheet:
·				
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')			OBL species 0 x 1 = 0
. Rhus typhina	5	Yes	UPL	FACW species 110 x 2 = 220
				FAC species 5 x 3 = 15
-				
		· 		FACU species 0 x 4 = 0
				UPL species 5 x 5 = 25
i				Column Totals: 120 (A) 260 (B)
				Prevalence Index = B/A = 2.17
-		-		
·				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
. Phragmites australis	100	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Impatiens capensis	10	No	FACW	4 - Morphological Adaptations ¹ (Provide supportin
· ·				data in Remarks or on a separate sheet)
3. Solidago rugosa	5	No	<u>FAC</u>	
ł				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
S				be present, unless disturbed or problematic.
_				Definitions of Vegetation Strata:
		-		Definitions of Vegetation Strata.
3				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				, , , , , , , , , , , , , , , , , , , ,
Z				Herb – All herbaceous (non-woody) plants, regardless
	115	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:15')			Woody vines – All woody vines greater than 3 28 ft in
)			Woody vines – All woody vines greater than 3.28 ft in height.
)			
2.)			
)			height. Hydrophytic Vegetation
2.)			height. Hydrophytic

SOIL Sampling Point STP-1U2

	ription: (Describe t	to the de	-			itor or co	onfirm the absence of indi	cators.)
Depth	Matrix			x Featur		. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/2	100					Loamy/Clayey	
3-9	10YR 2/1	100					Sandy	
9-16	10YR 2/1	100					Sandy	Black: 10YR 2-/1-
1							2	
	oncentration, D=Depl	etion, RN	M=Reduced Matrix, N	/IS=Masi	ked Sand	l Grains.		re Lining, M=Matrix.
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		oblematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		CC (OO) (I	LIXIX IX,		Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	•	(LRR R	MLRA 1		eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dark Sur	face (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri					odplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su					(TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark				Red Parent M	
	edox (S5)		Redox Depress		3)			Dark Surface (F22)
	Matrix (S6) face (S7)		Marl (F10) (LR	K N, L)			Other (Explain	in Remarks)
— Daik Sui	lace (ST)							
³ Indicators of	f hydrophytic vegetati	ion and w	vetland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes No
Remarks:								
	m is revised from No 2015 Errata. (http://w							eld Indicators of Hydric Soils,
V C131011 7.0,	2010 Enata. (http://w	ww.iii03.	usua.gov/internet/1	JL_DOC	OWILIVI	0/111031-12	2p2_001200.d00x)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-1W2
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, SoilX_, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 1
Fill material (fly ash and bottom ash)	
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 (E	
X 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 (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
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 Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	: <u></u> -
Water Table Present? Yes X No Depth (inches):	: <u>8</u>
Saturation Present? Yes X No Depth (inches):	8 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
l .	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 = 20
1. Fraxinus pennsylvanica	1	No	FACW	FACW species 101 x 2 = 202
2.				FAC species 2 x 3 = 6
3				FACU species 2 x 4 = 8
4				UPL species 2 x 5 = 10
5.				Column Totals: 127 (A) 246 (B)
6.				Prevalence Index = B/A = 1.94
7.				Hydrophytic Vegetation Indicators:
	1	=Total Cover	•	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Phragmites australis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
	20	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
3. Solidago canadensis	2	No	FACU	
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All back as a second of a second of a landa as a second of
	122	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:15')				Woody vines – All woody vines greater than 3.28 ft in
Celastrus orbiculatus	2	No	UPL	height.
2. Vitis riparia	2	No	FAC	
3.				Hydrophytic Vegetation
				Present? Yes X No
4.				
4.	4	=Total Cover		

Sampling Point: STP-1W2

SOIL Sampling Point STP-1W2

Profile Desc Depth	ription: (Describe) Matrix	to the de	-	ıment tl x Featur		itor or co	onfirm the absence of indica	ators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	
2-14	10YR 2/1	100					Sandy	Black: 10YR 2-/1-
14-16	10YR 2/1	100					Sandy	
			-					
¹Type: C=Ce	oncentration, D=Depl	etion, RN	M=Reduced Matrix, N	1S=Masl	ked Sand	Grains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Prob	olematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		0) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	,				edox (A16) (LRR K, L, R)
Black Hi	` '		Thin Dark Surf					eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky			-		w Surface (S8) (LRR K, L) ace (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed			(I(, L)		e Masses (F12) (LRR K, L, R)
	ark Surface (A12)	, (, , , ,)	Depleted Matri		. –,			dplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Mat	terial (F21)
	edox (S5)		Redox Depress		8)			ark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			X Other (Explain i	in Remarks)
Dark Su	rface (S7)							
³ Indicators o	f hydrophytic vegetat	ion and v	vetland hydrology mu	ıst be pr	esent. ur	nless distr	urbed or problematic.	
	Layer (if observed):		ionana nyarotogy mi	БО р.			and an problemation	
Type:								
Depth (in	nches):						Hydric Soil Present?	Yes X No
Remarks:								
							2.0 to include the NRCS Field	d Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs	usda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	
Fill material	(fly ash and bottom a	sh) funct	ioning as hydric soil					

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-3U
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None
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 distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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 (I	
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 (
Sediment Deposits (B2) Oxidized Rhizospheres (B2)	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)	
<u> </u>	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

EGE	TATION – Use scientific names of pla	ants.			Sampling Point:	STP-3U
ree St	tratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
. <u>Ac</u>	cer negundo	40	Yes	FAC	Number of Dominant Species	
2. Ac	cer saccharinum	20	Yes	FACW	That Are OBL, FACW, or FAC:	4 (A)
s. Rh	namnus cathartica	5	No	FAC	Total Number of Dominant	
ı. <u> </u>					Species Across All Strata:	6 (B)
5.					Persont of Dominant Species	
S					Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)
7. <u> </u>					Prevalence Index worksheet:	
		65	=Total Cover		Total % Cover of: Mu	ultiply by:
Sapling	g/Shrub Stratum (Plot size: 15')		*		OBL species 0 x 1 =	0
	namnus cathartica	20	Yes	FAC	FACW species 52 x 2 =	104
	onicera morrowii	5	No	FACU	FAC species 65 x 3 =	195
3. <i>Fra</i>	axinus pennsylvanica	2	No	FACW	FACU species 55 x 4 =	220
4.					UPL species 22 x 5 =	110
'' — 5.					Column Totals: 194 (A)	629 (B)
5. <u>—</u> 6.					Prevalence Index = B/A =	3.24
7. — 7.					Hydrophytic Vegetation Indicators:	
		27	=Total Cover		1 - Rapid Test for Hydrophytic Ve	
Herb <u>S</u> ⁴	stratum (Plot size: 5')				X 2 - Dominance Test is >50%	9
	liaria petiolata	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹	
	persia virginica	30	Yes	FACW	4 - Morphological Adaptations ¹ (P	rovide supporting
	ackelia virginiana	10	No	FACU	data in Remarks or on a separa	
	geratina altissima	10	No	FACU	Problematic Hydrophytic Vegetati	on ¹ (Explain)
	ubus occidentalis	2	No	UPL	1.	
6. <u>7.0</u>					¹ Indicators of hydric soil and wetland he present, unless disturbed or proble	
7.					Definitions of Vegetation Strata:	
3					Tree – Woody plants 3 in. (7.6 cm) or	more in
9					diameter at breast height (DBH), rega	
10.					Sapling/shrub – Woody plants less the	han 3 in DBH
11					and greater than or equal to 3.28 ft (1	
12.					Herb – All herbaceous (non-woody) pl	lants regardless
		82	=Total Cover		of size, and woody plants less than 3.2	
Noody	Vine Stratum (Plot size:15')				Woody vines – All woody vines great	er than 3.28 ft in
1. <u>Ce</u>	elastrus orbiculatus	20	Yes	UPL	height.	
2						
3.					Hydrophytic Vegetation	
4.					Present? Yes X No	<u></u>
_		20	=Total Cover			
	ks: (Include photo numbers here or on a sepa		_			

