

Upland P5-P - View facing north.



Upland P5-P - Soils

Segment 8 – Package 5A

SITE PHOTOGRAPHS

Project/Site:	Champlain H	ludson Power Expr	ress City/Co	unty: Bethlehem	and New Scot	tland, Albany Cou	Sampling Date:	11/08/2021
Applicant/Owner:	•	Kiewitt	Engineering Group	· · ·	Sta	ate: New York	Sampling Point:	WF-1W
Investigator(s):		MA KC	Section	, Township, Rang	 ge:	Town of	f New Scotland	
Landform (hillslope, te	rrace, etc):	Swale		cave, convex, no		concave	Slope	(%): 0-3
Subregion (LRR or ML		LRR R		2.59263686				wgs 1984
Soil Map Unit Name:			ninebeck silty clay loam			NWI classificatio	n:	
			nis time of year? Yes	X No	(If no,	- explain in Remarks	s.)	
Are Vegetation X	, Soil X	, or Hydrology	X significantly disturbe	ed? Ar	e "Normal Circ	cumstances" presei	nt? Yes X	(No
			naturally problemat		needed, expla	nin any answers in l	Remarks.)	
SUMMARY OF FI	NDINGS - At	tach site map	showing sampling	point location	ns, transec	ts, important f	eatures, etc.	
Hydrophytic Vegetat		Yes X		Is the Sample		•	·	
Hydric Soil Present?		Yes		within a Wetl		Yes X	No	
Wetland Hydrology			No No			: ID:	_	=
Troquita Figure 10gg								
Remarks: (Explain a PEM w			eparate report.) way. Vegetation, hydrolog	y and soils are al	II disturbed due	e to proximity to rai	Iroad.	
Identified as \	/Vetland EΓ	DR-F on wet	land mapping ar	nd in repor	t text.			
HYDROLOGY								
Wetland Hydrology	/ Indicators:							
Primary Indicators (minimum of one r	required; check all f	that apply)			Secondary Indica	tors (minimum of tv	wo required)
X Surface Water	(A1)		Water-Stained Leaves	(B9)		Surface Soil	,	
X High Water Tab	ole (A2)		Aquatic Fauna (B13)	,		Drainage Pa	tterns (B10)	
X Saturation (A3))		Marl Deposits (B15)			Moss Trim Li	ines (B16)	
Water Marks (E	31)	_	Hydrogen Sulfide Odo	ır (C1)		Dry-Season	Water Table (C2)	
Sediment Depo	osits (B2)	_	Oxidized Rhizosphere	s on Living Roots	s (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Presence of Reduced	Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Cr	ust (B4)	_	Recent Iron Reduction	ı in Tilled Soils (C	26)	Stunted or S	tressed Plants (D1))
Iron Deposits (I	B5)	_	Thin Muck Surface (C	7)		X Geomorphic	Position (D2)	
Inundation Visit	ble on Aerial Ima	gery (B7)	Other (Explain in Rem	arks)		Shallow Aqu	itard (D3)	
Sparsely Veget	tated Concave Su	urface (B8)					aphic Relief (D4)	
						X FAC-Neutral	Test (D5)	
Field Observations								
Surface Water Prese		es X No	Depth (inches):	0.5				
Water Table Present	t? Ye		Depth (inches):	3				
Saturation Present?		es X No	Depth (inches):	0	Wetland Hydr	rology Present?	Yes X	No
(includes capillary fr	inge)				-			
Describe Recorded	Data (stream gau	uge, monitoring wel	l, aerial photos, previous i	nspections), if av	ʻailable:			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: WF-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
Tree Stratum (Plot size: 30 Feet) 1 2		Species?		Total Number of Dominant Species Across All Strata: 1 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:15 Feet) 1 2 3		- -		OBL species 0 x 1 = 0 FACW species 70 x 2 = 140 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 5 x 5 = 25
4. 5. 6.				Column Totals: 75 (A) 165 (B) Prevalence Index = B/A = 2.2
7	0	= Total Cov	 er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Phragmites australis / Common reed Salix / Willow . 4.				X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5	_			¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. 9. 10.	_	_		Definitions of Vegetation Strata
11 12		-	- -	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet) 1	<u>75</u>	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
2. 3. 4.				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4 .	0	= Total Cov	er	Hydrophytic Vegetation
Remarks: (Explain alternative procedures here or in a separate	o roport)			Present? Yes X No
пеналь. (Ехріані ацентаціче ріосечитез пете от ін а зерагаці	e report.)			

SOIL Sampling Point: WF-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 2/1 0-12 100 Sandy Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 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) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): No X Remarks: Soil likely disturbed fill from railroad. Gravel refusal at 12 inches.



Wetland F - View facing south

SITE PHOTOGRAPHS

Project/Site:	Champlain H	udson Power Express	Gity/Cou	unty: New So	cotland, Albany County.	Sampling Date:	11/08/2021
Applicant/Owner:			gineering Group	-	State: New York	· · ·	WF-1U
Investigator(s):		MA, KC	<u> </u>	Township, Range:		of New Scotland	
Landform (hillslope, te	rrace, etc):	Upland mound		cave, convex, none			(%): 0-3
Subregion (LRR or ML	_RA):	LRR R		59254897			n: WGS 1984
Soil Map Unit Name:	· -		ebeck silty clay loam		NWI classificati	on:	
Are climatic / hydrolog			time of year? Yes	X No	(If no, explain in Remarl	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	ed? Are '	 'Normal Circumstances" pres	ent? Yes >	X No
			naturally problemati		eded, explain any answers in	Remarks.)	
·					, transects, important	features, etc.	
Hydrophytic Vegetat		Yes		Is the Sampled	•	·	
Hydric Soil Present?		Yes	No X	within a Wetlar		No X	
Wetland Hydrology		Yes	No X		Wetland Site ID:		_
, 0,							
		ures here or in a sepa etland F on berm adja					
HYDROLOGY							
Wetland Hydrology	/ Indicators:						
Primary Indicators (minimum of one re	equired; check all that	apply)		Secondary Indic	ators (minimum of t	wo required)
Surface Water	(A1)		Water-Stained Leaves	(B9)	Surface So	il Cracks (B6)	
High Water Tab	ole (A2)	_	Aquatic Fauna (B13)		Drainage P	atterns (B10)	
Saturation (A3))	_	Marl Deposits (B15)		Moss Trim	Lines (B16)	
Water Marks (E	31)	_	Hydrogen Sulfide Odor	r (C1)	Dry-Seasor	n Water Table (C2)	
Sediment Depo	osits (B2)	_	Oxidized Rhizospheres	s on Living Roots (C3) Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation '	Visible on Aerial Ima	agery (C9)
Algal Mat or Cr	ust (B4)	<u> </u>	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or	Stressed Plants (D1	I)
Iron Deposits (I	35)		Thin Muck Surface (C7	7)	Geomorphi	c Position (D2)	
Inundation Visi	ble on Aerial Imag	jery (B7)	Other (Explain in Rema	arks)	Shallow Aq	uitard (D3)	
Sparsely Veget	tated Concave Su	rface (B8)			Microtopog	raphic Relief (D4)	
					FAC-Neutra	al Test (D5)	
Field Observations							
Surface Water Prese		s No X	Depth (inches):				
Water Table Present		No X					
Saturation Present?			Depth (inches):	w	etland Hydrology Present?	Yes	No Y
(includes capillary fr		NO _X_	Deptir (inches).		etiana riyarology i resent:		<u> </u>
(molades capillary ii							
Describe Recorded	Data (stream gau	ge, monitoring well, a	erial photos, previous ir	nspections), if avail	able:		
Danada							
Remarks:							

