Appendix 7: Supplemental Wetland Delineation Report (2021)



Joint Permit Application Package Albany Port District Commission

Port of Albany Expansion Project



SUPPLEMENTAL WETLAND DELINEATION REPORT

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

MAY 2021

PREPARED FOR



ALBANY PORT DISTRICT COMMISSION 106 SMITH BOULEVARD ALBANY, NY 12202 (518) 463-8763 www.portofalbany.us

PREPARED BY



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1 PROJECT BACKGROUND

Introduction

McFarland Johnson, Inc. (MJ) was retained by the Albany Port District Commission (APDC) to provide professional engineering services for the Port of Albany Expansion Project located in the Town of Bethlehem, Albany County, New York.

This report serves as a supplement to the Wetlands and Surface Waters Delineation Report prepared by MJ in June of 2019. The original delineations occurred within a 94.75-acre project review area on April 3-5 and April 11-12, 2019. A total of eight (8) freshwater wetlands (identified as 1, 3, 4, 5, 6, 7, 8, 9) were identified and delineated. Two (2) streams were also identified on site (the Hudson River and the Normans Kill). The boundaries of the previously delineated wetlands and streams are identified on the Wetlands and Surface Waters Delineation Plans (Appendix B) of the 2019 report.

This Supplemental Wetland Delineation Report has been prepared to document the wetland boundaries located adjacent to the original project review area that were not included in the previous delineation efforts. The supplemental project study area (PSA) encompasses approximately 18.22 acres as shown on the attached site figures and plans (Appendix A and Appendix B).

2 METHODS

2.1 AGENCY RESOURCE INFORMATION

Prior to the field delineations of the PSA, aerial photographs and various mapping resources were reviewed, including the following:

- a) Geological Survey (USGS) Topographic Map (Delmar USGS 7.5 Minute Quadrangle) (Appendix A- Figure 1);
- b) NYSDEC Regulated Surface Waters and Wetlands Map (Appendix A- Figure 2);
- c) National Wetlands Inventory (NWI) Map (Appendix A- Figure 3); and



d) Web Soil Survey Map provided by the Natural Resources Conservation Service (NRCS) (Appendix A- Figure 4).

2.2 FIELD DATA COLLECTION

The wetland delineation of the 18.22-acre PSA was completed by MJ in April 2021. The wetland delineation was conducted through field investigations of vegetation, soils and hydrology in accordance with the United States Army Corps of Engineers (USACE) protocols outlined in the 1987 *Corps of Engineers 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 recorded using a hand-held Trimble Geo7X GPS unit. USACE Wetland Determination Data Forms were recorded to document the wetland (Appendix D). Representative photographs of the wetlands were also collected (see Appendix E). Further descriptions on the field criteria and methods used to identify wetlands within the PSA are described in the subsequent subsections.

3 RESULTS

3.1 AGENCY RESOURCES INFORMATION

Review of the USGS topographic mapping (see Appendix A - Figure 1) suggested the potential for wetlands on site due to low topography associated with the floodplains of the Normans Kill and the Hudson River.

The New York State Freshwater Wetland mapping of the project (Appendix A - Figure 2) indicated the 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 PSA (see Appendix A- Figure 3) indicated the entirety of the PSA is located within a Palustrine Emergent Wetland (PEM).

Based on soils information provided by the NRCS (see Appendix A- Figure 4), the mapped soil within the PSA is mapped as Wayland soils complex, non-calcareous substratum, 0-3% slopes. Wayland soils complex is considered a hydric soil.

3.2 WETLANDS

One contiguous wetland, comprising a total of 7.13 acres, was delineated within the 18.22-acre PSA. The delineated wetland represents an extension of the previously delineated Wetland 1. The wetland boundary is as identified on the PSA Wetland Delineation Plan (see Appendix B). Additional information on the portion of Wetland 1 identified within the 18.22-acre PSA can be found in Appendix C - Wetland Determination Data Forms and Appendix D - Wetland Photographs.

Wetlands within 18.22-Acre PSA							
Feature I.D.	Feature Type	Acres	NYSDEC Jurisdiction	USACE Jurisdiction			
Matley d 1	PEM	6.81	No	Yes			
Wetland 1	PFO	0.32	No	Yes			

Wetland 1

The 7.13-acre portion of Wetland 1 located within the PSA is considered predominately a PEM wetland. Dominant vegetative species included eastern cottonwood (*Populus deltoides*), common reed (*Phragmites australis*), purple loosestrife (*Lythrum salicaria*), and spike rush (*Eleocharis palustris*). Wetland 1 drains in a northerly direction into 40-inch corrugated metal pipe (CMP) which discharges directly to the Normans Kill.

3.2.1 NYSDEC Jurisdiction

NYSDEC mapping of regulated wetlands (see Appendix A- Figure 2) indicates that no NYSDEC regulated wetlands (freshwater or tidal) are located within the PSA or within



100-feet of the PSA. Based on this information it is believed that Wetland 1 is not subject to NYSDEC jurisdiction under Article 24 or Article 25 of the Environmental Conservation Law (ECL).

3.2.2 USACE JURISDICTION

The USACE regulates activities in wetlands that have significant hydrological connections 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 Navigable Waters Protection Rule (NWPR). Wetland 1 has a direct surficial hydrological connection to the Normans Kill. Based on the guidance promulgated under the NWPR, Wetland 1 should be regulated by the USACE under Section 404 of the CWA.

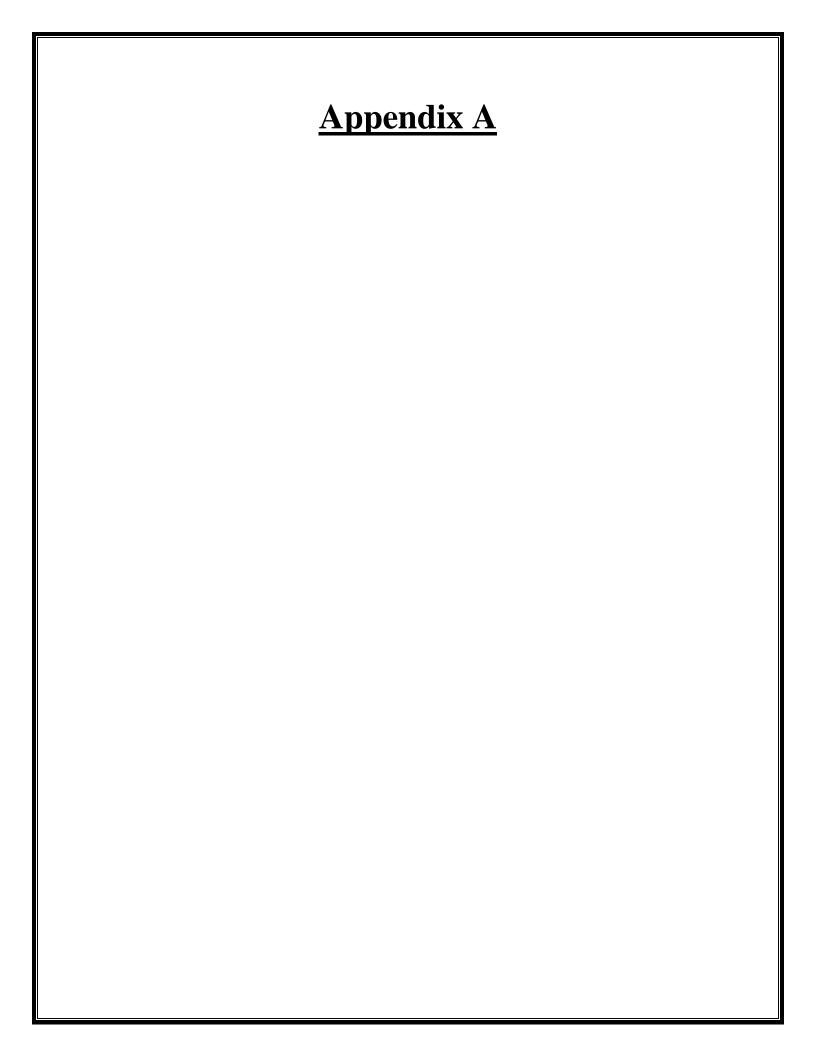
4 SUMMARY

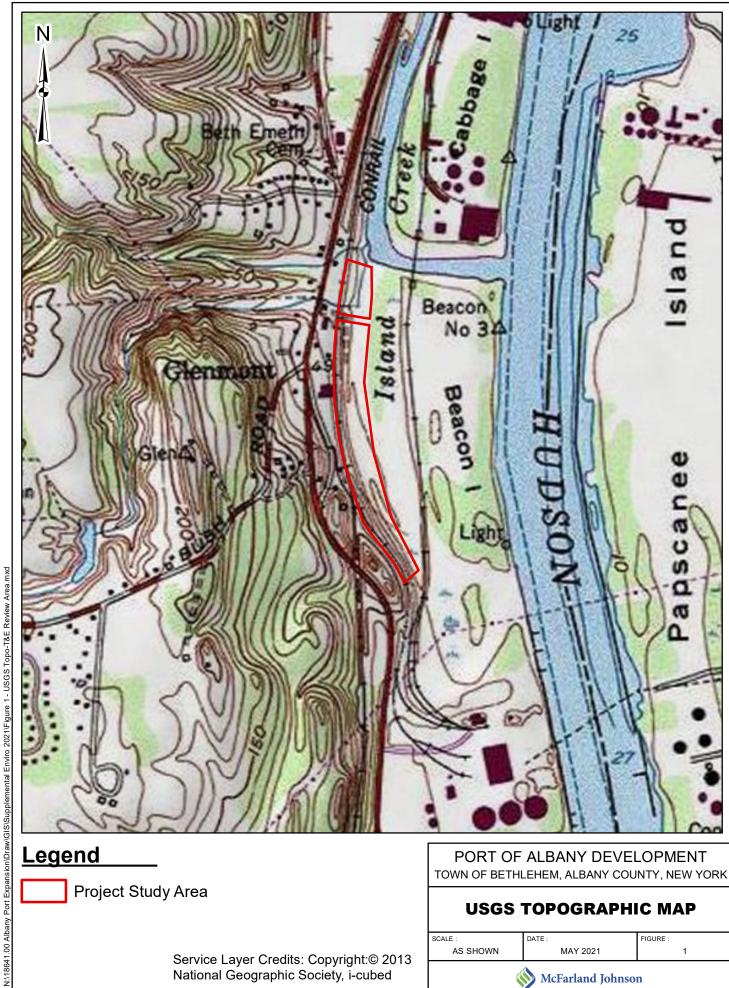
Based on agency resources review and field surveys, MJ presents the following interpretations on the wetlands delineated within the 18.22-acre PSA:

 Wetland 1 has a direct surficial hydrological connection to the Normans Kill, which is considered a TNW under Section 10 of the Rivers and Harbors Act and Section 404 of the CWA, and therefore should be regulated under Section 404 of the CWA.