SOIL Sampling Point STP-3U

	-	to the de	-			tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			x Featur		. 2	- .	D
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	_
2-16	10YR 3/1	100					Loamy/Clayey	
-					-			
						·		
-								
¹ Type: C=Ce	oncentration, D=Depl	etion, RN	M=Reduced Matrix, M	/IS=Masl	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B)			Coast Prairie	e Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surf					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		elow Surface (S8) (LRR K, L)
	d Layers (A5)	(444)	Loamy Mucky			R K, L)		urface (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	e (A11)	Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Matri Redox Dark Su		.6)			oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark					Material (F21)
	Redox (S5)		Redox Depress					Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			in in Remarks)
Dark Su	rface (S7)						<u>—</u>	
	f hydrophytic vegetat	ion and v	vetland hydrology mu	ıst be pr	esent, ur	less dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present?	Yes No_X_
Remarks:								
								ield Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usua.gov/internet/F3	ב_טטנ	OIVIEN I	5/1105142	2p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19				
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-3W				
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem				
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): None Slope %: <1				
	Long: Datum: NAD 83				
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: PEM				
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 distur					
Are Vegetation , Soil , or Hydrologysignificantly distant					
					
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 X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 3				
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 ((B9) Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13)	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 In	ron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)Recent Iron Reduction in	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 Remark	rks) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches)	(<u></u> _				
Water Table Present? Yes X No Depth (inches)	: 12				
Saturation Present? Yes X No Depth (inches)	: _ 6 Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: STP-3W Absolute Dominant Indicator Tree Stratum (Plot size: _____) % Cover Species? Status **Dominance Test worksheet:** Number of Dominant Species That Are OBL, FACW, or FAC: (A)

3. 4.		-		Total Number of Dominant Species Across All Strata:	2	(B)
5.				Opecies Actoss All Strata.		— (D)
6				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B)
7		-		Prevalence Index worksheet:	100.070	_(/(D)
··		=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15')		-			1 = 50	
1				· ·	2 = 0	
2.					3 = 0	
3.				· · · · · · · · · · · · · · · · · · ·	4 = 0	
4.		. ,		-	5 = 0	
5.					A) 50	(B)
6.				Prevalence Index = B/A =	1.00	``
7.		<u> </u>		Hydrophytic Vegetation Indicat	tors:	
		=Total Cover		1 - Rapid Test for Hydrophyti	ic Vegetation	
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%	ı	
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹	1	
2. Typha angustifolia	20	Yes	OBL	4 - Morphological Adaptation	ıs ¹ (Provide su	pporting
3.				data in Remarks or on a s	eparate sheet)
4.				Problematic Hydrophytic Veg	getation ¹ (Expl	ain)
5.				¹ Indicators of hydric soil and wetl	and hydrology	must
6.				be present, unless disturbed or p		
7				Definitions of Vegetation Strate	a:	
8.		,		Tree – Woody plants 3 in. (7.6 cr	m) or more in	
9		<u> </u>		diameter at breast height (DBH),		height.
10		<u> </u>		Sapling/shrub – Woody plants le	ess than 3 in.	DBH
11				and greater than or equal to 3.28		
12				Herb – All herbaceous (non-woo	dy) plants, reg	ardless
-	50	=Total Cover		of size, and woody plants less the	an 3.28 ft tall.	
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines	greater than 3	.28 ft in
1		<u> </u>		height.		
2				Hydrophytic		
3		,		Vegetation		
4		<u> </u>		Present? Yes X	No	
		=Total Cover				

SOIL Sampling Point STP-3W

		o the de	-			ator or co	onfirm the absence of	f indicators.)
Depth	Matrix			r Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/1	90	7.5YR 3/4	10	C	M	Loamy/Clayey	Prominent redox concentrations
							 -	_
							 .	
¹ Type: C=Co	oncentration, D=Depl	etion, RN	1=Reduced Matrix, M	IS=Masl	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil								or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B))	. , ,			rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I			-		k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	, ,	Depleted Matrix		•			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		·6)			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	B)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Su	face (S7)							
_								
³ Indicators of	hydrophytic vegetati	ion and w	etland hydrology mu	st be pr	esent, ur	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Preser	nt? Yes No
							,	<u> </u>
Remarks:	m is revised from No	rthcentra	l and Northeast Regi	onal Su	nnlemen	t Version	2.0 to include the NPC	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							55 Field indicators of Frydric Solls,
,	(g					
Fill material (fly ash and bottom a	sh) functi	oning as hydric soil					

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-4U
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None
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 distur	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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 (I	
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 (
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Iro	
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)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1. Fraxinus pennsylvanica	30	Species? Yes	Status FACW	Dominance Test worksneet:
	20	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Acer saccharinum	-	. ——		That Are OBL, FACW, or FAC:3 (A)
 Betula populifolia Rhamnus cathartica 	<u>5</u> 	No No	FAC FAC	Total Number of Dominant Species Across All Strata: 4 (B)
5.		INO	TAC	Species Across Air Strata.
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7				Prevalence Index worksheet:
··	 57	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 55 x 2 = 110
2				FAC species 7 x 3 = 21
2				FACU species 0 x 4 = 0
4.				UPL species 20 x 5 = 100
5.				Column Totals: 82 (A) 231 (B)
6.				Prevalence Index = B/A = 2.82
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		_		X 2 - Dominance Test is >50%
Phragmites australis	5	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.	•			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
Celastrus orbiculatus	20	Yes	UPL	height.
2.				Undrombatio
3.				Hydrophytic Vegetation
4.		<u> </u>		Present? Yes X No No
	20	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: STP-4U

SOIL Sampling Point STP-4U

	-	to the de	-			tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			x Featur		. 2	- .	D
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	_
2-16	10YR 3/1	100					Loamy/Clayey	
-								
						·		
-								
¹ Type: C=Ce	oncentration, D=Depl	etion, RN	M=Reduced Matrix, M	/IS=Masl	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B)			Coast Prairie	e Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surf					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		elow Surface (S8) (LRR K, L)
	d Layers (A5)	(444)	Loamy Mucky			R K, L)		urface (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	e (A11)	Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Matri Redox Dark Su		.6)			oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark					Material (F21)
	Redox (S5)		Redox Depress					Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			in in Remarks)
Dark Su	rface (S7)						<u>—</u>	
	f hydrophytic vegetat	ion and v	vetland hydrology mu	ıst be pr	esent, ur	less dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present?	Yes No_X_
Remarks:								
								ield Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usua.gov/internet/F3	ב_טטנ	OIVIEN I	5/1105142	2p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19						
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-4W						
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem						
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): None Slope %: <1						
	Long: Datum: NAD 83						
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: PEM						
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 distur							
Are Vegetation, Soil, or Hydrology naturally problems							
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 X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 4						
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 ((B9) Drainage Patterns (B10)						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced In	<u> </u>						
Algal Mat or Crust (B4) Recent Iron Reduction in							
Iron Deposits (B5) Thin Muck Surface (C7)	7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):							
Water Table Present? Yes X No Depth (inches):							
Saturation Present? Yes X No Depth (inches):	: 0 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							
Remarks.							