Absolute Dominant Indicator Systems (Plot size: 30 Feet) % Cover Species? Status Populus grandidentata i Big-tooth aspen 50 Yes FACU Decreus abab (White oak 10 No FACU Prunus serotina / Black cherry 5 No FACU Providence Index worksheet: Total % Cover of Multiply by: Providence Index worksheet: Total % Cover Of Species O x 1 = 0	GETATION - Use scientific names of plants.				Sampling Point: WF-1U
Absolute Spacing Absolute Spacing Pominant Indicators Spacings? Status Total Number of Dominant Space					Dominance Test worksheet:
Absolute Dominant Indicator Species Status Total Number of Dominant Species Status Species Specie					Number of Dominant Species
Absolute					·
Populus grandidentate Big-tooth aspen 50 Yes FACU Querous alba White oak 10 No FACU Species Across All Statas: 4 (if Species Across A		Absolute	Dominant	Indicator	That Ale OBL, FACW, OF FAC.
Populus grandidentate Big-tooth aspen 50 Yes FACU Course alba White oak 10 No FACU Species Across All Strata: 4 (if the species Across	ree Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	
Decrease about White cask					Total Number of Dominant
Prunus serotina / Black cherry 5 No FACU					Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (in the property of the p					
That Are OBL, FACW, or FAC: 50.0 (v				FACU	Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FACW species 25 x 3 = 75 FACU species 25 x 3 = 75 FACU species 65 x 4 = 260 UPL species 10 x 5 = 50 Column Totals: 100 (A) 385 Prevalence Index = BIA = 3.85 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index 33.0¹ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index 33.0¹ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index 33.0¹ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index 35.0¹ 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations that Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter 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. Woody vines - All woody vines greater than 3.28 ft in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft it all. Woody vines - All woody vines greater than 3.28 ft in height.	·				·
Prevalence Index worksheet: Multiply by:	·				That Are Obl., FACW, OF FAC.
Total % Cover of:		·	<u> </u>	<u> </u>	Provalence Index worksheet:
Species Spec	-				
Sapling/Shrub Stratum (Plot size: 15 Feet 20 Yes FAC FACW species 0 x 2 = 0 0 FACW species 25 x 3 = 75 FACW species 25			- Total Cov		
Rhamnus cathartica / European buckthorn 20 Yes FAC FAC species 25 x 3 = 75			IOIAI COV	/eı	OBL species0 x 1 =0
FACU species 23 X 2 7 260 FACU species 65 x 4 = 260 UPL species 10 x 5 = 50 Column Totals: 100 (A) 385 Prevalence Index = B/A = 3.85 I - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.85 Prevalence Index = B/A = 3.85 I - Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations' (Provide supporting Problematic Hydrophytic Vegetation) 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 breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Provides the prevalence index = B/A = 3.85 I - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.85 I - Rapid Test for Hydrophytic Vegetation 5 - FACU 4 - Morphoplogical Adaptations' (Provide supporting the prevalence of height in the prevalence of height in the prevalence index = 3.01 Provides Index = B/A = 3.85 Prevalence Index = B/A = 3.85 I - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is provided in the prevalence					FACW species0 x 2 =0
FACU species 65 x 4 = 260 UPL species 10 x 5 = 50 Column Totals: 100 (A) 385 Prevalence Index = B/A = 3.85 Prevalence Index = B/A = 5.85 Prevalence Inde	•	20	Yes	FAC	FAC species 25 x 3 = 75
UPL species 10 x5 = 50 Column Totals: 100 (A) 385 Prevalence Index = BIA = 3.85 Prevalence					
Column Totals: 100 (A) 385 Prevalence Index = B/A = 3.85 Pr					
Prevalence Index = B/A = 3.85 20					· — — — — — — — — — — — — — — — — — — —
Prevalence Index = B/A = 3.85					Column Totals:(A)(8)(9)
Perb Stratum Plot size: 5 Feet 20					
20	·				Prevalence Index = B/A = 3.85
Problematic Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹ 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 - Problematic Hydrophytic Vegetation or problematic. 2 - Problematic Hydrophytic Vegetation Strata 2 - Problematic Hydrophytic Vegetation 2 - Problematic Hydrophytic Vegetation Strata 2 - Problematic Hydrophytic Vegetation 3 - Problematic Hydrophytic Vegetation 4 - Morphytic Vegetation 4 - Problematic Hydrophytic Vegetation 4 - P	·				
Stratum (Plot size: 5 Feet)			= Total Cov	ver	Hydrophytic Vegetation Indicators:
1. Fragaria vesca / Wild strawberry, Wood strawberry 2. Rhamnus cathartica / European buckthorn 3. Yes FAC 3. Prevalence Index ≤3.0¹ 4. Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5. 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 'Definitions of Vegetation Strata 7. 'Definitions of Vegetation Strata 8. 'Definitions of Vegetation Strata 9. 'Definitions of Vegetation Strata 15. 'Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 8. 'Left - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. 8. 'Woody vines - All woody vines greater than 3.28 ft in height. 9. 'Total Cover Hydrophytic Vegetation	erh Stratum (Plot size: 5 Feet)	-	_	<u>.</u>	
2. Rhamnus cathartica / European buckthorn 5. Yes FAC 3 Prevalence Index ≤3.0¹ 4 Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5		10	Voo	UDI	
4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (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 breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation					
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15 = Total Cover					breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 Feet) 1.	<u>د</u>				
Moody Vine Stratum (Plot size: 30 Feet) 1.		15	_ = Total Cov	/er	
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	/oody Vine Stratum (Plot size: 30 Feet)				
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Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation					size, and woody plants less than 3.28 ft tall.
4. O = Total Cover Hydrophytic Vegetation					Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Vegetation					, ,
	·				
Vegetation		0	_ = Total Cov	/er	Hydronhytic
Present? Yes No X					

SOIL Sampling Point: WF-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Color (moist) Type¹ Loc2 (inches) Texture Remarks 10YR 2/1 10YR 5/4 8-0 60 С М Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 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) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): Yes X No Remarks: Gravel refusal at 8in