The wetland boundaries and jurisdictional statuses as presented in this report and accompanying plans are as determined by MJ and are subject to USACE review and approval.







Legend

Project Study Area

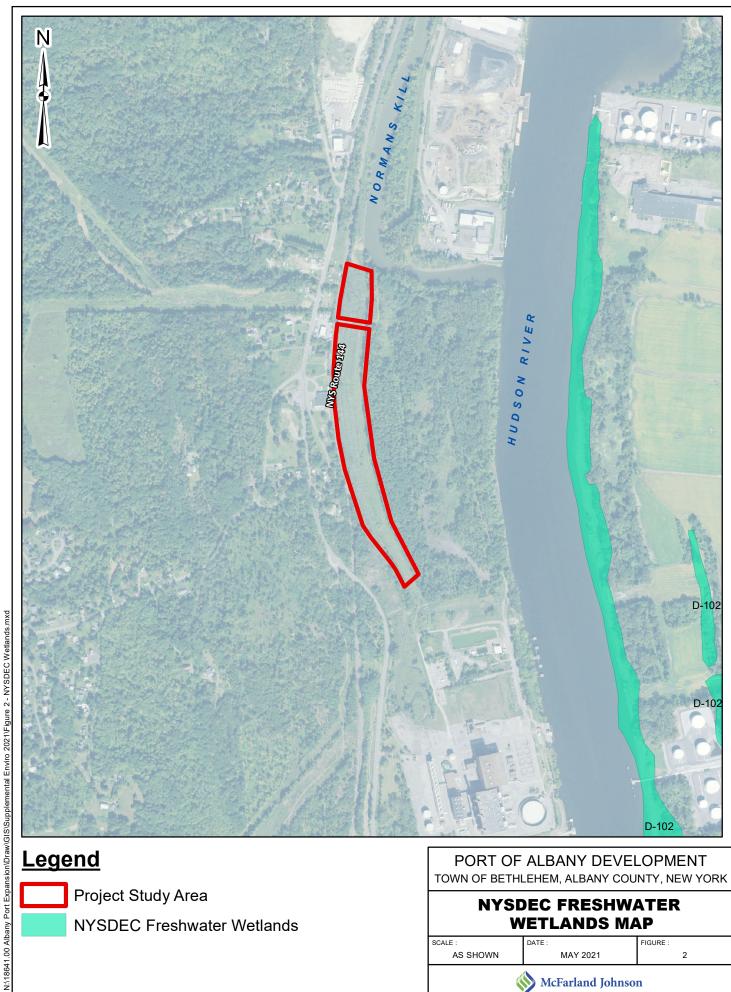
Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