VEGETATION – Use scientific names of plants. Sampling Point: STP-4W Absolute Dominant Indicator Species? <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 2 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' OBL species x 1 = Salix nigra **FACW** species 90 x 2 = 0 2. FAC species x 3 = 0 0 3. FACU species x 4 = 0 4. **UPL** species 0 x 5 = 0 5. Column Totals: 95 185 Prevalence Index = B/A =1.95 6. **Hydrophytic Vegetation Indicators:** 7. 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% 1. Phragmites australis Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. 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 90 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15' Woody vines - All woody vines greater than 3.28 ft in 1. height. 2. Hydrophytic 3. Vegetation Present? Yes X No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point STP-4W

Depth	Matrix			x Featur			onfirm the absence of indi	•
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/1	100					Sandy	
6-16	10YR 3/1	85	10YR 3/4	15	<u>C</u>	<u>M</u>	Loamy/Clayey	
				_		_		
		 -						
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL=Po	re Lining, M=Matrix.
Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sun Restrictive I	(A1) pipedon (A2)		Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surface sions (F8 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Muck (A Coast Prairie 5 cm Mucky P Polyvalue Bele Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	Dark Surface (F22)
Type: _ Depth (ir	nches):						Hydric Soil Present?	Yes No
Version 7.0,	m is revised from Nor 2015 Errata. (http://w (fly ash and bottom as	ww.nrcs.u	isda.gov/Internet/FS					eld Indicators of Hydric Soils,

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-5U
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	al relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Urban land (Ur)	NWI classification: None
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	
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced I	
Algal Mat or Crust (B4) — Recent Iron Reduction	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

VEGETATION – Use scientific names of p				Sampling Point: STP-5U
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')			OBL species 0 x 1 = 0
1. Lonicera morrowii	70	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 2 x 3 = 6
3.				FACU species 77 x 4 = 308
1				UPL species 2 x 5 = 10
5.				Column Totals: 81 (A) 324 (B)
				Prevalence Index = B/A = 4.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
4 0-1/	5	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Solidago candensis Allium vineale	2		FACU	4 - Morphological Adaptations ¹ (Provide supporting
2		163	TACO	data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation ¹ (Explain)
				Froblematic Hydrophytic Vegetation (Explain)
	-			¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.	-			and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	7	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')			Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	2	No	<u>FAC</u>	height.
2. Celastrus orbiculatus	2	No	UPL	Hydrophytic
3.				Vegetation
				Present?
4.				
4	4	=Total Cover		

SOIL Sampling Point STP-5U

Depth (inches) Color (Matrix	Rado					
(inches) Color (x Featur		1 2	- .	
		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
<u>0-7</u> 10YR						Loamy/Clayey	
7-16 10YR	2 3/2 100					Loamy/Clayey	
						_	
	_						
¹ Type: C=Concentration	n, D=Depletion, R	M=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil Indicators:	•	·					oblematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Belo	w Surfac	ce (S8) (I	_RR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)			Coast Prairie	Redox (A16) (LRR K, L, R)
Black Histic (A3)		Thin Dark Surf				49B)5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A		High Chroma S			-		ow Surface (S8) (LRR K, L)
Stratified Layers (A5		Loamy Mucky			R K, L)		rface (S9) (LRR K, L)
Depleted Below Dar		Loamy Gleyed		F2)			ese Masses (F12) (LRR K, L, R)
Thick Dark Surface Sandy Mucky Miner		Depleted Matri Redox Dark St		(e)			odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matri		Depleted Dark				Red Parent M	
Sandy Redox (S5)	X (O-1)	Redox Depress					Dark Surface (F22)
Stripped Matrix (S6)		Marl (F10) (LR		-,		Other (Explain	
Dark Surface (S7)			, ,				,
_							
³ Indicators of hydrophyti	c vegetation and	wetland hydrology mu	ust be pr	esent, ur	less dist	urbed or problematic.	
Restrictive Layer (if ob	served):						
Туре:							
Depth (inches):						Hydric Soil Present?	Yes No <u>X</u>
Remarks:							
							eld Indicators of Hydric Soils,
Version 7.0, 2015 Errata	i. (http://www.nrcs	s.usda.gov/Internet/F	SE_DOC	UMENT	S/nrcs142	2p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-5W
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): Concave Slope %: <1
	Long: Datum: NAD 83
Soil Map Unit Name: Urban land (Ur)	NWI classification: PEM
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 distur	<u> </u>
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling 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 X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 5
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) X Water-Stained Leaves (I	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction ir	
Iron Deposits (B5) — Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	:0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: STP-5W Absolute Dominant Indicator Tree Stratum (Plot size: 30') % Cover Species? Status **Dominance Test worksheet: Number of Dominant Species** That Are OBL, FACW, or FAC: (A)

3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
				That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:
7		Total Cause		
		_=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 110 x 1 = 110
1.				FACW species 0 x 2 = 0
2		-		FAC species 0 x 3 = 0
3		-		FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 110 (A) 110 (B)
6				Prevalence Index = B/A = 1.00
7				Hydrophytic Vegetation Indicators:
		_=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Typha angustifolia	100	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	10	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')		-		Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-)		

US Army Corps of Engineers

SOIL Sampling Point STP-5W

Depth	Matrix			x Featur			onfirm the absence of indic	,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/1	100					Loamy/Clayey	
5-16	10YR 4/1	90	10YR 4/6	10	<u>C</u>	M	Loamy/Clayey	
							-	
¹Type: C=Co	oncentration, D=Deple	etion, RN	/=Reduced Matrix, N	MS=Mas	ked San	d Grains.	² Location: PL=Poi	re Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pro	oblematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B	•	\	MI DA 1		Redox (A16) (LRR K, L, R)
Black Hi	n Sulfide (A4)		Thin Dark Surf High Chroma S					eat or Peat (S3) (LRR K, L, R) bw Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky			-		face (S9) (LRR K, L)
		(A11)	Loamy Gleyed			it it, =/		se Masses (F12) (LRR K, L, R)
 :			X Depleted Matri		–,			odplain Soils (F19) (MLRA 149B)
			Redox Dark Su		- 6)			(TA6) (MLRA 144A, 145, 149B)
			Depleted Dark	Surface	e (F7)		Red Parent Ma	aterial (F21)
Sandy R	edox (S5)		Redox Depres	Redox Depressions (F8)			Very Shallow I	Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	Marl (F10) (LRR K, L)			Other (Explain	in Remarks)
Dark Su	rface (S7)							
³ Indicators of	f hydrophytic vegetation	on and v	vetland hydrology m	ust be pr	resent. ui	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes No
Remarks:								
	m is revised from Nor 2015 Errata. (http://w							eld Indicators of Hydric Soils,
			•			5 , 6		
Fill material ((fly ash and bottom as	sh) functi	oning as hydric soil					

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-6U
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	al relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Urban land (Ur)	NWI classification: None
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	
Are Vegetation, Soil, or Hydrology naturally problen	
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3)Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction This Must Confere (CS)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
? Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: STP-6U Absolute Dominant Indicator Species? <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 0 (A) 3.

Total Number of Dominant 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' **OBL** species x 1 = Lonicera morrowii 100 **FACW** species 0 x 2 = 0 2. FAC species x 3 = 0 102 3. FACU species x 4 = 408 4. **UPL** species 0 x 5 = 0 5. Column Totals: 102 408 Prevalence Index = B/A =4.00 6. **Hydrophytic Vegetation Indicators:** 7. 100 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% 1. Allium vineale **FACU** 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. 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 2 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15' Woody vines - All woody vines greater than 3.28 ft in 1. height. 2. Hydrophytic 3.

=Total Cover

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

Yes ____

No X

Vegetation

Present?

SOIL Sampling Point STP-6U

Depth (inches) Matrix Redox Features 0-7 10YR 3/1 100 7-16 10YR 3/2 100	Texture Remarks Loamy/Clayey Loamy/Clayey		
0-7 10YR 3/1 100	Loamy/Clayey		
	·		
7-16 10YR 3/2 100	Loamy/Clayey		
	·		
	·		
	·		
	· ·		
	·		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain	s. 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 149B)		
Histic Epipedon (A2) MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)		
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA			
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L)	Thin Dark Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)	Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19) (MLRA 149 Mesic Spodic (TA6) (MLRA 144A, 145, 149E		
Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7)	Red Parent Material (F21)		
Sandy Redox (S5) Redox Depressions (F8)	Very Shallow Dark Surface (F22)		
Stripped Matrix (S6) Marl (F10) (LRR K, L)	Other (Explain in Remarks)		
Dark Surface (S7)			
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless d	sturbed or problematic.		
Restrictive Layer (if observed):			
Type:			
Depth (inches):	Hydric Soil Present? Yes No _X		
Remarks:	•		
This data form is revised from Northcentral and Northeast Regional Supplement Version			
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs	142p2_051293.docx)		