Upland F - View facing west



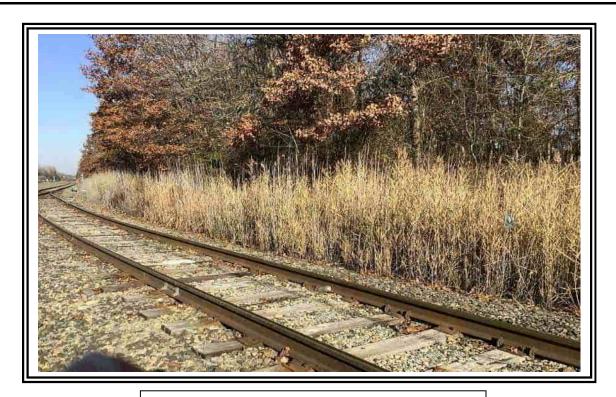
Upland F - Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	Ison Power Expre	ess City	/County: Ne	ew Scotland, Alba	any County.	Sampling Date:	11/08/2021
Applicant/Owner:	•	•	Engineering Group	,	Sta	ate: New York		WC-1W
Investigator(s):		MA, KC		tion, Township, Ra			or New Scotland	
Landform (hillslope, te		Swale		concave, convex,		concave		(%): 0-3
Subregion (LRR or MI				42.5866413				: WGS 1984
			inebeck silty clay loar		Long:			. WG3 1904
Soil Map Unit Name:					416	NWI classificati	-	
Are climatic / hydrolog	•	* * * * * * * * * * * * * * * * * * * *	•			explain in Remark	•	
Are Vegetation X						cumstances" prese		No
Are Vegetation	, Soil,	or Hydrology	naturally proble	matic?	(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF F	INDINGS - Atta	ch site map s	howing samplin	ng point locati	ons, transec	ts, important	features, etc.	
Hydrophytic Vegeta	tion Present?	Yes X	No	Is the Sam	pled Area			
Hydric Soil Present		Yes X		within a W	•	Yes X	No	
1 1						- 1es <u> </u>		=
Wetland Hydrology	Present?	Yes X	No	li yes, opud	onai vvetiano Site	e ID.	VVC-TVV PEIVI	
Remarks: (Explain a	alternative procedure	es here or in a se	parate report.)					
			egetation, hydrology,	and soil are distur	bed due to the pr	roximity to tracks.	Wetland receives ru	noff from
tracks	and adjacent berm.	Unable to obtain	soil sample deeper th	nan 3 inches due t	o gravel from rail	Iroad.		
	Identified on	Motland F	DD C on wet	land manni	and in m	oport tout		
HYDROLOGY	identilled as	welland E	DR-C on wet	іапи тарріі	ig and in i	eport text.		
Wetland Hydrolog	v Indicators:							
, ,	minimum of one req	uired: check all th	nat annly)			Secondary Indic	ators (minimum of tv	vo required)
		uned, check all ti	Water-Stained Lea				il Cracks (B6)	vo required)
X Surface Water	` '	_	-	` '			` '	
X High Water Tal	` '	_	_ Aquatic Fauna (B1	,			atterns (B10)	
X Saturation (A3	*	_	_ Marl Deposits (B1	•			Lines (B16)	
Water Marks (I	•	_	_ Hydrogen Sulfide (Water Table (C2)	
Sediment Dep	, ,	_	 Oxidized Rhizosph 	_	ots (C3)	Crayfish Bu		
Drift Deposits ((B3)	_	Presence of Redu	ced Iron (C4)		Saturation \	Visible on Aerial Ima	gery (C9)
Algal Mat or Ci	rust (B4)	_	Recent Iron Reduc	ction in Tilled Soils	(C6)	Stunted or	Stressed Plants (D1))
Iron Deposits ((B5)	_	_ Thin Muck Surface	e (C7)		X Geomorphi	c Position (D2)	
Inundation Visi	ible on Aerial Image	ry (B7)	Other (Explain in F	Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vege	tated Concave Surfa	ace (B8)	_			Microtopog	raphic Relief (D4)	
						X FAC-Neutra	al Test (D5)	
						<u> </u>		
Field Observations	 s:							
Field Observations Surface Water Pres	_	X No	Depth (inches):	0.5				
	sent? Yes	X No	Depth (inches): Depth (inches):	0.5				
Surface Water Pres	sent? Yes at? Yes		— · · · · ·		Wetland Hyd	rology Present?	Yes X	No
Surface Water Pres Water Table Presen	sent? Yes nt? Yes Yes Yes	X No	Depth (inches):	0	Wetland Hyd	rology Present?	Yes X	No
Surface Water Pres Water Table Present? Saturation Present?	sent? Yes nt? Yes Yes Yes	X No	Depth (inches):	0	Wetland Hyd	rology Present?	Yes X	No
Surface Water Pres Water Table Present Saturation Present? (includes capillary for	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Present Saturation Present? (includes capillary for	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Present Saturation Present? (includes capillary for	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Present Saturation Present? (includes capillary for	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No
Surface Water Pres Water Table Presen Saturation Present? (includes capillary fi Describe Recorded	sent? Yes nt? Yes ? Yes ringe)	X No X No	Depth (inches): Depth (inches):	0	_	rology Present?	Yes X	No

		_		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
0.4 (5.4)	Absolute	Dominant	Indicator	
e Stratum (Plot size: 30 Feet)	% Cover	Species?	Status	Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A
		-		Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
oling/Shrub Stratum (Plot size: 15 Feet)		-		OBL species 10 x 1 = 10 FACW species 70 x 2 = 140
,				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 80 (A) 150
				(1) 100 (1) 10
				Prevalence Index = B/A = 1.88
				1.00
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
o Stratum (Plot size: 5 Feet)				X 1 - Rapid Test for Hydrophytic Vegetation
Phragmites australis / Common reed	70	Yes	FACW	X 2 - Dominance Test is >50%
ythrum salicaria / Purple loosestrife	10	No	OBL	X 3 - Prevalence Index ≤3.0¹
		_		4 - Morphological Adaptations ¹ (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must
		_		be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
				John Mondo of Vogotation Ottata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a
				breast height (DBH), regardless of height.
	80	= Total Cov	 er	Sapling/shrub - Woody plants less than 3 in. DBH and
ody Vine Stratum (Plot size: 30 Feet)			OI.	greater than or equal to 3.28 ft (1 m) tall.
/ (Fier e-Zer				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
		- (-	height.
	0	= Total Cov	er	
		_		Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: WC-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10Y 2.5/1 0-3 100 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 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) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) X Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): Yes X No Remarks: Gravel refusal at 3in