PORT OF ALBANY DEVELOPMENT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

USGS TOPOGRAPHIC MAP

SCALE : FIGURE : AS SHOWN MAY 2021





Legend

Project Study Area

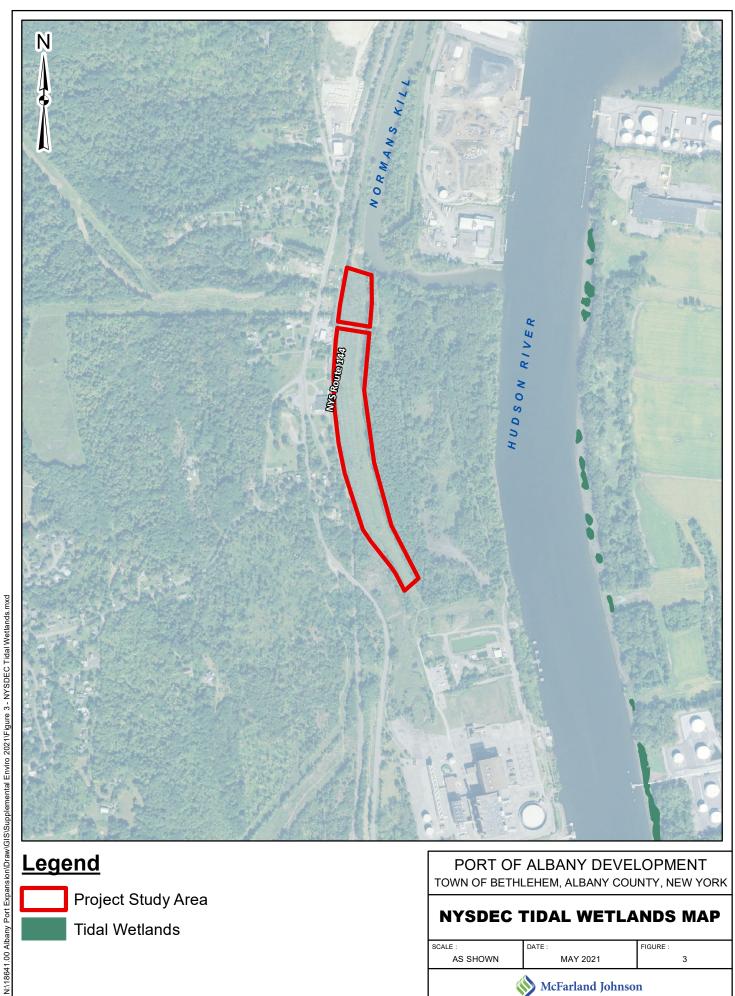
NYSDEC Freshwater Wetlands

PORT OF ALBANY DEVELOPMENT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

NYSDEC FRESHWATER WETLANDS MAP

SCALE : AS SHOWN MAY 2021





<u>Legend</u>

Project Study Area

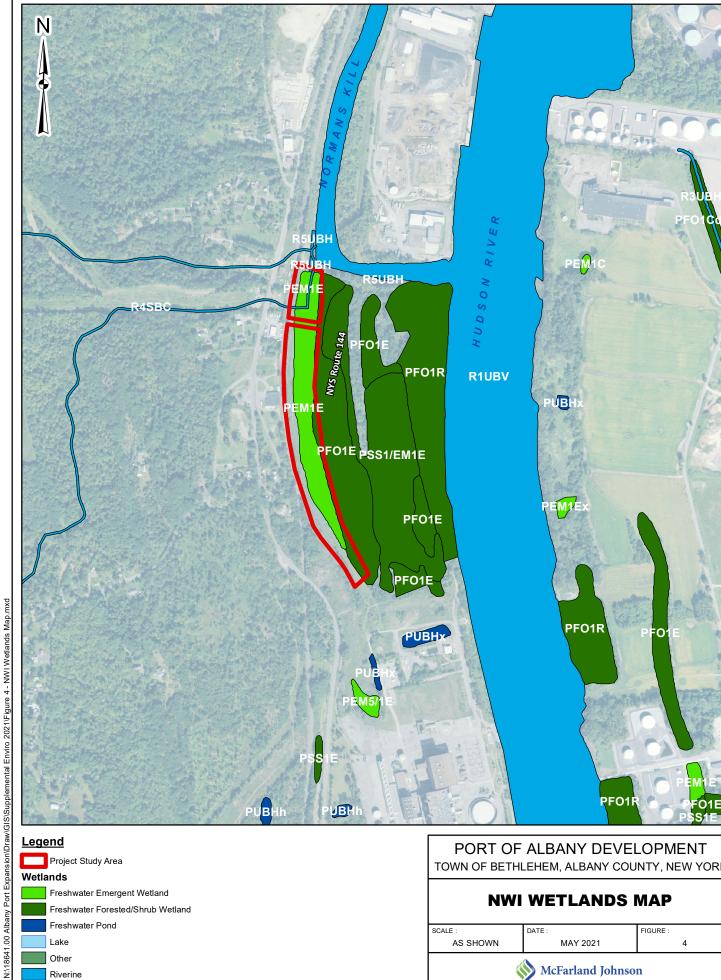
Tidal Wetlands

PORT OF ALBANY DEVELOPMENT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

NYSDEC TIDAL WETLANDS MAP

FIGURE : AS SHOWN MAY 2021





Project Study Area

Wetlands

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

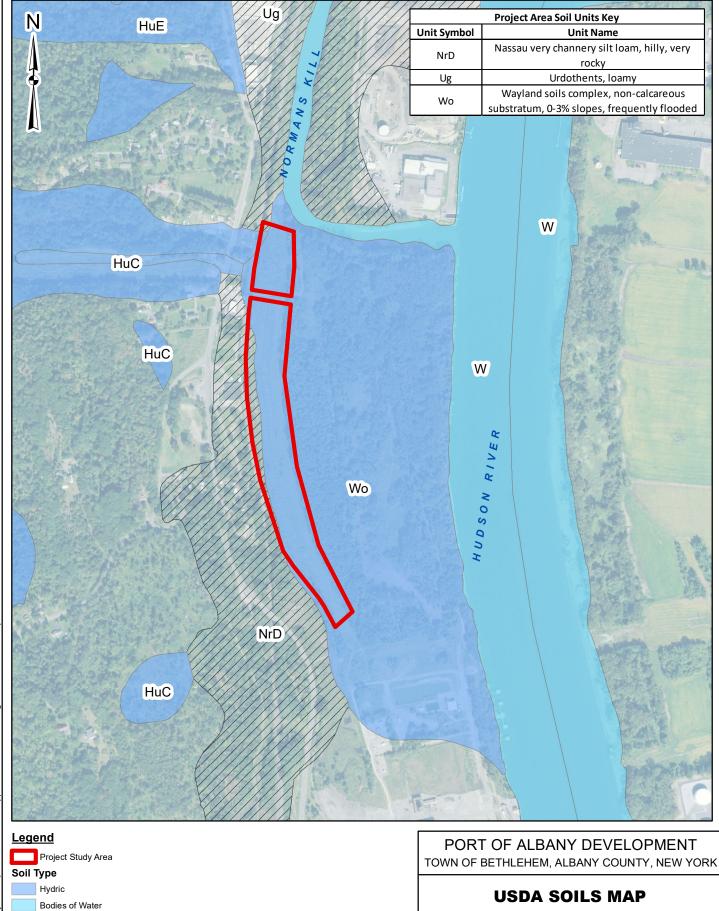
Lake Other

PORT OF ALBANY DEVELOPMENT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

NWI WETLANDS MAP

SCALE : DATE: FIGURE : AS SHOWN MAY 2021





SCALE :

AS SHOWN

DATE:

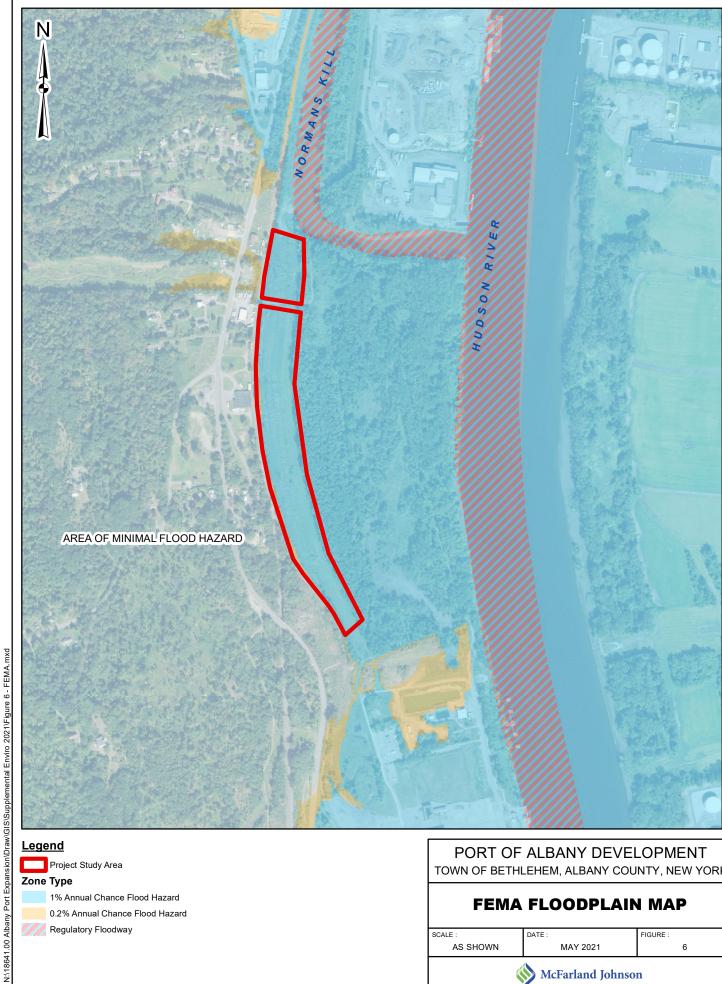
MAY 2021

McFarland Johnson

FIGURE :

N:\18641.00 Albany Port Expansion\Draw\GIS\Supplemental Enviro 2021\Figure 5 - USDA Soils Map.mxd

Not Hydric





Project Study Area

Zone Type

1% Annual Chance Flood Hazard

0.2% Annual Chance Flood Hazard

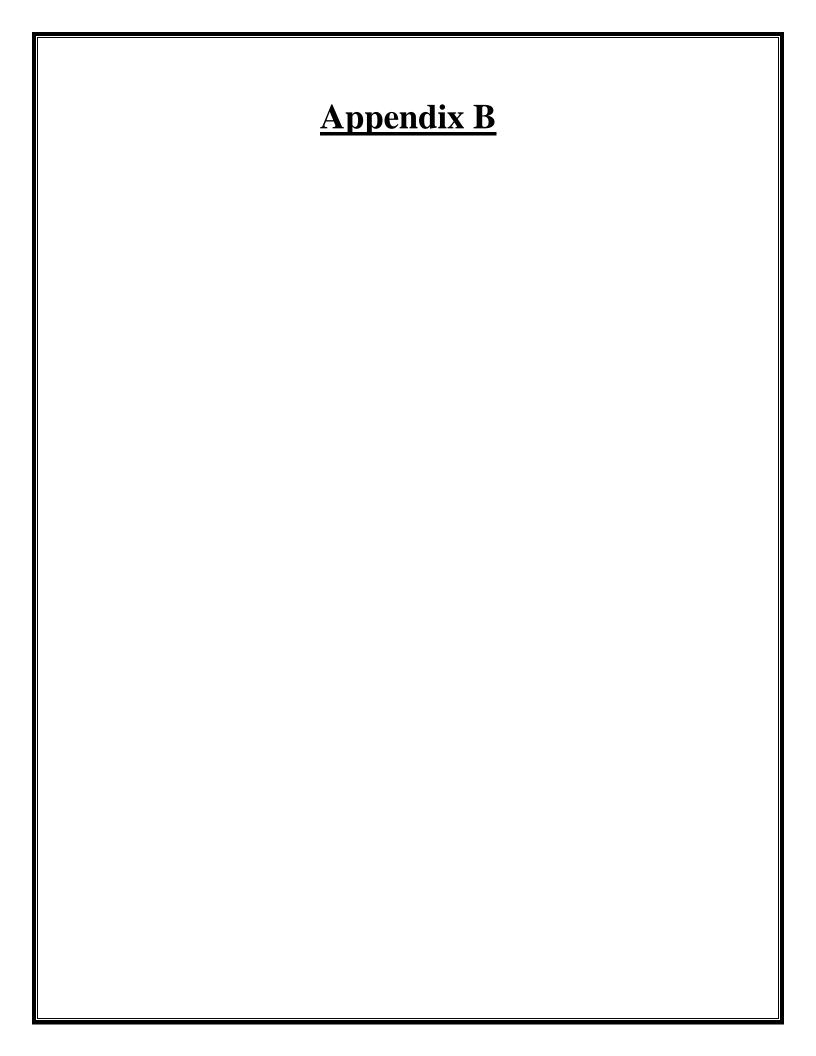
Regulatory Floodway

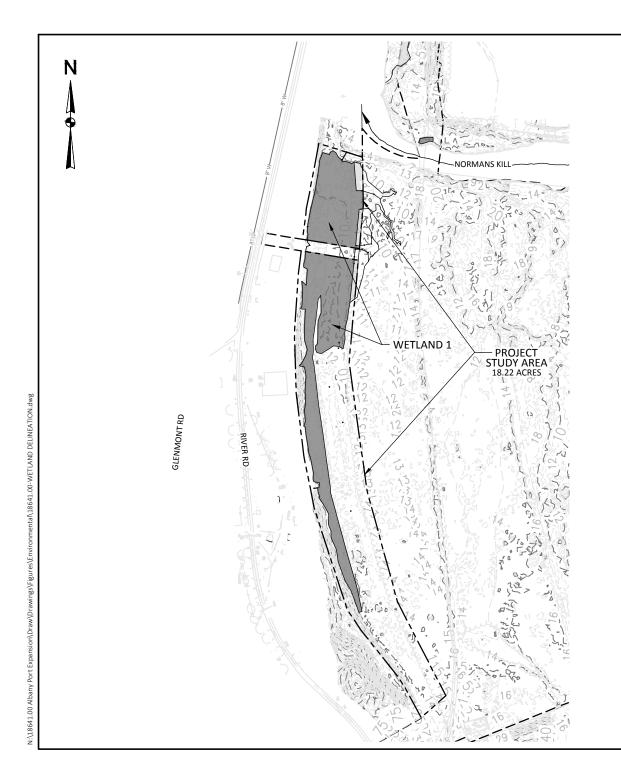
PORT OF ALBANY DEVELOPMENT TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

FEMA FLOODPLAIN MAP

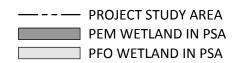
SCALE : FIGURE : AS SHOWN MAY 2021

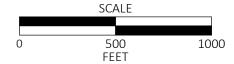






WETLANDS WITHIN 18.22 PROJECT STUDY AREA								
FEATURE ID	FEATURE TYPE	ACRES	NYSDEC REGULATED	USACE REGULATED				
WETLAND 1	PEM	6.81	NO	YES				
WEILANDI	PFO	0.32	NO	YES				





NOTES:

1. WETLAND BOUNDARIES DELINEATED AND SURVEYED VIA GPS BY MCFARLAND JOHNSON, INC., APRIL 2021.

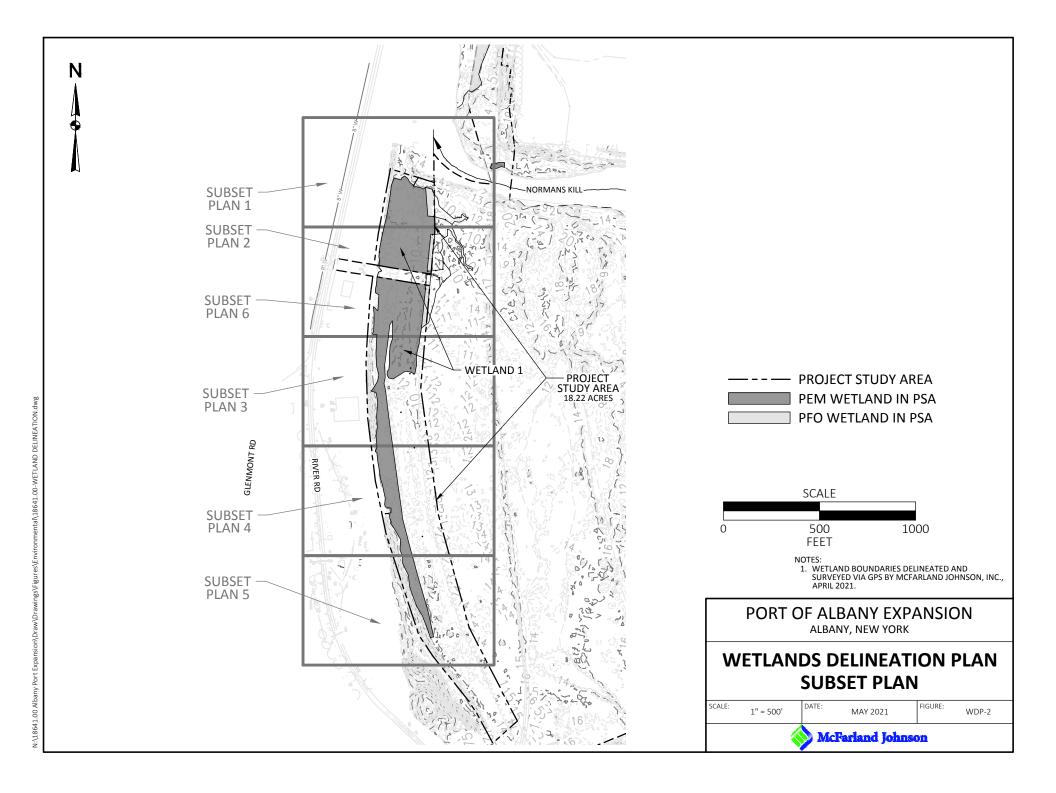
PORT OF ALBANY EXPANSION

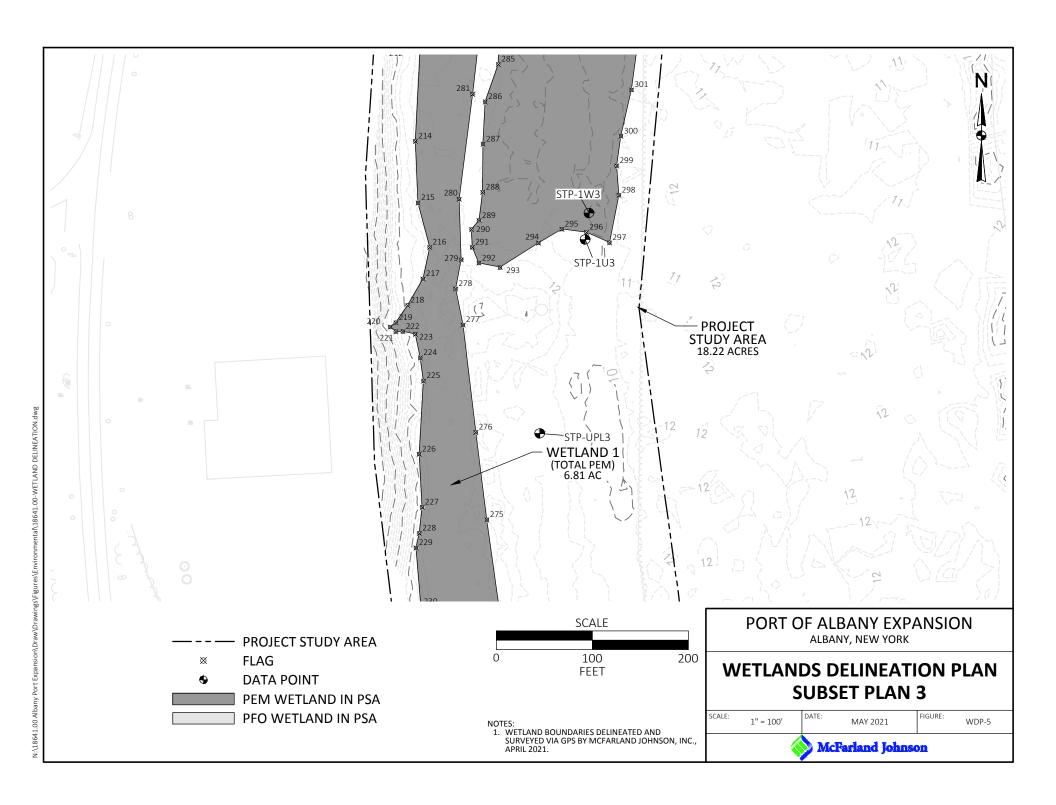
ALBANY, NEW YORK

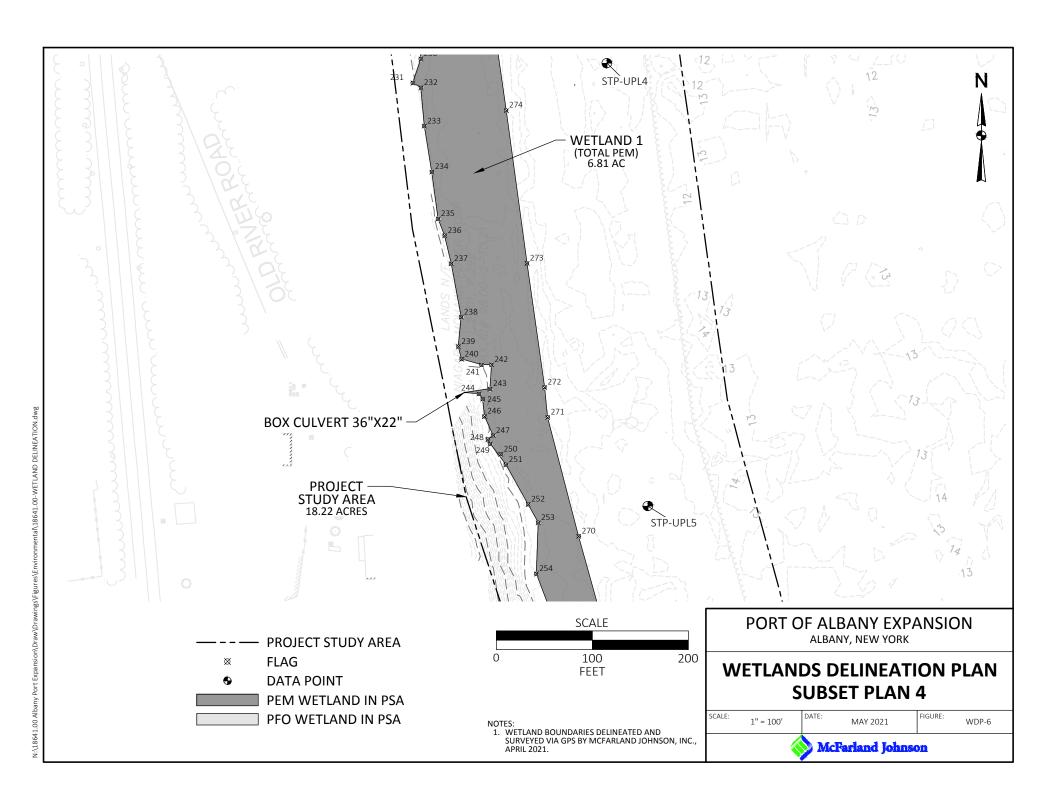
WETLANDS DELINEATION PLAN OVERALL PLAN

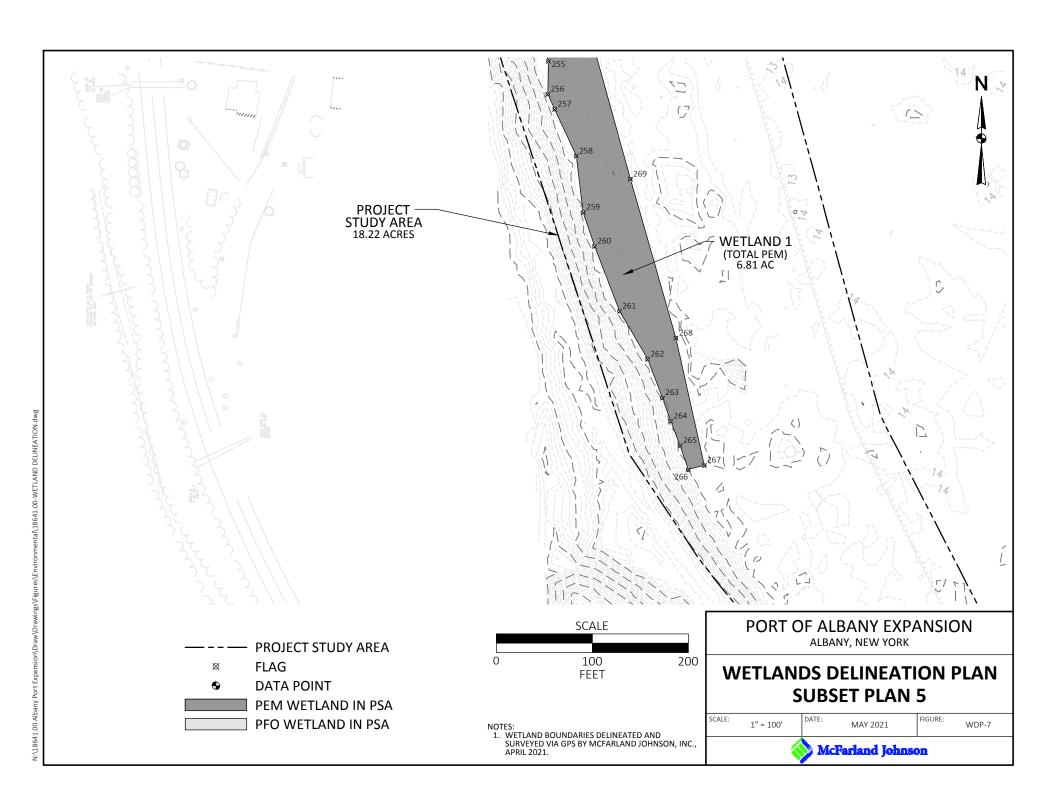
1" = 500' MAY 2021 WDP-1

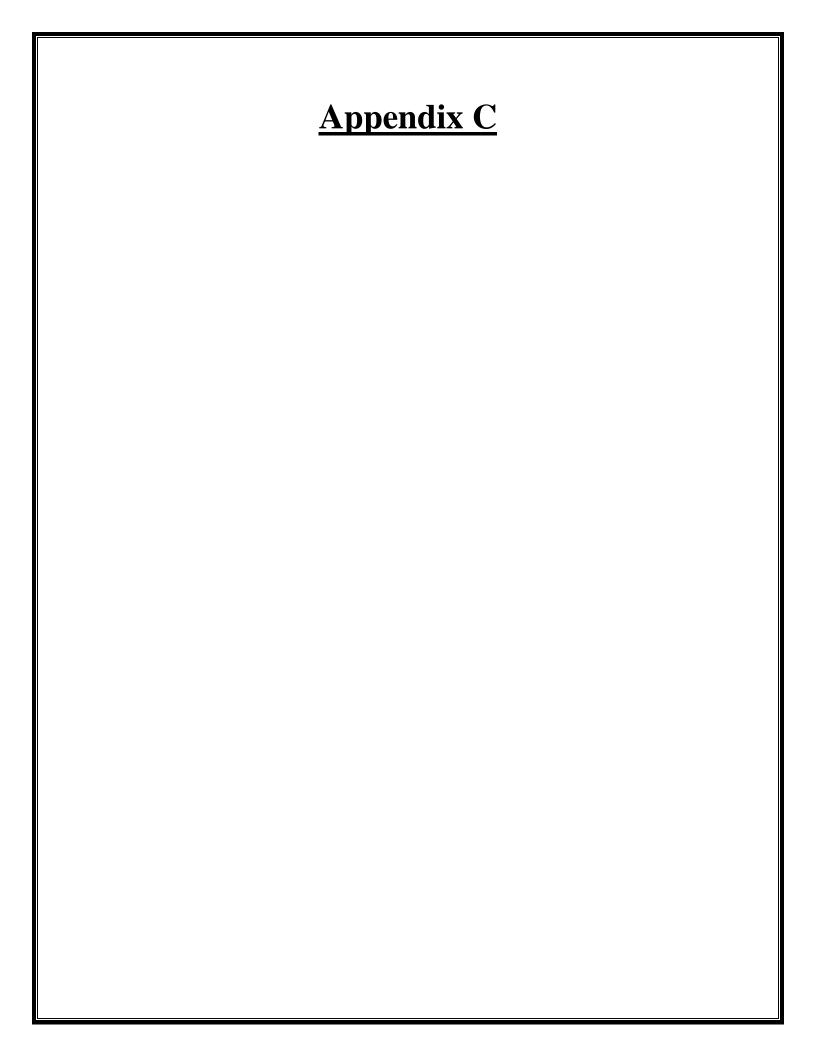
McFarland Johnson











WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expansion Project	City/County: Glenmont/A	bany	Sampling Date: 4/28/2021			
Applicant/Owner: Albany Port Authority			NY Sampling Point: STP-1W3			
Investigator(s): T. Wirickx, C. Steinmuller	Section, Township, Range	e: Bethlehem				
Landform (hillside, terrace, etc.): Floodplain	Local relief (concave, conve		Slope (%): <1			
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat:			Datum: NAD 83			
			cation: PEM			
Soil Map Unit Name: Wayland soils complex (Wo)						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, SoilX_, or Hydrology		al Circumstances" pre				
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	, explain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach site map	showing sampling point loca	tions, transects,	important features, etc.			
Lludranhutia Vagatatian Dragant?	No. In the Complet Aver					
Hydrophytic Vegetation Present? Yes X Hydric Soil Present? Yes X	No Is the Sampled Area within a Wetland?	Yes X	No			
Wetland Hydrology Present?		nd Site ID: Wetland 1				
Remarks: (Explain alternative procedures here or in a se		THE ONE ID: TVOILANCE				
Fill material (fly ash and bottom ash)	parate report.)					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check al			Surface Soil Cracks (B6)			
	ater-Stained Leaves (B9)					
	quatic Fauna (B13)					
<u> </u>	arl Deposits (B15) rdrogen Sulfide Odor (C1)					
I — — — — — — — — — — — — — — — — — — —	kidized Rhizospheres on Living Roots (riows (Co) /isible on Aerial Imagery (C9)			
	esence of Reduced Iron (C4)	· ·	Stressed Plants (D1)			
	ecent Iron Reduction in Tilled Soils (C6		Position (D2)			
<u> </u>	in Muck Surface (C7)		Shallow Aquitard (D3)			
l 	her (Explain in Remarks)	<u> </u>				
Sparsely Vegetated Concave Surface (B8)	, ,	X FAC-Neutra				
Field Observations:						
Surface Water Present? Yes No [Depth (inches):					
Water Table Present? Yes X No [Depth (inches): 13					
Saturation Present? Yes X No [Depth (inches): 11 Wetlan	d Hydrology Present	? Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if	available:				
Remarks:						
Tiemans.						
1						

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Populus deltoides Populus deltoides 	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 25 x 1 = 25
1				FACW species 70 x 2 = 140