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19				
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-6W				
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem				
	relief (concave, convex, none): Concave Slope %: <1				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83				
Soil Map Unit Name: Urban land (Ur)	NWI classification: PEM				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturbed.					
Are Vegetation, Soil, or Hydrologynaturally problem					
SUMMARY OF FINDINGS – Attach site map showing sam	npling 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 X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 6				
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) X Water-Stained Leaves (
X High Water Table (A2) Aquatic Fauna (B13) Mad Banasite (B45)	Moss Trim Lines (B16)				
X Saturation (A3)Marl Deposits (B15)	Marl Deposits (B15) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)				
-	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Oxidized Rhizospheres Presence of Reduced In					
Algal Mat or Crust (B4) Recent Iron Reduction i	<u> </u>				
-	Thin Muck Surface (C7) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
	X 170 Neutral Test (ES)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes X No Depth (inches)					
Saturation Present? Yes X No Depth (inches) (includes capillary fringe)	: 0 Wetland Hydrology Present? Yes X No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	ovious inspections) if available:				
Describe Necorded Data (stream gauge, monitoring well, aerial photos, ph	evious inspections), ii available.				
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: STP-6W Absolute Dominant Indicator % Cover_ Species? <u>Tree Stratum</u> (Plot size: 30') **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Multiply by: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15' OBL species x 1 = **FACW** species 0 x 2 = 0 2. FAC species x 3 = 0 0 3. FACU species x 4 =0 4. UPL species 0 x 5 = 0 5. Column Totals: 80 Prevalence Index = B/A = 1.00 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% Lythrum salicaria Yes OBL X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. 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 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15' Woody vines - All woody vines greater than 3.28 ft in 1. height. 2. Hydrophytic 3. Vegetation Present? Yes X No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point STP-6W

Profile Desc Depth	cription: (Describe t Matrix	o the de	-	ı ment th		ator or co	onfirm the absence of indi	cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 3/1	100					Loamy/Clayey		
3-12	10YR 4/1	95	10YR 3/4	5	С	M	Loamy/Clayey		
12-16	10YR 4/1	90	10YR 4/4	10	С	М	Loamy/Clayey	Distinct redox concentrations	
						—			
	oncentration, D=Depl	etion, RM	1=Reduced Matrix, M	S=Masl	ked Sand	d Grains.		re Lining, M=Matrix.	
Hydric Soil I Histosol			Polyavoluo Polo	w Curfo	00 (80) (I DD D		oblematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B)	
	oipedon (A2)		Polyvalue Below Surface (S8) (LRR R, MLRA 149B)					Redox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfa		(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S					ow Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky I	vineral ((F1) (LR	R K, L)	Thin Dark Sur	face (S9) (LRR K, L)	
X Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)			X Depleted Matrix					odplain Soils (F19) (MLRA 149B)	
Sandy Mucky Mineral (S1)			Redox Dark Su					(TA6) (MLRA 144A, 145, 149B)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5)			Depleted Dark Surface (F7) Redox Depressions (F8)				Red Parent M	aterial (F21) Dark Surface (F22)	
			Marl (F10) (LRR K, L)				Other (Explain		
Stripped Matrix (S6) Dark Surface (S7)			Wan (1 10) (ER	· · · · · · · ·			Other (Explain	Till Remarkey	
	,								
³ Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu	st be pr	esent, ui	nless dist	urbed or problematic.		
	_ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Present?	Yes No	
Version 7.0,	m is revised from Noi 2015 Errata. (http://w (fly ash and bottom as	ww.nrcs.	usda.gov/Internet/FS					eld Indicators of Hydric Soils,	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19				
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-7U				
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem				
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): None Slope %: <1				
	Long: Datum: NAD 83				
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: None				
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 Hydrologysignificantly distur					
Are Vegetation, Soil, or Hydrologynaturally 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 No X	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Tremarks. (Explain alternative procedures here of 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 (I					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) — Aquatic Fable (A2) — Aquatic Fable (B15) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (
	Saturation Visible on Aerial Imagery (C9)				
	e of Reduced Iron (C4) Stunted or Stressed Plants (D1)				
1 <u> </u>	t Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
	TAG Noulial Test (55)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					
Tremains.					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	Сроскос.	Ctatao	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Lonicera morrowii	20	Yes	FACU	FACW species 15 x 2 = 30
2. Ribes americanum	10	Yes	FACW	FAC species 4 x 3 = 12
3. Rhamnus cathartica	2	No	FAC	FACU species130 x 4 =520
4				UPL species0 x 5 =0
5.				Column Totals: 149 (A) 562 (B)
6.		·		Prevalence Index = B/A = 3.77
7.				Hydrophytic Vegetation Indicators:
	32	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
1. Allium vineale	80	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Ambrosia artemisiifolia	30	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
3. Phragmites australis4. Setaria pumila	5 2	No No	FACW FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Carling Johnston Weeds plants less than 2 in DDI
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	117	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				Hydrophytic
3.				Vegetation
4.				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separation	rate sheet.)			

Sampling Point: STP-7U

SOIL Sampling Point STP-7U

		o the de				itor or co	onfirm the absence of indicators.)	
Depth (in ab a a)	Matrix	0/		x Featur		Loc ²	Tautura	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	LOC	Texture Remarks	—
0-4	10YR 2/1	100					Loamy/Clayey	
4-8	10YR 3/1	100					Sandy	
8-16	10YR 3/2	100					Sandy	
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	//S=Mas	ked Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Ir	ndicators:						Indicators for Problematic Hydric Soils ³ :	
Histosol (Polyvalue Belo		ce (S8) (I	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B) This Dark Surface (SO) (LBB B. MLRA 1				Coast Prairie Redox (A16) (LRR K, L, R)	D \
Black His			Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L)					
	n Sulfide (A4) Layers (A5)		Loamy Mucky Mineral (F1) (LRR K, L)			-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)	
		(Δ11)	Loamy Gleyed Matrix (F2)			Χ (, L)	Iron-Manganese Masses (F12) (LRR K, L)	D)
Depleted Below Dark Surface (A11)			Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 1	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)			Redox Dark Su		:6)		Mesic Spodic (TA6) (MLRA 144A, 145, 14	
Sandy Mucky Milleral (S1) Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)				Red Parent Material (F21)	02)
Sandy Re			Redox Depressions (F8)				Very Shallow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LRR K, L)				Other (Explain in Remarks)	
Dark Surf								
3								
	hydrophytic vegetation aver (if observed):	on and w	etland hydrology mu	ust be pr	esent, ur	iless dist	turbed or problematic.	
Type:	ayo. (oboo. roa).							
Depth (in	ches):						Hydric Soil Present? Yes No _X	_
Remarks:								
							n 2.0 to include the NRCS Field Indicators of Hydric Soils	,
version 7.0, 2	2015 Errata. (http://w	ww.mcs.	usua.gov/mlemei/F	סב_טטנ	OIVIEIN I	5/IIICS 14.	42p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/5/19			
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-7W			
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem			
-	I relief (concave, convex, none): Concave Slope %: _ <1			
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83			
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: PEM			
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				
Are Vegetation, Soil, or Hydrology naturally problem				
SUMMARY OF FINDINGS – Attach site map showing san	npling 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 X No			
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 7			
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) V. Water Stained Leaves (A2)	Surface Soil Cracks (B6) Prainage Patterns (R10)			
Surface Water (A1) X Water-Stained Leaves (A2) Adjustic Found (A2)				
High Water Table (A2) — Aquatic Fauna (B13) — Mart Deposits (B15)	Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15) Hydragon Sulfide Odor	Dry-Season Water Table (C2)			
1 — · · · · · · · · · · · · · · · · · ·	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Reduced II Algal Mat or Crust (B4) Recent Iron Reduction i	<u> </u>			
Iron Deposits (B5) Recent from Reduction 1 Thin Muck Surface (C7)	<u> </u>			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema				
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)			
	A FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No X Depth (inches)				
Water Table Present? Yes No X Depth (inches)				
Saturation Present? Yes No X Depth (inches)): Wetland Hydrology Present? Yes X No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:			
Deventor				
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: STP-7W Absolute Dominant Indicator Species? <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' **OBL** species x 1 = **FACW** species 100 x 2 = 200 0 2. FAC species x 3 = 0 0 3. FACU species x 4 =0 4. **UPL** species 0 x 5 = 0 5. Column Totals: 100 200 Prevalence Index = B/A =2.00 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% Phragmites australis 100 Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15' Woody vines - All woody vines greater than 3.28 ft in 1. height. 2. Hydrophytic 3. Vegetation Present? Yes X No ____ =Total Cover