Wetland C - View facing north



Wetland C - Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hı	udson Power Express	Gity/Cou	ınty: New S	cotland, Albany County	Samp	ling Date:	11/08/2021
Applicant/Owner:			gineering Group		State: New		_	WC-1U
Investigator(s):		MA, KC	Section,	Township, Range		Town of New	_	
Landform (hillslope, ter	rrace, etc):	Upland mound	Local relief (conc	cave, convex, none	e): conv	ex	Slope	(%): 0-3
Subregion (LRR or ML	.RA):	LRR R		58670066		37842765	Datum	: WGS 1984
Soil Map Unit Name:			ebeck silty clay loam			sification:		
Are climatic / hydrologi	ic conditions on th	e site typical for this f	time of year? Yes	X No	(If no, explain in F	Remarks.)		
			significantly disturbe		"Normal Circumstances	" present?	Yes X	No
			naturally problemation		eeded, explain any ans	wers in Rema	rks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map sh	 owing sampling p	oint locations	s, transects, impo	rtant featu	res, etc.	
Hydrophytic Vegetat	ion Present?	Yes	No X	Is the Sampled	d Area			
Hydric Soil Present?		Yes	No X	within a Wetlan			No X	
Wetland Hydrology F		Yes	No X	1	Wetland Site ID:			-
				,,				
		ures here or in a sepa etland C located to be	rate report.) rm adjacent to railway.					
HYDROLOGY								
Wetland Hydrology	/ Indicators:							
"		equired; check all that	apply)		Secondar	y Indicators (r	ninimum of tv	vo required)
Surface Water (Water-Stained Leaves	(B9)		ace Soil Crack		
High Water Tab	` '		Aquatic Fauna (B13)	()		nage Patterns	• •	
Saturation (A3)	, ,	_	Marl Deposits (B15)			s Trim Lines (E	, ,	
Water Marks (B	31)		Hydrogen Sulfide Odor	(C1)	 Dry-9	Season Water	Table (C2)	
Sediment Depo	osits (B2)		Oxidized Rhizospheres	on Living Roots (C3) Cray	fish Burrows ((C8)	
Drift Deposits (I	B3)		Presence of Reduced I	ron (C4)	Satu	ration Visible	on Aerial Ima	gery (C9)
Algal Mat or Cri	ust (B4)	<u> </u>	Recent Iron Reduction	in Tilled Soils (C6) Stun	ted or Stresse	ed Plants (D1))
Iron Deposits (E	35)	<u> </u>	Thin Muck Surface (C7	·)	Geor	morphic Positi	on (D2)	
Inundation Visit	ble on Aerial Imag	jery (B7)	Other (Explain in Rema	arks)	Shall	low Aquitard (D3)	
Sparsely Veget	ated Concave Sur	rface (B8)			Micro	otopographic I	Relief (D4)	
					FAC-	Neutral Test ((D5)	
Field Observations	•							
Surface Water Prese		s No X	Depth (inches):					
Water Table Present		s No X	· · · · · · · · · · · · · · · · · · ·					
Saturation Present?			· · · · · 		etland Hydrology Pre	sent? Y	es	No X
(includes capillary fri		, NO _X	Depti (inches).	"	retiand riyurology i re	Sellt: I		<u> </u>
(includes capillary in								
Describe Recorded I	Data (stream gauເ	ge, monitoring well, a	erial photos, previous in	spections), if avai	lable:			
Demodes								
Remarks:								

				Dominance Test worksheet:
				Number of Dominant Species
	21 -1-4-	5		That Are OBL, FACW, or FAC: 3 (A)
	Absolute	Dominant	Indicator	
ee Stratum (Plot size:30 Feet)	% Cover	Species?	Status	Total Number of Dominant
Quercus rubra / Northern red oak	40	Yes	FACU	
Acer rubrum / Red maple	15	Yes	FAC	Species Across All Strata: 6 (B)
Prunus serotina / Black cherry	<u>10</u>	No	FACU	
•		_		Percent of Dominant Species
Populus tremuloides / Quaking aspen	5	No No	<u>FACU</u>	That Are OBL, FACW, or FAC: 50.0 (A/
				That rie ODE, 17(OT), OTT. C.
				Prevalence Index worksheet:
			-	
<u> </u>		- Total Cov		Total % Cover of: Multiply by:
·-· · · · · · · · · · · · · · · · · · ·	70	_ = Total Cov	er	OBL species 0 x 1 = 0
oling/Shrub Stratum (Plot size: 15 Feet)				FACW species 0 x 2 = 0
Frangula alnus / Glossy false buckthorn	15	Yes	FAC	FAC species 40 x 3 = 120
				FACU species 75 x 4 = 300
				UPL species 0 x 5 = 0
				Column Totals: 115 (A) 420
				Prevalence Index = B/A = 3.65
	15	_ = Total Cov	er	Hydrophytic Vegetation Indicators:
b Stratum (Plot size: 5 Feet)				1 - Rapid Test for Hydrophytic Vegetation
Frangula alnus / Glossy false buckthorn	10	Yes	FAC	2 - Dominance Test is >50%
Rubus / Blackberry	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
,				1
Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	4 - Morphological Adaptations¹ (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
			-	-
				11 disators of hydric soil and wetland hydrology must
				¹Indicators 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.
	30	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and
ody Vine Stratum (Plot size: 30 Feet)			.	greater than or equal to 3.28 ft (1 m) tall.
ody vine Stratum (Flot Size				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3,28 ft tall.
				, , , , , , , , , , , , , , , , , , , ,
			- —	Woody vines - All woody vines greater than 3.28 ft in
		_		height.
		- Tatal Cov		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X

SOIL Sampling Point: WC-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Type¹ Loc² (inches) Color (moist) Texture Remarks 10YR 2/1 100 0-10 Crse Sndy Lm 10-15 10YR 4/4 100 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 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) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): No X Remarks:



Upland C - View facing southwest



Upland C - Soils

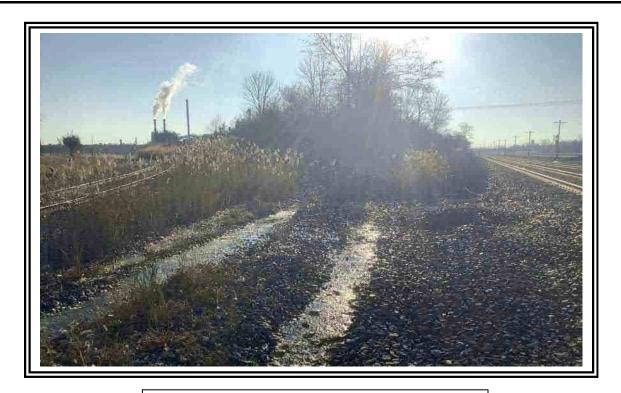
SITE PHOTOGRAPHS

Project/Site:	Champlain H	udson Power Expre	ess	City/Cour	nty: Ne	w Scotland, Alb	any County.	Sampling Date:	11/08/2021
Applicant/Owner:	•	Kiewitt F	Engineering Gro	- oup		Sta	ate: New York	Sampling Point:	WB-1W
Investigator(s):		MA, KC		Section,	Township, Ra			of New Scotland	
Landform (hillslope, te	rrace, etc):	Swale	Local r	- relief (conca	ave, convex, i	none):	concave	Slop	e (%): 0-3
Subregion (LRR or ML		LRR R	Lat:		8629789				m: WGS 1984
Soil Map Unit Name:			Udorthents				NWI classificat		
Are climatic / hydrologi	ic conditions on th	ne site typical for thi	s time of year?	Yes >	X No	(If no,	– explain in Remar	ks.)	
Are Vegetation X		• •	•			Are "Normal Circ	cumstances" pres	ent? Yes	X No
		, or Hydrology				(If needed, expla	ain any answers ir	n Remarks.)	
SUMMARY OF FI						ons transec	ts. important	features, etc.	
Hydrophytic Vegetat		Yes X	No	·	Is the Sam			•	
Hydric Soil Present?		YesX		_	within a We	•	Yes X	No	
Wetland Hydrology I		Yes X		_			→ ID:		_
TVO (and Tryanology I				_		Tia, Woqana Oile		WB WY EW	
Remarks: (Explain a									
		tween railroad track		hydrology a	ind soils are o	disturbed due to	proximity to railro	ad. Unable to obtain	ın soil sample
deeper		e to gravel from rail		_		<u>.</u>			
HYDROLOGY	——Identifi	ied as Wetla	ind EDR E	3 on we	etland ma	apping and	d in report t	ext.	
Wetland Hydrology	/ Indicators:								
Primary Indicators (r		oquirod: chock all th	nat apply)				Socondary India	ators (minimum of	two required)
X Surface Water		squired, check all ti	Water-Staine	ad Leaves (B0)			il Cracks (B6)	two required)
X High Water Tab	` '	_	_ Aquatic Faur	•	D9)			Patterns (B10)	
X Saturation (A3)		_	_ Aquatic radi Marl Deposit	. ,				Lines (B16)	
Water Marks (E		_	Hydrogen Su	` '	(C1)			n Water Table (C2)	ì
Sediment Depo	·	_	Oxidized Rhi			ote (C3)		urrows (C8)	
Drift Deposits (_	Presence of	-	_	013 (00)		Visible on Aerial In	nagery (CQ)
X Algal Mat or Cr	*	_	_		n Tilled Soils	(C6)		Stressed Plants (D	
Iron Deposits (F		_	Thin Muck S			(00)	X Geomorphi	,	'1)
_ '	ble on Aerial Imag	——————————————————————————————————————	Other (Expla	, ,				uitard (D3)	
	ated Concave Su		_ Other (Expla	III III IXEIIIAI	iko)			raphic Relief (D4)	
Sparsely veget	ated Correave Sur	nace (Bo)					X FAC-Neutra		
							<u>//</u>		
Field Observations	::								
Surface Water Prese	ent? Yes	s <u>X</u> No	Depth (inch	nes):	1				
Water Table Present	t? Yes	s <u>X</u> No	Depth (inch	nes):	0				
Saturation Present?	Yes	s <u>X</u> No	Depth (inch	nes):	0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fr	inge)								
Describe Recorded	Data (stream dau	ae monitorina well	aerial photos i	nrevious ins	enections) if:	available:			
Describe Necorded	Data (Stream gad)	ge, monitoring well,	aeriai priotos, į	previous ins	spections), in	available.			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: WB-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
Tree Stratum (Plot size: 30 Feet) 1 2	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 1 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 Feet)	0	= Total Cov	er	Total % Cover of: Multiply by: OBL species 5 x 1 = 5 FACW species 40 x 2 = 80
1.				FAC species 0 x 3 = 0
2		_		FACU species 0 x 4 = 0
3. 4.				UPL species 0 x 5 = 0 Column Totals: 45 (A) 85 (B)
5. 6.				Prevalence Index = B/A = 1.89
7	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet) 1. Phragmites australis / Common reed	40	Yes	FACW	X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Lythrum salicaria / Purple loosestrife	5	No	OBL	X 3 - Prevalence Index ≤3.0¹
3. 4.		_	<u> </u>	4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5.	_	_		¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8. 9.				Definitions of Vegetation Strata
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	45	= Total Cov	 er	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet) 1				greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
2		_		size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
4.				height.
	0	_ = Total Cov	er	Hydrophytic
				Vegetation Present? YesX No
Remarks: (Explain alternative procedures here or in a separat	te report.)			
	' /			

SOIL Sampling Point: WB-1W

Depth	iption: (Describe to th Matrix	o dopui iice		Features		, appell	oo or maloator	~·,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-5	10YR 4/2	100	, ,				Clay	Soil samp	ole taken between two railroads
,									
								-	
						 .		-	
								-	
								-	
									
						 -			
Type: C=Cor	centration, D=Depletion	n. RM=Reduc	ced Matrix. MS=Mask	ed Sand Gr	ains.		²Loca	ation: PL=Po	ore Lining, M=Matrix.
lydric Soil Ir									ematic Hydric Soils³:
Histosol			Polyvalue Below) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			l9B)			edox (A16) (LRR K, L, R)
Black His	• •		Loamy Mucky M		LRR K, L)				at or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (ST	7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin	Dark Surfac	ce (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-l	Manganese	Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedr	mont Floodp	plain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesi	c Spodic (T/	A6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red I	Parent Mate	erial (F21)
Stripped	Matrix (S6)						Very	Shallow Da	ark Surface (TF12)
	face (S7) (LRR R, ML	RA 149B)						r (Exp l ain in	
_		•					_		,
Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed or	problem	atic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (inc							Hydric Soil P	resent?	Yes No X
	<u>'</u>								
Remarks:	Rock refusal at 5 inches								
'	tock relusar at 5 mones).							