2.				FAC species 10 x 3 = 30
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 105 (A) 195 (B)
6.				Prevalence Index = B/A = 1.86
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		•		X 2 - Dominance Test is >50%
1. Phragmites australis	45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Lythrum salicaria	15	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Eleocharis palustris	15	Yes	FACW	data in Remarks or on a separate sheet)
4. Carex spp.	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Penthorum sedoides	10	No	OBL	
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.				
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
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
	,			

Sampling Point: STP-1W3

SOIL Sampling Point: STP-1W3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth Matrix	Redox	(Feature					
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2 10YR 2/1 100					Loamy/Clayey		
2-13 10YR 2/1 100					Sandy	Black: 10YR 2/1 -	
13-18 10YR 2/1 100					Sandy		
¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, C	S=Cover	ed or Coa	ted Sand	Grains. ² Locat	ion: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators:					Indicators for I	Problematic Hydric Soils ³ :	
Histosol (A1)	Polyvalue Below	Surface	(S8) (LR	R R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)	
Histic Epipedon (A2)	MLRA 149B)				Coast Prair	ie Redox (A16) (LRR K, L, R)	
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3				y Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4)	High Chroma Sands (S11) (LRR K, L)			(, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Stratified Layers (A5)	Loamy Mucky M					Surface (S9) (LRR K, L)	
Depleted Below Dark Surface (A11)	Loamy Gleyed M			, ,		inese Masses (F12) (LRR K, L, R)	
Thick Dark Surface (A12)	Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1)	Redox Dark Surface (F6)						
Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)				? Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)		
	<u> </u>				Very Shallow Dark Surface (TF12)		
Sandy Redox (S5)		Redox Depressions (F8)Very Shallow Dark Surface Marl (F10) (LRR K, L) X Other (Explain in Remarks)				• • •	
Stripped Matrix (S6)	Mari (F10) (LRR	K, L)			X Other (Expi	ain in Remarks)	
Dark Surface (S7)							
³ Indicators of hydrophytic vegetation and	wetland hydrology mus	st be pre	esent, unle	ess disturl	oed or problematic.		
Restrictive Layer (if observed):							
Type:							
Depth (inches):					Hydric Soil Prese	ent? Yes X No	
Remarks:							
This data form is revised from Northcentra							
version 7.0 March 2013 Errata. (http://www	-	et/FSE_		ENTS/nrc	s142p2_051293.docx	x) Fill material	
(fly ash and bottom ash) functioning as hy	dric soil.						