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

SOIL Sampling Point STP-7W

Depth	Matrix			r Featur			onfirm the absence of i	maiotioio.
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	95	10YR 3/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
10-16	10YR 3/1	85	10YR 4/6	15	С	М	Loamy/Clayey	
	oncentration, D=Depl						² Location: PL:	=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Hydric Soil Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		k (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B))			Coast Pra	irie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B)5 cm Mucl	ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	11) (LRF	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky I	Mineral ((F1) (LR	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mang	ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matrix	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	6)		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parer	nt Material (F21)
Sandy R	Redox (S5)		Redox Depress	sions (F	3)		Very Shall	low Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Exp	plain in Remarks)
Dark Su	rface (S7)							
	f hydrophytic vegetati	ion and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Present	? Yes No
Version 7.0,	m is revised from Noi 2015 Errata. (http://w (fly ash and bottom as	ww.nrcs.u	usda.gov/Internet/FS					S Field Indicators of Hydric Soils,

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-8U1
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem
	relief (concave, convex, none): None Slope %: <1
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: None
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 distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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 (in in the control of
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	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Ir	
Algal Mat or Crust (B4) Recent Iron Reduction i This Mark Outlook (CT)	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No X Depth (inches)	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator	
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
•				That Are OBL, FACW, or FAC: 1 (A)
		· <u></u>		
				Total Number of Dominant Species Across All Strata: 3 (B)
				(b)
i		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
S				That Are OBL, FACW, or FAC: 33.3% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')			OBL species 2 x 1 = 2
. Lonicera morrowii	20	Yes	FACU	FACW species 20 x 2 = 40
. Ribes americanum	10	Yes	FACW	FAC species 2 x 3 = 6
Rhamnus cathartica	2	No	FAC	FACU species x 4 = 288
				UPL species 4 x 5 = 20
j				Column Totals: 100 (A) 356 (B)
S				Prevalence Index = B/A = 3.56
·				Hydrophytic Vegetation Indicators:
	32	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')	-			2 - Dominance Test is >50%
 -	E 0	Voo	EACH.	3 - Prevalence Index is ≤3.0¹
. Solidago canadensis	50	Yes	FACU	
2. Lysimachia nummularia	10	No	FACW	4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet)
3. Lythrum salicaria	2	No	OBL	data in Kemarks of on a separate sneet)
4. Allium vineale	2	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1 Indicators of hydric cail and watland hydrology must
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.	-			Definitions of Vegetation Strata:
·	. ———			Deminions of Vegetation Ottata.
-				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardless
	64	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 15')			
. Celastrus orbiculatus	2	No	UPL	Woody vines – All woody vines greater than 3.28 ft in height.
		-		noight.
2. Vitis sp.	2	No No	UPL	Hydrophytic
3				Vegetation
				Present? Yes No X
i		=Total Cover		

SOIL Sampling Point STP-8U1

	-	the dep				tor or co	onfirm the absence of inc	dicators.)
Depth (inches)	Matrix	0/		x Featur		Loc ²	Toyturo	Domorko
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	LOC	Texture	Remarks
0-16	10YR 3/1	100					Loamy/Clayey	
					•			
								_
	-							
¹Type: C=Co	oncentration, D=Deple	etion. RM	=Reduced Matrix. N	/S=Masi	ked Sand	Grains.	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soil I		,						roblematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RR R.		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	MLRA 149B		() (-	· · · · ,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	•	(LRR R.	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	High Chroma S					elow Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky I			-		urface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		ese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	(,	Depleted Matrix					oodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)	-	Redox Dark Su		·6)			c (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)	-	Depleted Dark					Material (F21)
	edox (S5)	-	Redox Depress					v Dark Surface (F22)
	Matrix (S6)	-	Marl (F10) (LR	,	- /			in in Remarks)
Dark Sur		-		, ,				,
	,							
³ Indicators of	hydrophytic vegetation	on and we	etland hydrology mu	ıst be pr	esent. ur	less dist	urbed or problematic.	
	ayer (if observed):		,		,			
Type:	,							
Depth (in	ches):						Hydric Soil Present?	Yes No X
							Trydric 30111 Tesent:	163 NOX
Remarks:			111 / 15				004 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	n is revised from Nor 2015 Errata. (http://wv							Field Indicators of Hydric Soils,
V C131011 7.0, 2	2010 Errata. (http://wi	// w.iii 03.u	3da.gov/internet/1	JL_DOC	OWILITI	5/11103142	EPZ_001200.d00x)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-8W1					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
	relief (concave, convex, none): concave Slope %: <1					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83					
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: PEM					
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 distur						
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling 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 X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 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) X Water-Stained Leaves (I	B9) Drainage Patterns (B10) Moss Trim Lines (B16)					
X High Water Table (A2) X Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Ire						
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>					
Iron Deposits (B5) Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _X Depth (inches):	:					
Water Table Present? Yes X No Depth (inches):						
Saturation Present? Yes X No Depth (inches):						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						

	ants.	Dominant	Indicator	<u> </u>
ree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
		<u> </u>		That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Deminant
				Total Number of Dominant Species Across All Strata: 2 (B)
				(=)
·				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 100.0% (A/E
·				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species 10 x 1 = 10
				FACW species 102 x 2 = 204
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
	·			UPL species 0 x 5 = 0
·				Column Totals: 112 (A) 214 (E
	-			`
·				Prevalence Index = B/A = 1.91
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Phragmites australis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
. Lythrum salicaria	50	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
. Geum rivale	10	No	OBL	data in Remarks or on a separate sheet)
. Lysimachia nummularia	2	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
			17.077	robiematic riyarophytic vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
	-			be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				
	112	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
	- 112	- Total Gover		of size, and woody planto loss than 6.25 it tall.
/oody //ino Stratum (Dlot size: 15')				Woody vines – All woody vines greater than 3.28 ft i
·				height.
·				
				Hydrophytic

SOIL Sampling Point STP-8W1

		the de	-			ator or co	onfirm the absence of indic	eators.)
Depth (in aboa)	Matrix	0/		Featur		Loc ²	Tautura	Damada
(inches)	Color (moist)	%	Color (moist)		Type ¹		Texture	Remarks
0-8	10YR 3/2	95	10YR 3/4	5	<u> </u>	M	Loamy/Clayey D	Distinct redox concentrations
8-16	2.5Y 3/2	90	7.5YR 3/4	10	<u>C</u>	M	Loamy/Clayey	
								_
							,	
¹ Type: C=Co	ncentration, D=Deple	etion, RM	1=Reduced Matrix, M	IS=Masl	ked Sand	d Grains.	² Location: PL=Por	e Lining, M=Matrix.
Hydric Soil Ir	dicators:						Indicators for Pro	blematic Hydric Soils ³ :
Histosol (Polyvalue Belo		ce (S8) (LRR R,		0) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)					Redox (A16) (LRR K, L, R)
Black His	` '		Thin Dark Surfa					eat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S			-		w Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I			R K, L)		ace (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			se Masses (F12) (LRR K, L, R)
	k Surface (A12)		Depleted Matrix					dplain Soils (F19) (MLRA 149B)
	icky Mineral (S1)		X Redox Dark Su					(TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark				Red Parent Ma	
Sandy Re			Redox Depress		3)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR l	K K, L)			Other (Explain	in Remarks)
Dark Surf	ace (S7)							
³ Indicators of	hvdrophytic vegetation	on and w	etland hvdrologv mu	st be pr	esent. ur	nless dist	urbed or problematic.	
	ayer (if observed):		,		, ,			
Type:								
Depth (inc	ches):						Hydric Soil Present?	Yes No
Remarks:								
							2.0 to include the NRCS Fie	ld Indicators of Hydric Soils,
Version 7.0, 2	015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-8U2					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
	relief (concave, convex, none): None Slope %: <1					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83					
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: None					
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 distur						
Are Vegetation, Soil, or Hydrology naturally problems						
SUMMARY OF FINDINGS – Attach site map showing sam						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
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) — Mad Deposits (B15)	Moss Trim Lines (B16)					
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (Sediment Deposits (B2) Oxidized Rhizospheres						
						
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 Remark)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
	A PAC-Neutral Test (D3)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches)	·					
Water Table Present? Yes No X Depth (inches)						
Saturation Present? Yes No X Depth (inches)	: Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), il avaliable.					
Remarks:						
Tromano.						