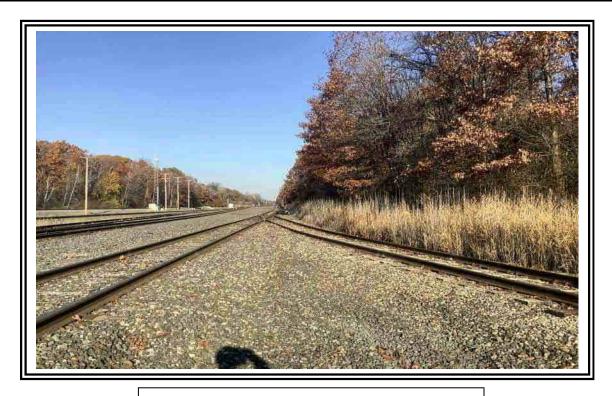
Wetland B - View facing southwest

SITE PHOTOGRAPHS

Project/Site:	Champlain Hu	dson Power Expres	ss City/	County: Ne	ew Scotland, Alb	any County.	Sampling Date:	11/08/2021
Applicant/Owner:	·	Kiewitt E	ngineering Group		St	ate: New York	Sampling Point:	WB-1U
Investigator(s):		MA, KC		ion, Township, Ra			of New Scotland	
Landform (hillslope, te		Flat		oncave, convex,		none		(%): 0-3
Subregion (LRR or ML				42.58622437				n: WGS 1984
Soil Map Unit Name:				42.50022457	Long	NWI classificati		1
Are climatic / hydrolog				V No.	(If no	_		
		• •	•			•	•	/ No
Are Vegetation X						cumstances" pres		(No
			naturally problem			ain any answers ir		
SUMMARY OF FI	NDINGS - Atta	ach site map si	nowing sampling	g point locati	ons, transec	cts, important	teatures, etc.	
Hydrophytic Vegetat	tion Present?	Yes	NoX	Is the Sam	pled Area			
Hydric Soil Present?	?	Yes	No X	within a W	etland?	Yes	NoX	
Wetland Hydrology	Present?	Yes	No X	If yes, option		· · · · · · · · · · · · · · · · · · ·		-
Remarks: (Explain a				on budrology on	d soil are disturb	and due to provimi	ty to railroad. No yo	getetion was
			Iroad tracks. Vegetati obtainable due to grav		ia soli are disturt	bed due to proximi	ty to railroad. No ve	getation was
procen	within the apiana	point. Con was and	blamable due to grav	or morn ramoda.				
HYDROLOGY								
	- I II 4							
Wetland Hydrology								
Primary Indicators (quired; check all the	,	(2.6)			ators (minimum of t	vo requirea)
Surface Water	` '		Water-Stained Leav	` '			il Cracks (B6)	
High Water Tab	` ,		. Aquatic Fauna (B13	,			atterns (B10)	
Saturation (A3)			Marl Deposits (B15	•			Lines (B16)	
Water Marks (E	31)		Hydrogen Sulfide C	` '		Dry-Seasor	n Water Table (C2)	
Sediment Depo	osits (B2)		Oxidized Rhizosphe	eres on Living Ro	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of Reduc	ed Iron (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Cr	ust (B4)		Recent Iron Reduct	ion in Tilled Soils	(C6)	Stunted or	Stressed Plants (D1)
Iron Deposits (I	B5)		Thin Muck Surface	(C7)		Geomorphi	c Position (D2)	
Inundation Visi	ble on Aerial Image	ery (B7)	Other (Explain in Re	emarks)		Shallow Aq	uitard (D3)	
Sparsely Veget	tated Concave Surf	face (B8)	•			Microtopog	raphic Relief (D4)	
						FAC-Neutra	al Test (D5)	
Field Observations								
Surface Water Prese	ent? Yes	NoX	_ ' ' -					
Water Table Present	t? Yes	NoX	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hyd	rology Present?	Yes	No <u>X</u>
(includes capillary fr	inge)							
Describe Recorded	Data (stream gaug	je, monitoring well,	aerial photos, previou	is inspections), if	available:			
Remarks:								
rtemants.								

			Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
Absolute	Dominant	Indicator	That 7 is 0 52, 17 (0 11) (17)
% Cover	Species?	Status	Total Number of Dominant
			Species Across All Strata: 0 (B)
			December 1 December 14 October 14
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 0.0 (A/B)
			Prevalence Index worksheet:
	= Total Cov	er	
	_		
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 0 (A) 0 (B)
			Prevalence Index = B/A =0.0
U	= lotal Cov	er	Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			X 3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations¹ (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
			¹Indicators 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	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and
	_		greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
		· 	Woody vines - All woody vines greater than 3.28 ft in
			height.
	= Total Cov		
	_ = 10tal Cov	31	Hydrophytic
			Vegetation
			Present? Yes No X
	ad tracks on	sithar aida	
a with railro	ad tracks on	eitner side	
	ad tracks on	either side	
	% Cover	% Cover Species? 0 = Total Cove 1 Total Cove 0 = Total Cove 1 Total Cove	% Cover Species? Status 0 = Total Cover 0 = Total Cover 0 = Total Cover

SOIL Sampling Point: WB-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Matrix Type¹ Loc² (inches) Color (moist) Color (moist) Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) 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) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): No X Remarks: Soils sample unobtainable. Data point was taken on an access road with railroad tracks on either side



Upland B- View facing northwest

SITE PHOTOGRAPHS

Project/Site:	Champlain Hu	dson Power Express	Citv/Cou	untv: Bethlehem	and New Scot	tland, Albany Cou	Sampling Date:	11/08/2021
Applicant/Owner:			gineering Group	, . <u></u>			Sampling Point:	
Investigator(s):		MA KC		Township, Rang			of Bethlehem	
Landform (hillslope, ter	race, etc):	Swale	Local relief (cond	cave, convex, no	one):	concave	Slope ((%): 0-3
Subregion (LRR or ML			Lat: 42.	.58293744	Long:	-73.8752047	′6 Datum	: WGS 1984
Soil Map Unit Name:			Udorthents			NWI classificatio	n:	
Are climatic / hydrologi	c conditions on the	site typical for this t	ime of year? Yes	X No_	(If no, o	explain in Remarks	s.)	
			significantly disturbe		re "Normal Circ	cumstances" preser	nt? Yes X	No
Are Vegetation	, Soil,	, or Hydrology	naturally problemation	c? (lf	needed, expla	in any answers in l	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ch site map sho	owing sampling p	oint location	ns, transect	ts, important f	eatures, etc.	
Hydrophytic Vegetat	ion Present?	Yes X	No	Is the Sampl	led Area			
Hydric Soil Present?		Yes	No X	within a Wet	:land?	Yes X	No	_
Wetland Hydrology F	Present?	Yes X	No	If yes, optiona	al Wetland Site	: ID:		
								
		res here or in a sepai a swale between two	rate report.) o railroad tracks. Hydrol	logy vegetation	and soil all dis	sturbed to location	within the railway U	Inable to
		rock fill within railway	•	ogy, vegetation,	, allu soli ali alo	luibed to jocation .	Willing the ranway.	Illable to
	·		<u> </u>				l	
HYDROLOGY	Identified a	ıs Wetland El	DR A on wetla	nd mappin	ng and in	report text.		
Wetland Hydrology	· Indicators:							
1		quired; check all that	apply)			Secondary Indica	itors (minimum of tw	vo required)
X Surface Water ('	Water-Stained Leaves	(B9)		Surface Soil	,	
High Water Tab	• •		Aquatic Fauna (B13)	,		Drainage Pa	` ,	
Saturation (A3)			Marl Deposits (B15)			Moss Trim Li		
Water Marks (B	31)	_	Hydrogen Sulfide Odor	r (C1)			Water Table (C2)	
Sediment Depo	sits (B2)	<u>-</u>	Oxidized Rhizospheres	on Living Roots	s (C3)	Crayfish Bur		
Drift Deposits (I	33)	_	Presence of Reduced I	ıron (C4)		Saturation V	isible on Aerial Imag	gery (C9)
X Algal Mat or Cru	ust (B4)	<u> </u>	Recent Iron Reduction	in Tilled Soils (C	26)	Stunted or S	Stressed Plants (D1))
Iron Deposits (E	35)		Thin Muck Surface (C7	')		X Geomorphic	Position (D2)	
Inundation Visit	ole on Aerial Image	ery (B7)	Other (Explain in Rema	arks)		Shallow Aqu	iitard (D3)	
Sparsely Veget	ated Concave Surf	ace (B8)				Microtopogra	aphic Relief (D4)	
						X FAC-Neutral	Test (D5)	
Field Observations	-							
Field Observations Surface Water Prese		Y No	Danth (inches):	0.5				
Water Table Present		X No X		0.5				
Saturation Present?		NoX			Wetland Hydr	rology Present?	Yes X	No
(includes capillary fri			Deptii (inches ₎ .		Welland mya.	Ology i resent.	163	
(IIIoludos dapinary								
Describe Recorded I	Data (stream gaug	e, monitoring well, a	erial photos, previous in	nspections), if av	/ailable:			
Demonto								
Remarks: Unable	to check for water	table and saturation	due to gravel surface.					
			ude 15 g. a					