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expar	nsion Project	City/County: Gl	enmont/Albany	Sampling Date: 4/29/21			
Applicant/Owner: Albany Port Autl	hority		State:	NY Sampling Point: STP-1U3			
Investigator(s): T. Wirickx, C. Stei		Section, Towns	hip, Range: Bethlehem				
Landform (hillside, terrace, etc.): If			ave, convex, none): None	Slope (%): <1			
Subregion (LRR or MLRA): LRR R,	•		Long:	Datum: NAD 83			
				ification: None			
Soil Map Unit Name: Wayland soils							
Are climatic / hydrologic conditions		-		n in Remarks.)			
Are Vegetation, SoilX			Are "Normal Circumstances" p				
Are Vegetation, Soil	, or Hydrologyn	aturally problematic?	(If needed, explain any answer	's in Remarks.)			
SUMMARY OF FINDINGS -	 Attach site map sh 	owing sampling po	int locations, transects	s, important features, etc.			
Hydrophytic Vegetation Present?	Yes No	X Is the Sam	unlod Aroa				
Hydric Soil Present?		X within a W		No X			
Wetland Hydrology Present?			onal Wetland Site ID:	<u> </u>			
Remarks: (Explain alternative prod							
Tromano: (Explain altomativo pro-	ocaciós noto or m a copar	ato (oporti)					
HYDROLOGY							
Wetland Hydrology Indicators:			· ·	icators (minimum of two required)			
Primary Indicators (minimum of on	•			Surface Soil Cracks (B6)			
Surface Water (A1)		r-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)		ic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)		Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)		gen Sulfide Odor (C1)	Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2) Drift Deposits (B3)		zed Rhizospheres on Livir	· · · —	• • • •			
Algal Mat or Crust (B4)			e of Reduced Iron (C4) Ton Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Iron Deposits (B5)		Muck Surface (C7)	· · · — ·	Shallow Aquitard (D3)			
Inundation Visible on Aerial Im		(Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave		(=		ral Test (D5)			
Field Observations:				· /			
Surface Water Present? Yes	s No X Dep	th (inches):					
Water Table Present? Yes	s No _X Depi s _X No Depi	th (inches): >20					
	s No X Dep		Wetland Hydrology Preser	nt? Yes No X			
(includes capillary fringe)							
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, previous inspe	ections), if available:				
Domovico							
Remarks:							

VEGETATION – Use scientific names of plants. STP-1U3 Sampling Point: Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status Populus deltoides 10 FAC Yes Number of Dominant Species 2. That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant 4. Species Across All Strata: 4 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: 10 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: ____ 15 OBL species x 1 = 30 1. Lonicera tatarica **FACU** FACW species x 2 = 10 _ 2. FAC species x 3 = 3. FACU species 42 x 4 = 4. UPL species 12 x 5 = 60 5. Column Totals: 94 318 (A) (B) 6. Prevalence Index = B/A = 3.38 **Hydrophytic Vegetation Indicators:** 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Poa pratensis 30 Yes FACU 3 - Prevalence Index is ≤3.01 1. 2. Phragmites australis 30 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Galium spp. 10 No 10 UPL No Problematic Hydrophytic Vegetation¹ (Explain) 4 Vicia cracca 5 5. No **FACU** Lotus corniculatus ¹Indicators of hydric soil and wetland hydrology must 6. Solidago canadensis 2 No FACU be present, unless disturbed or problematic. 2 7. Daucus carota No UPL **Definitions of Vegetation Strata:** 8.

10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 89 =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 height. Hydrophytic Vegetation Present? Yes No X =Total Cover

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

9.

1.

3.

Tree - Woody plants 3 in. (7.6 cm) or more in diameter

at breast height (DBH), regardless of height.

SOIL Sampling Point: STP-1U3

Profile Des	scription: (Describe	e to the de	pth needed to docu	ıment th	e indicat	or or con	firm the absence of in	idicators.)	
Depth	Matrix		-	x Featur				,	
(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	2/1 -
12-16	10YR 2/1	100					Sandy		_
¹Type: C=C	Concentration, D=De	nletion RM	I–Reduced Matrix C	S-Cove	red or Co:	ated Sand	I Grains ² Locatio	n: PL=Pore Lining, N	/-Matrix
	I Indicators:	pietion, rtiv	i=i leddced iviatiix, c	00ve	ied of Ook	aled Sanc		oblematic Hydric Sc	
Histoso			Polyvalue Belov	v Surface	e (S8) (LR	RR,		A10) (LRR K, L, ML R	
	Epipedon (A2)	-	MLRA 149B)		` , `	·		Redox (A16) (LRR K	
Black I	Histic (A3)	_	Thin Dark Surfa	ce (S9) (LRR R, N	ILRA 149	B) 5 cm Mucky	Peat or Peat (S3) (LF	RR K, L, R)
Hydrog	gen Sulfide (A4)	_	High Chroma S	ands (S1	1) (LRR k	(, L)	Polyvalue Be	low Surface (S8) (LR	RK, L)
	ed Layers (A5)	-	Loamy Mucky N			(, L)		rface (S9) (LRR K, L	
	ed Below Dark Surfa	ce (A11)	Loamy Gleyed I		2)			ese Masses (F12) (L l	
	Dark Surface (A12)	-	Depleted Matrix					odplain Soils (F19) (I	
	Mucky Mineral (S1)	-	Redox Dark Sui					c (TA6) (MLRA 144A,	145, 149B)
	Gleyed Matrix (S4) Redox (S5)	-	Depleted Dark S Redox Depress				Red Parent N	nateriai (F21) Dark Surface (TF12)	
	ed Matrix (S6)	-	Marl (F10) (LRF	, ,				n in Remarks))
	urface (S7)	-		· · · · · · · · · · · · · · · · · · ·			Other (Explain	ii iii riemano)	
	uuss (0.7)								
³ Indicators	of hydrophytic vegeta	ation and w	etland hydrology mu	ıst be pre	esent, unle	ess distur	bed or problematic.		
Restrictive	Layer (if observed)):					·		
Type:									
Depth (in	ches):						Hydric Soil Presen	t? Yes	No X
Remarks:							ı		
	orm is revised from N	Iorthcentral	and Northeast Reg	ional Sup	plement \	ersion 2.	.0 to reflect the NRCS F	Field Indicators of Hyd	dric Soils
version 7.0	March 2013 Errata.	(http://www	nrcs.usda.gov/Inter	net/FSE_	_DOCUMI	ENTS/nrc	s142p2_051293.docx)		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expansion Project	City/County: Glenmo	ont/Albany	Sampling Date: 4/29/21			
Applicant/Owner: Albany Port Authority		State:	NY Sampling Point: STP-UPL3			
Investigator(s): T. Wirickx, C. Steinmuller	Section, Township, F	Range: Bethlehem				
Landform (hillside, terrace, etc.): Floodplain	Local relief (concave, c		Slope (%): <1			
Subregion (LRR or MLRA): LRR R, MLRA 144A		_ong:	Datum: NAD 83			
	·		sification: None			
Soil Map Unit Name: Wayland soils complex (Wo)						
Are climatic / hydrologic conditions on the site typi			in in Remarks.)			
Are Vegetation, SoilX_, or Hydrolog		Normal Circumstances" p				
Are Vegetation, Soil, or Hydrolog	naturally problematic? (If ne	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site	map showing sampling point l	ocations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	No X Is the Sampled	Aroa				
Hydric Soil Present? Yes			No X			
Wetland Hydrology Present? Yes	No X If yes, optional V					
Remarks: (Explain alternative procedures here o						
(
HYDROLOGY						
Wetland Hydrology Indicators:			licators (minimum of two required)			
Primary Indicators (minimum of one is required; o		Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (B9)					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	` ′ —	r Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils		hic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · — ·	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		X FAC-Neut				
Field Observations:		<u> </u>				
Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes X No	X Depth (inches):					
Saturation Present? Yes No	X Depth (inches): We	etland Hydrology Preser	nt? Yes No X			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous inspection	ns), if available:				
Remarks:						
Hemarks.						
1						

VEGETATION – Use scientific names of plants. STP-UPL3 Sampling Point: Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 10 1. Yes Number of Dominant Species That Are OBL, FACW, or FAC: 2. (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: 33.3% (A/B) Prevalence Index worksheet: 10 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: ____ 15 OBL species 0 x 1 = 90 x 2 = 1. FACW species 180 2. FAC species x 3 = FACU species x 4 = UPL species 0 x 5 = 0 Column Totals: 93 192 (A) 6. Prevalence Index = B/A = 2.06 **Hydrophytic Vegetation Indicators:** 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Phragmites australis **FACW** 3 - Prevalence Index is ≤3.01 Yes Alliaria petiolata **FACU** 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. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. 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. 11. Herb - All herbaceous (non-woody) plants, regardless 93 =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. Hydrophytic 3. Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: STP-UPL3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	c Feature	es				
(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=	Concentration, D=Dep	oletion, RN	M=Reduced Matrix, C	S=Cover	ed or Coa	ited Sand	Grains. ² Location	n: PL=Pore Lining, M=Matrix.	
Hydric Soi	il Indicators:							oblematic Hydric Soils ³ :	
Histos	sol (A1)		Polyvalue Below	Surface	(S8) (LR	R R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)	
Histic	Epipedon (A2)		MLRA 149B) Coast P					Redox (A16) (LRR K, L, R)	
Black	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 149	B)5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)	
Hydro	gen Sulfide (A4)		High Chroma Sa				Polyvalue Bel	ow Surface (S8) (LRR K, L)	
	ied Layers (A5)	-	Loamy Mucky M			(, L)	Thin Dark Surface (S9) (LRR K, L)		
	ted Below Dark Surfac	ce (A11)	Loamy Gleyed M		2)			ese Masses (F12) (LRR K, L, R)	
	Dark Surface (A12)	•	Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (
	Mucky Mineral (S1)	-	Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 14)						
	Gleyed Matrix (S4)		Depleted Dark S		-/)		Red Parent M		
	Redox (S5)	-	Redox Depressions (F8)Very Shallow Dark Surface (** Marl (F10) (LRR K, L) Other (Explain in Remarks)						
	ed Matrix (S6) Surface (S7)	-	Maii (F10) (Lhh	K, L)			Other (Explain in hemarks)		
Dain C	bullace (57)								
³ Indicators	of hydrophytic vegeta	ition and w	etland hydrology mu	st be pre	sent. unle	ess disturl	bed or problematic.		
	e Layer (if observed)		onana nyaronogy ma	or 50 p. 0	00111, 01111				
Type:	,								
Depth (ir	nches):						Hydric Soil Present	? Yes No X	
Remarks:							,		
	orm is revised from N	orthcentra	I and Northeast Region	onal Sup	plement \	/ersion 2.	0 to reflect the NRCS F	ield Indicators of Hydric Soils	
							s142p2_051293.docx)	•	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany	Expansion Project	С	ty/County: Glenmont/	/Albany	Sampling Date:	4/29/21	
Applicant/Owner: Albany Po	rt Authority			State:	— NY Sampling	Point: STP-UPL4	
Investigator(s): T. Wirickx, C		ection, Township, Ran	ge: Bethlehem				
Landform (hillside, terrace, etc		al relief (concave, con		Sic	ope (%): <1		
Subregion (LRR or MLRA): L	·		,	g:		m: NAD 83	
		•			sification: None	III. IVAD 00	
Soil Map Unit Name: Wayland					-		
Are climatic / hydrologic cond		-			in in Remarks.)		
Are Vegetation, Soil				rmal Circumstances" p	_	X No	
Are Vegetation, Soil	, or Hydrology _	naturally prob	lematic? (If needs	ed, explain any answe	rs in Remarks.)		
SUMMARY OF FINDING	GS – Attach site m	ap showing sa	mpling point loc	ations, transects	s, important fea	atures, etc.	
Hydrophytic Vegetation Pres	sent? Yes	No X	Is the Sampled Ar				
Hydric Soil Present?	Yes		within a Wetland?		No X		
Wetland Hydrology Present?		No X	If yes, optional Wet		<u></u>		
Remarks: (Explain alternativ			, , , , , , , , , , , , , , , , , , , ,				
riomano. (Explain alternativ	o procedures here or in	a deparate report.)					
HYDROLOGY							
Wetland Hydrology Indicat	ors:			Secondary Ind	licators (minimum o	f two required)	
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface S	oil Cracks (B6)		
Surface Water (A1)		_Water-Stained Le	aves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	_	Aquatic Fauna (B	13)	Moss Trim Lines (B16)			
Saturation (A3)	_	Marl Deposits (B1	5)	Dry-Season Water Table (C2)			
Water Marks (B1)		_Hydrogen Sulfide		Crayfish Burrows (C8)			
Sediment Deposits (B2)		_	heres on Living Roots	· /			
Drift Deposits (B3)		_	educed Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		_	ction in Tilled Soils (C	· — ·	Geomorphic Position (D2)		
Iron Deposits (B5)		Thin Muck Surfac			Shallow Aquitard (D3)		
Inundation Visible on Ae		Other (Explain in	n Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Sparsely Vegetated Con	icave Surface (B8)			FAC-Neut	rai lest (D5)		
Field Observations:	V N V	D ('					
Surface Water Present?	Yes No X Yes No X	Depth (inches):					
Water Table Present? Saturation Present?	Yes No X			ınd Hydrology Presei	nt? Von	No. V	
(includes capillary fringe)	res NO_X	_ Deptil (iliches).	wella	ilia nyarology Presei	nt? Yes	NoX	
Describe Recorded Data (str	ream gauge monitoring v	well aerial photos	revious inspections)	if available:			
Booonbo Hooordod Bata (off	cam gaage, memoring .	iron, aonai priotoo,	sieviede inopodiione),	ii availabio.			
Remarks:							
I							