	Absolute	Dominant	Indicator	Sampling Point: STP-8U2
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
. Rhamnus cathartica	40	Yes	FAC	Number of Dominant Species
. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW, or FAC: 4 (A)
. Acer saccharinum	10	No	FACW	Total Number of Dominant
. Ulmus americana	10	No	FACW	Species Across All Strata: 7 (B)
·				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 57.1% (A/B
				Prevalence Index worksheet:
	70 =	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
. Fraxinus pennsylvanica	5	Yes	FACW	FACW species 48 x 2 = 96
Lindera benzoin	3	Yes	FACW	FAC species40 x 3 =120
. Lonicera morrowii	2	Yes	FACU	FACU species12 x 4 =48
·				UPL species10 x 5 =50
				Column Totals: 110 (A) 314 (B
				Prevalence Index = B/A = 2.85
				Hydrophytic Vegetation Indicators:
	10 =	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
. Leersia virginica	10	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
. Solidago canadensis	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supportin
Danthonia spicata	10	Yes	UPL	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
5. 5.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			,	Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
0.				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				Harle All back as a second or a second of a large
	30 =	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 15')				
·				Woody vines – All woody vines greater than 3.28 ft in height.
				- 3
				Hydrophytic
·				Vegetation Present? Yes X No
` ———		=Total Cover		103_X
	-	= Fotal Cover		

SOIL Sampling Point STP-8U2

		to the de	-			tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			x Featur		. 2	- .	D
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	100					Loamy/Clayey	
10-16	10YR 3/2	100					Sandy	
								
		·						
-								
								_
¹ Type: C=Co	oncentration, D=Depl	etion, RN	M=Reduced Matrix, N	/IS=Masl	ked Sand	l Grains.	² Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	_RR R,		A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•				Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		elow Surface (S8) (LRR K, L)
	l Layers (A5) l Below Dark Surface	· (A11)	Loamy Mucky Loamy Gleyed			K K, L)		urface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(A11)	Depleted Matri		ΓZ)			podplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			c (TA6) (MLRA 144A, 145, 149B)
	sleyed Matrix (S4)		Depleted Dark					Material (F21)
	edox (S5)		Redox Depress					Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explai	in in Remarks)
Dark Su	rface (S7)							
2								
		ion and v	vetland hydrology mu	ust be pr	esent, ur	less dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes No _X
Remarks:								
	m is revised from No 2015 Errata. (http://w							ield Indicators of Hydric Soils,
V 0101011 7.0,	2010 Enata. (http://w	WW.11100	.aoaa.gov/internet/1	0L_D00	JOINLIN	5/11/05 1 42	EPZ_001200.d00X)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-8W2					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
	relief (concave, convex, none): None Slope %: <1					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83					
Soil Map Unit Name: Udorthents, loamy (Ug)	NWI classification: PFO					
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 distur						
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling 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 X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 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 (I						
X High Water Table (A2) Aquatic Fauna (B13) And Deposits (B45)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) — Hydrogen Sulfide Odor (Sediment Deposits (B2) — Oxidized Rhizospheres (
Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres of Presence of Reduced Inc.						
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)	X FAC-Neutral Test (D5)					
Field Observations:						
<u> </u>						
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	wettand hydrology Fresent: Tes No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:					
Describe Resorded Bata (Stream gauge, monitoring well, dental prictos, pre	wide inopositorio), il avallabio.					
Remarks:						
1						

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Acer saccharinum	30	Yes	FACW	Number of Dominant Species
2. Fraxinus pennsylvanica	20	Yes	FACW	That Are OBL, FACW, or FAC:5 (A)
. Rhamnus cathartica	10	No	FAC	Total Number of Dominant
ı.				Species Across All Strata: 5 (B)
j				Barrant of Barriagat Canada
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 7 x 1 = 7
. Cornus amomum	15	Yes	FACW	FACW species 112 x 2 = 224
2. Lindera benzoin	5	Yes	FACW	FAC species 10 x 3 = 30
3. Fraxinus pennsylvanica	2	No	FACW	FACU species 0 x 4 = 0
. Traximae permeyrvamea				UPL species 0 x 5 = 0
· i.				Column Totals: 129 (A) 261 (B
				Prevalence Index = $B/A = 2.02$
·				
·	22	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Jorh Stratum (Plot aizo: E')		= rotal Covel		X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')	20	Vaa	EACW.	
. Carex sp.		Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Geum rivale	5	No No	FACW	4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet)
B. Lysimachia nummularia	5	No No	FACW	
l. Iris versicolor	5	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Lythrum salicaria 5.	2	No No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
3.				Tree – Woody plants 3 in. (7.6 cm) or more in
).				diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	47	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft ii
i.				height.
2.				
3.				Hydrophytic
ı.				Vegetation Present? Yes X No
		=Total Cover		
		- 1 Olai OOVOI		

SOIL Sampling Point STP-8W2

		o the de	-			ator or co	onfirm the absence of in	dicators.)
Depth (in aboa)	Matrix	0/		k Featur		Loc ²	Taratrana	Demonto
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks
0-9	10YR 3/1	90	10YR 3/4	10	<u> </u>	M	Loamy/Clayey	Distinct redox concentrations
9-16	10YR 4/1	85	7.5YR 3/4	15	<u>C</u>	M	Loamy/Clayey	
								_
¹ Type: C=Co	ncentration, D=Deple	etion, RN	1=Reduced Matrix, M	1S=Masl	ked Sand	d Grains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Ir								Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo		ce (S8) (LRR R,		(A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)		// DD D			e Redox (A16) (LRR K, L, R)
Black His	` '		Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S			-		elow Surface (S8) (LRR K, L)
	Layers (A5)	(111)	Loamy Mucky I			K K, L)		furface (S9) (LRR K, L)
	Below Dark Surface k Surface (A12)	(A11)	Loamy Gleyed X Depleted Matrix		F2)			nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		X Redox Dark Su		·6)			ic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					Material (F21)
Sandy Re			Redox Depress					w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		-,			ain in Remarks)
Dark Surf				, ,			 ` '	,
		on and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Present?	Yes No
Remarks:							004 1 1 4 1 1000	=:
	n is revised from Nor 015 Errata. (http://wi							Field Indicators of Hydric Soils,
V C I O I O I I I I O I I	oro Errata: (http://wi	ww.iii00.	dodd.gov/mtomot/i	JL_DOC	OWEIT	0/1110014	EPZ_001230.000X)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-9U					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
	relief (concave, convex, none): None Slope %: <1					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83					
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None					
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 disturb						
Are Vegetation, Soil, or Hydrology naturally problema						
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	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 (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 (
Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro						
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 Remark						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
<u> </u>						
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	winus inspections) if available:					
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, pre	vious inspections), ii available.					
Remarks:						
Nomano.						