VEGETATION - Use scientific names of plants.				Sampling Point: WA-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
Tree Stratum (Plot size: 30 Feet) 1 2	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata:1 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15 Feet) 1 2 3				FACW species 60 x 2 = 120 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
4. 5. 6.				Column Totals: 60 (A) 120 (B) Prevalence Index = B/A = 2.0
7	0	= Total Cov	 er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
1. Phragmites australis / Common reed 2. 3. 4.	_			X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5. 6. 7.			·	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9. 10.				Definitions of Vegetation Strata
1112	60	= Total Cov	 er	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet) 1 2.		_		greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3				Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: WA-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Matrix Type¹ Loc² (inches) Color (moist) Color (moist) Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): Yes No Remarks: Unable to obtain sample due to rock refusal at 0in



Wetland A- View facing north

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	son Power Expres	ss City/Co	ounty: Bethlehem	and New Sco	tland, Albany Cou	Sampling Date:	11/08/2021
		Kiewitt E	Ingineering Group		Sta	ate: New York	Sampling Point:	WA-1U
Investigator(s):		MA, KC	Section	n, Township, Rang	ge:	Town	of Bethlehem	
Landform (hillslope, ter		Flat		ncave, convex, no	ine):	none	Slope	e (%): 0-3
Subregion (LRR or MLI	RA):	LRR R	Lat: 42	2.58293661	Long:	-73.8751972	27 Datu	m: WGS 1984
Soil Map Unit Name:			Udorthents			NWI classification	on:	
Are climatic / hydrologic	c conditions on the	site typical for this	s time of year? Yes _	No	(If no,	explain in Remark	s.)	
Are Vegetation X	, SoilX,	or Hydrology	X significantly disturb	ped? Are	e "Normal Circ	cumstances" prese	nt? Yes	X No
			naturally problemat			ain any answers in		
SUMMARY OF FI	NDINGS - Atta	ch site map sl	howing sampling	point location	ns, transec	ts, important t	features, etc.	
Hydrophytic Vegetati	ion Present?	Yes	No X	Is the Sample	ed Area	•	·	
Hydric Soil Present?		Yes		within a Wetl		Yes	No X	
Wetland Hydrology F		Yes	NoX		al Wetland Site			_
Wettaria Hydrology i								
1		and A. Point locate	parate report.) ed on railroad driveway	between the track	κs. Soil sample	e could not be obta	ined due to grave	I. No vegetation
HYDROLOGY								
	Indicators							
Wetland Hydrology		بطفالم بامتمانية	-4l. \			Cdom.ladica		f
Primary Indicators (n		uired; check all tha					tors (minimum of	two required)
Surface Water (High Water Tab	• •	_	Water-Stained Leaves	, ,			Cracks (B6)	
Saturation (A3)		_	Aquatic Fauna (B13) Marl Deposits (B15)			Drainage Pa Moss Trim L		
Water Marks (B			Hydrogen Sulfide Odd	or (C1)			Water Table (C2)	
Sediment Depo	•	-	Oxidized Rhizosphere	• ,	د (رع)	Crayfish Bur	, ,	
Drift Deposits (E	, ,	-	Presence of Reduced	•	s (US)		iows (Co) isible on Aerial Im	aggery (CQ)
Algal Mat or Cru	,		Recent Iron Reduction	` '	`6\		Stressed Plants (D	
Iron Deposits (E	, ,		Thin Muck Surface (C	•	,0)		Position (D2)	1)
I — ' '	ole on Aerial Imagei	 nv (B7)	Other (Explain in Rem	•		Shallow Aqu	, ,	
	ated Concave Surfa		_ Other (Explain in Non	na no j			aphic Relief (D4)	
	2104 00110410 04110	.00 (20)				FAC-Neutral		
Field Observations	:							
Surface Water Prese	ent? Yes		_ ' '					
Water Table Present	? Yes	NoX	Depth (inches):					
Saturation Present?	Yes	NoX	Depth (inches):		Wetland Hydr	rology Present?	Yes	No <u>X</u>
(includes capillary fri	nge)							
Describe Recorded I	Data (stream gauge	, monitoring well,	aerial photos, previous	inspections), if av	allable:			
Remarks:								
Tromano.								

2.	er	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
Tree Stratum (Plot size: 30 Feet % Cover Species? 1. 2. 3. 4. 5. 6. 7. 6. 7. 0 = Total Cov. Sapling/Shrub Stratum (Plot size: 15 Feet) 1. 2. 3. 4. 5. 6. 7. 7.	er	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B) Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Tree Stratum (Plot size: 30 Feet % Cover Species? 1. 2. 3. 4. 5. 6. 7. 0 = Total Cov Sapling/Shrub Stratum (Plot size: 15 Feet) 1. 2. 3. 4. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	er	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B) Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Tree Stratum (Plot size: 30 Feet) % Cover Species? 1.	er	Total Number of Dominant Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B) Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1.	er	Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 0 (B Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 <t< td=""></t<>
1.	er	Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 0 (B Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 <t< td=""></t<>
2	er	Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0
3.	er	That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
4	er	That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5	er	That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
O	er	Prevalence Index worksheet: Total % Cover of:
6	er	Total % Cover of:
7	er	Total % Cover of:
Sapling/Shrub Stratum	er	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 0 (B Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation
Sapling/Shrub Stratum	er	FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1.	er	FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Description Description	er	FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
3	er	UPL species 0 x 5 = 0 Column Totals: 0 (A) 0 (E Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
O	er	Column Totals: 0 (A) 0 (B Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
O	er	Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5	er	Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
O	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 Feet) 1.		1 - Rapid Test for Hydrophytic Vegetation
1		1 -
2		2 - Dominance Test is >50%
3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.		
3		X 3 - Prevalence Index ≤3.0¹
1		4 - Morphological Adaptations¹ (Provide supporting
5		Problematic Hydrophytic Vegetation¹ (Explain)
6		Troublindate Tryanophysic Vegetation (Explain)
7		
3		¹Indicators of hydric soil and wetland hydrology must
9.		be present, unless disturbed or problematic.
10		Definitions of Vegetation Strata
10		
11		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
10	 	breast height (DBH), regardless of height
0 = Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
	ei	greater than or equal to 3.28 ft (1 m) tall.
Noody Vine Stratum (Plot size: 30 Feet)		Herb - All herbaceous (non-woody) plants, regardless of
1	_	size, and woody plants less than 3.28 ft tall.
2.		1
3.		Woody vines - All woody vines greater than 3.28 ft in
4.		height.
0 = Total Cov	er.	•
	CI	Hydrophytic
		Vegetation
		Present? Yes NoX

SOIL Sampling Point: WA-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Type¹ Loc² (inches) Color (moist) Color (moist) Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: **Hydric Soil Present?** Depth (inches): Yes No X Remarks: Soils sample unobtainable. Data point was taken on an access road with railroad tracks on either side.