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides 2.	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5 6		· 		Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		•		OBL species 0 x 1 = 0
1.				FACW species 45 x 2 = 90
2.				FAC species 15 x 3 = 45
3.				FACU species 20 x 4 = 80
4.				UPL species 10 x 5 = 50
5.				Column Totals: 90 (A) 265 (B)
6.				Prevalence Index = B/A = 2.94
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Phragmites australis	30	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Galium spp.	20	Yes		4 - Morphological Adaptations ¹ (Provide supporting
3. Solidago canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Fragaria vesca	10	No	UPL	
6. Equisetum arvense	5	No	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Phalaris arundinacea	5	No	FACW	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.				Canting/about 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
	100	=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
1				height.
2				
3.				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: STP-UPL4

SOIL Sampling Point: STP-UPL4

Profile Des	scription: (Describe	to the de	epth needed to docu	ment th	e indicate	or or con	firm the absence of inc	dicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	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		
	_								
	_								
		oletion, RI	M=Reduced Matrix, C	S=Cove	red or Coa	ated Sand		: PL=Pore Lining, M=Matrix.	
-	I Indicators:		5 5.		(OO) (I =			oblematic Hydric Soils ³ :	
Histoso	` '		Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)		
	Epipedon (A2) Histic (A3)		Thin Dark Surface	ca (S9) (IRRR M	II RA 140		reat or Peat (S3) (LRR K, L, R)	
	gen Sulfide (A4)		High Chroma Sa				· · · · · · · · · · · · · · · · · · ·	ow Surface (S8) (LRR K, L)	
	ed Layers (A5)		Loamy Mucky M					face (S9) (LRR K, L)	
	ed Below Dark Surfac	ce (A11)	Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LF						
	Dark Surface (A12)	. ,	Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy	Mucky Mineral (S1)		Redox Dark Surface (F6)				Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)	
Sandy	Gleyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)		
Sandy	Redox (S5)		Redox Depressi				Very Shallow Dark Surface (TF12)		
	ed Matrix (S6)		Marl (F10) (LRR	K , L)			Other (Explain in Remarks)		
Dark S	Surface (S7)								
³ Indicators	of hydrophytic vegeta	ution and v	wetland hydrology mu	et ha nra	eent unla	ee dietur	hed or problematic		
	Layer (if observed)		welland hydrology mu	st be pre	esent, unit	ess distui	bed of problematic.		
Type:	, _u, (0.000. 10u)	-							
Depth (in	iches):						Hydric Soil Present	? Yes No X	
Remarks:									
			0		•			eld Indicators of Hydric Soils	
version 7.0	March 2013 Errata. (http://www	v.nrcs.usda.gov/Inter	net/FSE_		ENTS/nrc	s142p2_051293.docx)		

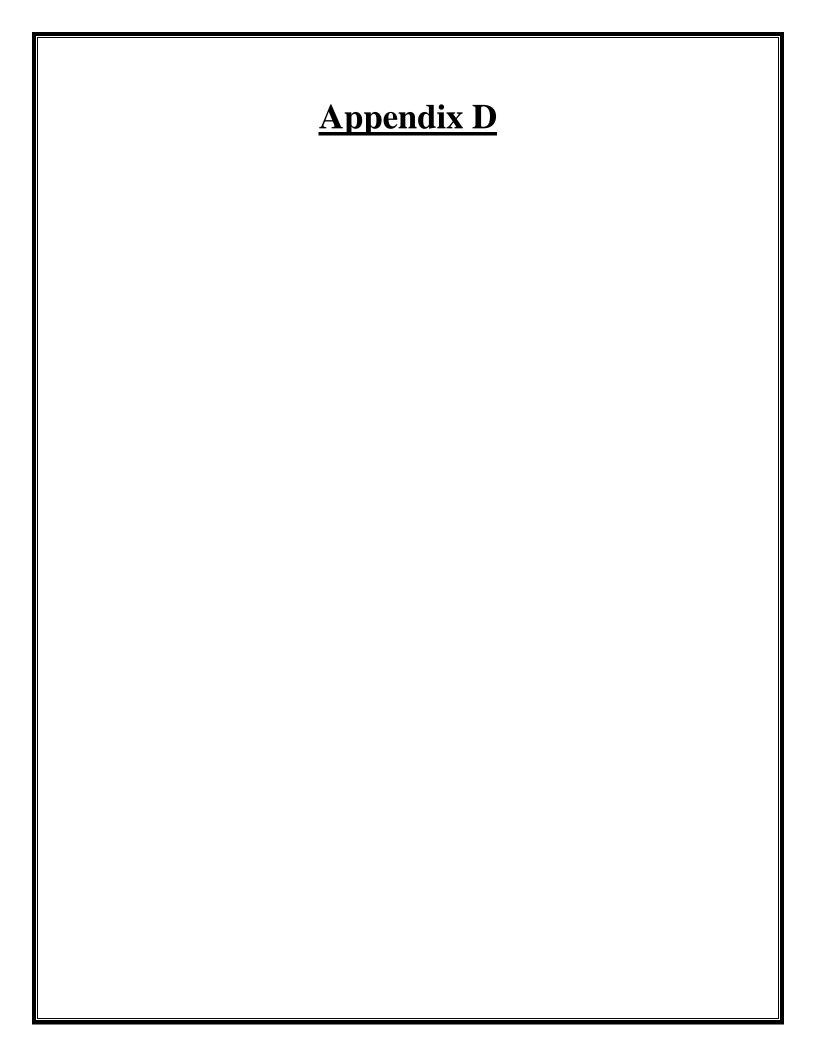
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expansion Project	City/County:	Glenmont/Albany	Sampling Date: 4/29/21			
Applicant/Owner: Albany Port Authority		State:	NY Sampling Point: STP-UPL5			
Investigator(s): T. Wirickx, C. Steinmuller	Section. Town	nship, Range: Bethlehem				
Landform (hillside, terrace, etc.): Floodplain	·	ncave, convex, none): None	Slope (%): <1			
Subregion (LRR or MLRA): LRR R, MLRA 144/	<u> </u>	Long:	Datum: NAD 83			
			sification: None			
Soil Map Unit Name: Wayland soils complex (W						
Are climatic / hydrologic conditions on the site ty			in in Remarks.)			
Are Vegetation, SoilX, or Hydrol						
Are Vegetation, Soil, or Hydrol	ogynaturally problematic?	(If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach s	ite map showing sampling p	oint locations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	0 No X Is the Sa	impled Area				
			No X			
Wetland Hydrology Present? Yes		itional Wetland Site ID:				
Remarks: (Explain alternative procedures here						
Tromaine: (Explain attendance procedures from	or in a doparato roporti,					
HYDROLOGY						
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	licators (minimum of two required)			
Primary Indicators (minimum of one is required			oil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Saturation (A3)	Marl Deposits (B15)		Crayfish Burrows (C8)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres on Liv		Saturation Visible on Aerial Imagery (C9)			
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Iron (C		r Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille		hic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · · — ·	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)			tral Test (D5)			
Field Observations:						
Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes X No	X Depth (inches): >20					
	X Depth (inches):	Wetland Hydrology Preser	nt? Yes No_X			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous ins	spections), if available:				
Demorko						
Remarks:						
1						

VEGETATION – Use scientific names of plants. STP-UPL5 Sampling Point: Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover Species? **Dominance Test worksheet:** Status Number of Dominant Species That Are OBL, FACW, or FAC: 2. (A) Total Number of Dominant 4. Species Across All Strata: (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: Sapling/Shrub Stratum (Plot size: 15) OBL species 0 x 1 = 95 1. FACW species x 2 = 2 ___ 2. FAC species x 3 = x 4 = FACU species UPL species 0 x 5 = 0 Column Totals: 97 196 (A) (B) 6. Prevalence Index = B/A = 2.02 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis **FACW** 3 - Prevalence Index is ≤3.01 Yes Vitis riparia 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. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. 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. Herb - All herbaceous (non-woody) plants, regardless 97 =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. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Disturbed soils with no hydro.