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Deminant Species
	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')		-10101 00101		OBL species 2 x 1 = 2
				FACW species 0 x 2 = 0
		· 		FAC species 0 x 3 = 0
				FACU species 30 x 4 = 120
				UPL species 0 x 5 = 0
				Column Totals: 32 (A) 122 (E
				Prevalence Index = B/A = 3.81
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
Poa pratensis	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Poa pratensis Solidago canadensis	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporti
				data in Remarks or on a separate sheet)
Lythrum salicaria	2	No	OBL	
·				Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBH
i.				and greater than or equal to 3.28 ft (1 m) tall.
2.				
	32	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Oody Vine Stratum (Plot size: 15')		- Total Govol		
· · · · · · · · · · · · · · · · · · ·				Woody vines – All woody vines greater than 3.28 ft i
				height.
				Hydrophytic
		· ——		Vegetation
				December Voc No V
				Present? Yes No X

SOIL Sampling Point STP-9U

		o the de	-			ator or co	onfirm the absence of ind	licators.)
Depth (inches)	Matrix	0/		k Featur		Loc ²	Touturo	Domorko
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc	Texture	Remarks
0-6	10YR 3/1	100					Sandy	
6-16	10YR 3/1	90	7.5YR 3/4	10	С	M	Loamy/Clayey	
						-		
1							2	
	ncentration, D=Deple	etion, RN	1=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		ore Lining, M=Matrix. roblematic Hydric Soils ³ :
Hydric Soil In Histosol (Polyvalue Belo	w Surfa	ce (S8) (IRRR		A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		(00) (LIXIX IX,		Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Dark Su	ırface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matrix					podplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		X Redox Dark Su					C (TA6) (MLRA 144A, 145, 149B)
Sandy Gi	eyed Matrix (S4)		Depleted Dark Redox Depress					Material (F21) Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		5)			in in Remarks)
Dark Surf	` '			· · · · · , —,				
³ Indicators of	hydrophytic vegetation	on and w	vetland hydrology mu	ıst be pr	esent, u	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes X No
Remarks:								
	n is revised from Nor 2015 Errata. (http://w							ield Indicators of Hydric Soils,
V C I S I O I I I . O , Z	1010 Enata. (http://w	ww.iiios.	usua.gov/internet/1	JL_DOC	OWILINI	0/11103142	2p2_001200.d00x)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: STP-9W					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
	relief (concave, convex, none): None Slope %: <1					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83					
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: PEM					
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 distur						
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling 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 X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland 9					
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 (I						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of Proposition (B2)						
Drift Deposits (B3)Presence of Reduced Iro						
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·					
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	Shallow Aquitard (D3) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
	A FAC-Neutral Test (D3)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes X No Depth (inches):						
Saturation Present? Yes X No Depth (inches):	:6 Wetland Hydrology Present? Yes _X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						
Nemans.						

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 STP-9W

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 30 x 1 = 30
				FACW species 10 x 2 = 20
		<u> </u>		FAC species 0 x3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 40 (A) 50 (B)
6.				Prevalence Index = B/A = 1.25
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
	10		FACW	4 - Morphological Adaptations ¹ (Provide supporting
 Salix sp. Salix sp. 		Yes	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	40	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				Hydrophytic
3.				Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			
` .				

SOIL Sampling Point STP-9W

	-	o the de	-			ator or co	onfirm the absence of	indicators.)
Depth (in ab a a)	Matrix	0/		x Featur		Loc ²	Tautuma	Damadia
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks
0-4	10YR 3/1	85	10YR 3/4	15	<u>C</u>	<u>M</u>	Sandy	Distinct redox concentrations
4-16	2.5Y 3/1	90	7.5YR 3/4	10	С	<u>M</u>	Loamy/Clayey	
	ncentration, D=Deple	etion, RN	1=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.		=Pore Lining, M=Matrix.
Hydric Soil Ir			5 5.	o ,	(00) (r Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo MLRA 149B		ce (58) (LKK K,		ck (A10) (LRR K, L, MLRA 149B)
Black His	pedon (A2)		Thin Dark Surfa		(I RR R	MI RA 1		airie Redox (A16) (LRR K, L, R) sky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			-		Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed					ganese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		Depleted Matrix	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		X Redox Dark Su					odic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					nt Material (F21)
X Sandy Re			Redox Depress		8)			llow Dark Surface (F22)
Dark Surf	Matrix (S6)		Marl (F10) (LR	K K, L)			Other (Ex	plain in Remarks)
Bank Gan	doc (07)							
³ Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present	t? Yes No
Remarks:							•	
								S Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/internet/F3	SE_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12						
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: UPL-U						
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem						
	relief (concave, convex, none): None Slope %: <1						
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:	Long: Datum: NAD 83						
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None						
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 distur							
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
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 (I							
High Water Table (A2) Aquatic Fauna (B13) And Deposits (B15)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15) Water Marks (B1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)						
Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8) on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction ir	• · · · · · · · · · · · · · · · · · · ·						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	· · · · · · · · · · · · · · · · · · ·						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
	TAC-Neutral Test (D3)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):							
Water Table Present? Yes No X Depth (inches):							
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							
Tromano.							

EGETATION – Use scientific names of pla				Sampling Point: UPL-L	<u> </u>	
Free Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
. Populus deltoides	10	Yes	FAC	Number of Dominant Species		
Acer saccharinum	10	Yes	FACW	That Are OBL, FACW, or FAC:	(A)	
3. Fraxinus pennsylvanica	5	No	FACW	Total Number of Dominant	_	
. Rhamnus cathartica	2	No	FAC	Species Across All Strata: 7	_(B)	
j		, <u></u>		Percent of Dominant Species	-	
3.		·		That Are OBL, FACW, or FAC: 57.1%	(A/B)	
:				Prevalence Index worksheet:	-	
	27	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 0 x 1 = 0		
. Lonicera morrowii	5	Yes	FACU_	FACW species 47 x 2 = 94		
2. Lindera benzoin	2	Yes	FACW	FAC species 12 x 3 = 36	_	
3.				FACU species 55 x 4 = 220	_	
1.				UPL species 22 x 5 = 110	_	
5.				Column Totals: 136 (A) 460	— (B)	
5.	-			Prevalence Index = B/A = 3.38		
7.	-	•		Hydrophytic Vegetation Indicators:		
	7	=Total Cover	-	1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')		=10tal 00.0.		X 2 - Dominance Test is >50%		
1. Alliaria petiolata	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
Annaria petrolata Leersia virginica	30	Yes	FACW	4 - Morphological Adaptations ¹ (Provide sup	~~ortin	
	10			data in Remarks or on a separate sheet)		
3. Hackelia virginiana		No No	FACU			
4. Ageratina altissima	10	No No	FACU	Problematic Hydrophytic Vegetation ¹ (Expla	ıin)	
5. Rubus occidentalis 6.	2	No No	UPL	¹ Indicators of hydric soil and wetland hydrology r be present, unless disturbed or problematic.	must	
7.				Definitions of Vegetation Strata:	_	
3.				Tree – Woody plants 3 in. (7.6 cm) or more in		
9.		- <u> </u>		diameter at breast height (DBH), regardless of h	neight.	
10.		·		Sapling/shrub – Woody plants less than 3 in. D	лен	
11.				and greater than or equal to 3.28 ft (1 m) tall.	ווסל	
12.					- ساامور	
	82	=Total Cover		Herb – All herbaceous (non-woody) plants, rega of size, and woody plants less than 3.28 ft tall.	เโตเธอง	
Woody Vine Stratum (Plot size: 15')		,			00 ft is	
1. Celastrus orbiculatus	20	Yes	UPL	Woody vines – All woody vines greater than 3.2 height.	28 It ii	
2.		•				
3.				Hydrophytic		
4.	-			Vegetation Present? Yes X No		
*	20	=Total Cover		Freschi: 165 A 165		
	20	= I Ulai Ouvui				

SOIL Sampling Point UPL-U

Profile Desc Depth	cription: (Describe) Matrix	to the de	-	ument tl x Featur		tor or co	onfirm the absence of in	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 3/1	100					Loamy/Clayey		
3-26	10YR 2/1	100					Loamy/Clayey	Black 10YR 2-/1	
	10111 2/1	100					Louiny/Clayby	Black TOTAL 271	
		<u></u>							
							<u> </u>		
¹ Type: C=Co	oncentration, D=Depl	letion, RN	M=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	² Location: PL=F	Pore Lining, M=Matrix.	
Hydric Soil I								Problematic Hydric Soi	
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA	
	pipedon (A2)		MLRA 149B	•				e Redox (A16) (LRR K,	
Black Hi	` '		Thin Dark Surf					/ Peat or Peat (S3) (LRF	
	n Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky			-		selow Surface (S8) (LRR Surface (S9) (LRR K, L)	K, L)
	d Layers (A3) d Below Dark Surface	- (Δ11)	Loamy Gleyed			X IX, L)		nese Masses (F12) (LR	RKIR)
	ark Surface (A12)	(((1))	Depleted Matri		1 2)			loodplain Soils (F19) (M	
	lucky Mineral (S1)		Redox Dark Su		·6)			lic (TA6) (MLRA 144A, 1	
	ileyed Matrix (S4)		Depleted Dark					Material (F21)	,
	edox (S5)		Redox Depres	sions (F	8)		Very Shallo	w Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Expl	ain in Remarks)	
Dark Sui	rface (S7)								
0									
	, , , ,	ion and v	vetland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.		
	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Present?	Yes N	o <u>X</u>
Remarks:									
							2.0 to include the NRCS	Field Indicators of Hydri	c Soils,
version 7.0,	2015 Errata. (http://w	ww.nics.	usua.gov/internet/F	SE_DOC	JUIVIEINI	5/HICS 14.	2p2_051293.docx)		

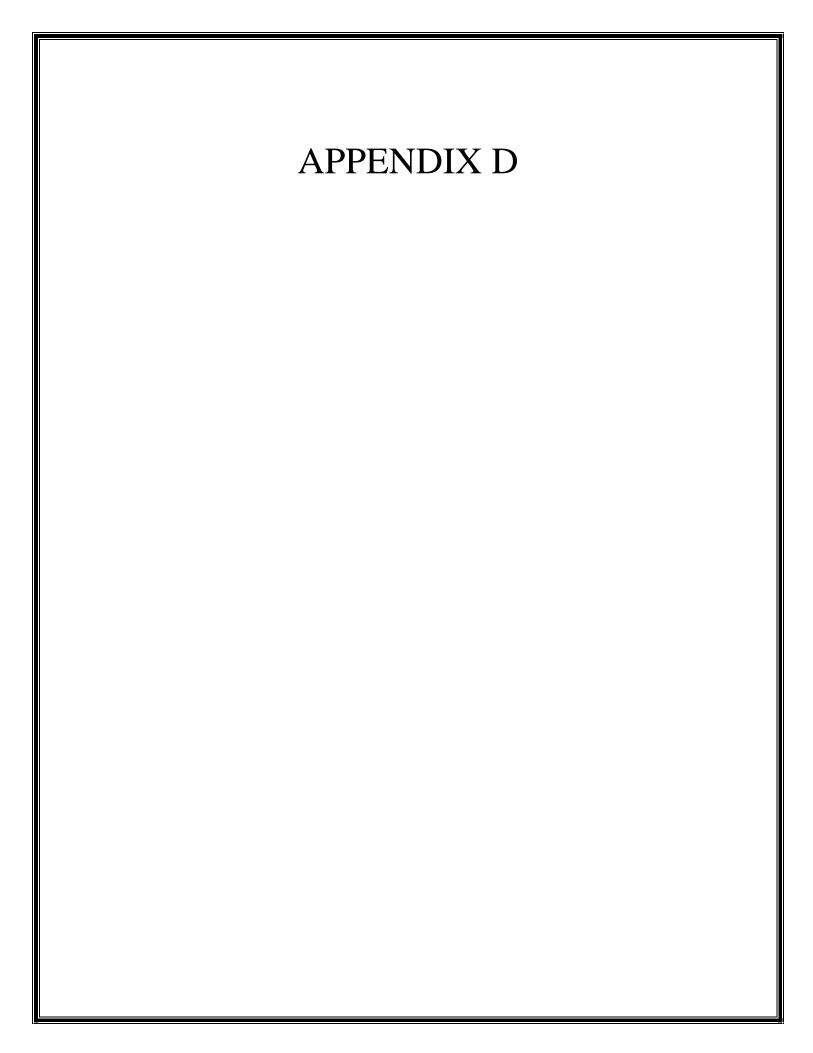
Project/Site: Port of Albany Expansion Project	City/County: Glenmont/ Albany Sampling Date: 4/12/19					
Applicant/Owner: Albany Port Authority	State: NY Sampling Point: UPL-U1					
Investigator(s): T. Wirickx	Section, Township, Range: Bethlehem					
Landform (hillside, terrace, etc.): Floodplain Local	relief (concave, convex, none): None Slope %: <1					
	Long: Datum: NAD 83					
Soil Map Unit Name: Wayland soils complex (Wo)	NWI classification: None					
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 Hydrologysignificantly distur						
Are Vegetation, Soil, or Hydrologynaturally 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 No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
Tremains. (Explain alternative procedures here of 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 (
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 (
Sediment Deposits (B2) Oxidized Rhizospheres						
Drift Deposits (B3) Presence of Reduced In						
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>					
Iron Deposits (B5) Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark)	<u> </u>					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches)	:					
Water Table Present? Yes No X Depth (inches)						
Saturation Present? Yes No X Depth (inches)						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
	, ,					
Remarks:						

Trop Stratum (Diot aiza: 201)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1. Populus deltoides	% Cover	Species?	Status FAC	Dominance rest worksneet:
Acer saccharinum	15 2	Yes No	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7				Prevalence Index worksheet:
	17	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lindera benzoin	20	Yes	FACW	FACW species 22 x 2 = 44
2.				FAC species15 x 3 =45
3.				FACU species 55 x 4 = 220
4.				UPL species30 x 5 =150
5				Column Totals: 122 (A) 459 (B)
6.				Prevalence Index = B/A = 3.76
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Hackelia virginiana	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Ageratina altissima	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
Solidago canadensis	10	No No	FACU	data in Remarks or on a separate sheet)
Alliaria petiolata	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5.		·		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic. Definitions of Vegetation Strata:
8.				Trace Manda district 2 in (7.0 and an arrangin
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		·		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
·	55	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
Celastrus orbiculatus	30	Yes	UPL	height.
2.				
3.		·		Hydrophytic Vegetation
4.				Present?
	30	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: UPL-U1

SOIL Sampling Point UPL-U1

	-	o the de				itor or co	onfirm the absence of inc	licators.)	
Depth	Matrix	0/		x Featur		1 2	Tautuma	Demonto	
<u> </u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2	10YR 3/1	100					Loamy/Clayey		
2-26	10YR 2/1	100					Loamy/Clayey	Black 10YR 2-/1-	
									
¹ Type: C=Concer	ntration. D=Deple	etion. RM	=Reduced Matrix, M	 IS=Masl	ked Sand	Grains.	² Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils ³ :				
Histosol (A1)			Polyvalue Belo	w Surfa	ce (S8) (I	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 1				49B)5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Su		High Chroma Sands (S11) (LRR K, L)				elow Surface (S8) (LRR K, L)			
Stratified Lay		Loamy Mucky Mineral (F1) (LRR K, L)			Thin Dark Surface (S9) (LRR K, L)				
Depleted Belo		Loamy Gleyed Matrix (F2)			Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick Dark Surface (A12)			Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Redox Dark Surface (F6) Depleted Dark Surface (F7)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)		
Sandy Redox (S5)			Redox Depressions (F8)				Very Shallow Dark Surface (F22)		
Stripped Matrix (S6)			Mari (F10) (LRR K, L)				Other (Explain in Remarks)		
Dark Surface (S7)								,	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Restrictive Laye	r (if observed):								
Туре:									
Depth (inches	s):						Hydric Soil Present?	Yes No <u>X</u>	
Remarks:									
								rield Indicators of Hydric Soils,	
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)									







Photograph of Wetland 1 near STP-1W1



Photograph of Wetland 1 near STP-1W2





Photograph of Wetland 3 near STP-3W1



Photograph of Wetland 4 near STP-4W1





Photograph of Wetland 5 near STP-5W1



Photograph of Wetland 6 near STP-6W1





Photograph of Wetland 7 near STP-7W1



Photograph of Wetland 8 near STP-8W1





Photograph of Wetland 8 near STP-8W2



Photograph of Wetland 9 near STP-9W1





Photograph of upland area UPL-U



Photograph of upland area UPL-U1





Photograph of Stream 1 (Hudson River) in vicinity of PSA



Photograph of Stream 2 (Normans Kill) in vicinity of PSA