SOIL Sampling Point: STP-UPL5

Profile De	scription: (Describe	to the de	pth needed to docu	ment the	e indicato	or or con	firm the absence of indic	eators.)		
Depth	Matrix			x Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	7.5YR 2.5/1	100					Loamy/Clayey			
6-18	7.5YR 3/1	100					Sandy			
								_		
¹ Type: C=	Concentration, D=Dep	letion, RM	I=Reduced Matrix, C	S=Cover	ed or Coa	ated Sand	Grains. ² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soi	il Indicators:						Indicators for Probl	ematic Hydric Soils ³ :		
Histos	ol (A1)	_	Polyvalue Below	Surface	(S8) (LR	R 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	ce (S9) (I	LRR R, M	LRA 149	B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrog	gen Sulfide (A4)	_	High Chroma Sa	ands (S1	1) (LRR K	(, L)	Polyvalue Below	Surface (S8) (LRR K, L)		
Stratifi	ied Layers (A5)	_	Loamy Mucky M	lineral (F	1) (LRR k	(, L)	Thin Dark Surface	Thin Dark Surface (S9) (LRR K, L)		
Deplet	ted Below Dark Surfac	e (A11)	Loamy Gleyed N	/latrix (F2	2)		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)	_	Redox Dark Surface (F6)				Mesic Spodic (T.	A6) (MLRA 144A, 145, 149B)		
Sandy	Gleyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)			
Sandy Redox (S5)			Redox Depressions (F8)				Very Shallow Dark Surface (TF12)			
Strippe	ed Matrix (S6)	_	Marl (F10) (LRR K, L)				Other (Explain in Remarks)			
Dark S	Surface (S7)	_								
³ Indicators	of hydrophytic vegeta	tion and w	etland hydrology mu	st be pre	sent, unle	ess distur	bed or problematic.			
Restrictive	e Layer (if observed):	:								
Type:										
Depth (ir	nches):						Hydric Soil Present?	Yes No X		
Remarks:							1 -			
	orm is revised from No	orthcentral	and Northeast Region	onal Sun	nlement \	/ersion 2	0 to reflect the NRCS Field	d Indicators of Hydric Soils		
							s142p2_051293.docx)	a maleatere en riyane come		
	,	·	-		-		,			





SUPPLEMENTAL WETLAND DELINEATION REPORT WETLAND DELINEATION PHOTOGRAPHS



Photograph of Wetland 1 near STP-1W3



Photograph of upland area near STP-1U3



SUPPLEMENTAL WETLAND DELINEATION REPORT WETLAND DELINEATION PHOTOGRAPHS



Photograph of upland area near STP-UPL3



Photograph of upland area near STP-UPL4



SUPPLEMENTAL WETLAND DELINEATION REPORT WETLAND DELINEATION PHOTOGRAPHS



Photograph of upland area near STP-UPL5

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Port of Albany Expar	nsion Project	City/County: Gl	enmont/Albany	Sampling Date: 4/29/21			
Applicant/Owner: Albany Port Autl	hority		State:	NY Sampling Point: STP-1U3			
Investigator(s): T. Wirickx, C. Stei		Section, Towns	hip, Range: Bethlehem				
Landform (hillside, terrace, etc.): If			ave, convex, none): None	Slope (%): <1			
Subregion (LRR or MLRA): LRR R,	•		Long:	Datum: NAD 83			
				ification: None			
Soil Map Unit Name: Wayland soils							
Are climatic / hydrologic conditions		-		n in Remarks.)			
Are Vegetation, SoilX			Are "Normal Circumstances" p				
Are Vegetation, Soil	, or Hydrologyn	aturally problematic?	(If needed, explain any answer	's in Remarks.)			
SUMMARY OF FINDINGS -	 Attach site map sh 	owing sampling po	int locations, transects	, important features, etc.			
Hydrophytic Vegetation Present?	Yes No	X Is the Sam	unlod Aroa				
Hydric Soil Present?		X within a W		No X			
Wetland Hydrology Present?			onal Wetland Site ID:				
Remarks: (Explain alternative prod							
Tromano: (Explain altomativo pro-	ocaciós noto or m a copar	ato (oporti)					
HYDROLOGY							
Wetland Hydrology Indicators:			· ·	icators (minimum of two required)			
Primary Indicators (minimum of on	•			oil Cracks (B6)			
Surface Water (A1)		r-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)		ic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)		Deposits (B15)		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Water Marks (B1)		gen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)			
Sediment Deposits (B2) Drift Deposits (B3)		zed Rhizospheres on Livir ence of Reduced Iron (C4)	· · · —	Stressed Plants (D1)			
Algal Mat or Crust (B4)		nt Iron Reduction in Tilled					
Iron Deposits (B5)		Muck Surface (C7)	· · · — ·	Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Im		(Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave		(=		ral Test (D5)			
Field Observations:				. ,			
Surface Water Present? Yes	s No X Dep	th (inches):					
Water Table Present? Yes	s No _X Depi s _X No Depi	th (inches): >20					
	s No X Dep		Wetland Hydrology Preser	nt? Yes No_X_			
(includes capillary fringe)							
Describe Recorded Data (stream g	gauge, monitoring well, ae	rial photos, previous inspe	ections), if available:				
Domovico							
Remarks:							

VEGETATION – Use scientific names of plants. STP-1U3 Sampling Point: Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status Populus deltoides 10 FAC Yes Number of Dominant Species 2. That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant 4. Species Across All Strata: 4 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: 10 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: ____ 15 OBL species x 1 = 30 1. Lonicera tatarica **FACU** FACW species x 2 = 10 _ 2. FAC species x 3 = 3. FACU species 42 x 4 = 4. UPL species 12 x 5 = 60 5. Column Totals: 94 318 (A) (B) 6. Prevalence Index = B/A = 3.38 **Hydrophytic Vegetation Indicators:** 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Poa pratensis 30 Yes FACU 3 - Prevalence Index is ≤3.01 1. 2. Phragmites australis 30 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Galium spp. 10 No 10 UPL No Problematic Hydrophytic Vegetation¹ (Explain) 4 Vicia cracca 5 5. No **FACU** Lotus corniculatus ¹Indicators of hydric soil and wetland hydrology must 6. Solidago canadensis 2 No FACU be present, unless disturbed or problematic. 2 7. Daucus carota No UPL **Definitions of Vegetation Strata:** 8.

10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 89 =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 height. Hydrophytic Vegetation Present? Yes No X =Total Cover

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

9.

1.

3.

Tree - Woody plants 3 in. (7.6 cm) or more in diameter

at breast height (DBH), regardless of height.

SOIL Sampling Point: STP-1U3

Profile Des	scription: (Describe	e to the de	pth needed to docu	ıment th	e indicat	or or con	firm the absence of in	dicators.)		
Depth Matrix			Redox Features					,,		
(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	<u>-</u>	
12-16	10YR 2/1	100					Sandy			
¹Type: C=C	Concentration, D=De	nletion RM	1-Reduced Matrix C	S-Cove	red or Co:	ated Sand	Grains ² Locatio	n: PL=Pore Lining, M=	Matrix	
	I Indicators:	pietion, rtiv	i=i leddced iviatiix, C	00ve	ied of Ook	aled Sanc		oblematic Hydric Soils		
Histoso			Polyvalue Belov	v Surface	e (S8) (LR	RR,		10) (LRR K, L, MLRA		
	Epipedon (A2)	-	MLRA 149B)					Redox (A16) (LRR K, L		
Black H	Histic (A3)	_	Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K,						K, L, R)	
Hydrog	gen Sulfide (A4)	_	High Chroma S	ands (S1	1) (LRR k	(, L)	Polyvalue Be	low Surface (S8) (LRR	K, L)	
	ed Layers (A5)	-	Loamy Mucky N			(, L)		rface (S9) (LRR K, L)		
	ed Below Dark Surfa	ce (A11)	Loamy Gleyed I		2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	Dark Surface (A12)	-	Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Mucky Mineral (S1)	=	Redox Dark Surface (F6) Depleted Dark Surface (F7)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)			
	Gleyed Matrix (S4) Redox (S5)	-	Redox Depress					Dark Surface (TF12)		
	ed Matrix (S6)	-	Marl (F10) (LRF	, ,			Other (Explain in Remarks)			
	urface (S7)	-		, _ ,						
	(- /									
³ Indicators	of hydrophytic vegeta	ation and w	retland hydrology mu	ıst be pre	esent, unle	ess distur	bed or problematic.			
Restrictive	Layer (if observed)):								
Type:										
Depth (in	ches):						Hydric Soil Presen	t? Yes	No X	
Remarks:										
								ield Indicators of Hydric	c Soils	
version 7.0	March 2013 Errata.	(http://www	nrcs.usda.gov/Inter	net/FSE_		ENTS/nrc	s142p2_051293.docx)			