Upland A - View facing south

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	(City/County: Feura B	Bush/Albany	Sampling Date: 7/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: P5-C Wet
Investigator(s): C. Einstein & J. Greaves		Section, Tov	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): linear depri	ression Local rel	elief (concave, conve	x, none): concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42 34 52"N	•	-73 52 27"W	' Datum: WGS84
Soil Map Unit Name: Uh - Udorthents, clayey			NWI classification:	
Are climatic / hydrologic conditions on the site	·	Ves v		explain in Remarks.)
		Yes X	- <u></u> ` '	,
Are Vegetation, Soil, or Hydrold			nal Circumstances" prese 	
Are Vegetation, Soil, or Hydrold			d, explain any answers in	,
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar	rea	
	Yes X No	within a Wetland?	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures here Common reed marsh occurring within a linear		a hillside.		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		x Surface Soil Cracks	(B6)
X Surface Water (A1)	x Water-Stained Leaves (B9	9)	Drainage Patterns (I	· ·
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	•
x Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	
Water Marks (B1)	Hydrogen Sulfide Odor (C	· ·	Crayfish Burrows (C	•
x Sediment Deposits (B2)	Oxidized Rhizospheres on	• , ,		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in T Thin Muck Surface (C7)	Tilled Solis (Co)	x Geomorphic Position Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		s)	Microtopographic Re	
Sparsely Vegetated Concave Surface (B8		3)	X FAC-Neutral Test (D	, ,
Field Observations:			<u> </u>	
Surface Water Present? Yes x	No Depth (inches):	0.5		
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes x	No Depth (inches):	0 Wetlan	d Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previ	ious inspections), if	available:	
Remarks:				

VEGETATION – Use scientific names of plants.

	A la c - 1 - 4	Daniel III and	lucallo - 4	<u> </u>
ree Stratum (Plot size:)	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
		<u> </u>		Species Across All Strata: 1 (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 0 x 1 = 0
				FACW species 100 x 2 = 200
				FAC species0 x 3 =0
				FACU species 0 x 4 = 0
				UPL species0 x 5 =0
				Column Totals: 100 (A) 200 (E
				Prevalence Index = B/A =2.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
	100	165	<u> </u>	
		<u> </u>		4 - Morphological Adaptations ¹ (Provide supporti data in Remarks or on a separate sheet)
·				data in Nemarks of on a separate sheet)
·		<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
· <u></u>				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 heigh
)				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30')		•		
· · · · · · · · · · · · · · · · · · ·				Woody vines – All woody vines greater than 3.28 ft height.
		-		neight.
·				Hydrophytic
		<u> </u>		Vegetation
				Present?

SOIL Sampling Point P5-C Wet

Depth	ription: (Describe to Matrix	Jule de		ument tr x Featur		ator of C	onfirm the absence o	i muicaluis.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
0-6	10YR 2/1	100					Muck		
6-8	5YR 5/2	80	5YR 4/3	20	С	m	Loamy/Clayey	Faint redox	concentrations
8-20	7.5YR 4/2	<u></u>	7.5YR 6/6	5	С		Loamy/Clayey	Prominent red	ox concentrations
			7.5YR 3/1	20	С			Faint redox	concentrations
¹ Type: C=Co	ncentration, D=Deple	etion, RN	 ∕/=Reduced Matrix, N	 ∕/S=Masl	ked San	d Grains.	² Location: P	L=Pore Lining, M=	=Matrix.
Hydric Soil I	ndicators:						Indicators fo	or Problematic H	ydric Soils³:
Histosol	(A1)		Dark Surface (,			2 cm Mu	ıck (A10) (LRR K ,	L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (LRR R,	Coast Pi	rairie Redox (A16)	(LRR K, L, R)
Black His	stic (A3)		MLRA 149B	3)			5 cm Mu	icky Peat or Peat	(S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA	149B) Polyvalu	e Below Surface ((S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	311) (LR I	R K, L)	Thin Dar	rk Surface (S9) (L l	RR K, L)
	Below Dark Surface	(A11)	Loamy Mucky	Mineral ((F1) (LR	RK, L)	Iron-Mar	nganese Masses ((F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmor	nt Floodplain Soils	(F19) (MLRA 149 E
Mesic Sp	odic (A17)		X Depleted Matri	ix (F3)			Red Par	ent Material (F21)	(outside MLRA 14
(MLR	A 144A, 145, 149B)		Redox Dark St					allow Dark Surface	
	ucky Mineral (S1)		Depleted Dark		. ,		Other (E	xplain in Remarks	;)
	leyed Matrix (S4)		Redox Depres	•	3)		2		
	edox (S5)		Marl (F10) (LR					ors of hydrophytic	-
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (ML I	RA 145)	A 145) wetland hydrology must be pres unless disturbed or problematic.		
Restrictive L	ayer (if observed):							aletaile a e. pies	
Type: _									
Depth (in	ches):						Hydric Soil Preser	nt? Yes _	X No
Remarks:									



Wetland P5-C - View facing southeast



Wetland P5-C - Soils

SITE PHOTOGRAPHS

Champlain Hudson Power Express

Segment 8 – Package 5A

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	(City/County: Feura E	3ush/Albany	Sampling Date: 7/27/22		
Applicant/Owner: TDI			State: NY	Sampling Point: P5-C Upl		
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	ex. none): convex	Slope %: 20		
Subregion (LRR or MLRA): LRR R	Lat: 42 34 52"N	-	-73 52 27"W	Datum: WGS84		
Soil Map Unit Name: Uh - Udorthents, clayer			NWI classification:			
Are climatic / hydrologic conditions on the site	*	Vac v		explain in Remarks.)		
		Yes x		. ,		
Are Vegetation, Soil, or Hydro			mal Circumstances" prese			
Are Vegetation, Soil, or Hydro			d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:			
Remarks: (Explain alternative procedures he Railroad ballast/gravel road.	∍re or in a separate report.)					
HYDROLOGY						
			Sacandary Indicators (s	minimum of two required)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required)	rod: check all that annly)		Surface Soil Crack	minimum of two required)		
Surface Water (A1)	Water-Stained Leaves (B		Drainage Patterns			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1)	Crayfish Burrows (0			
Sediment Deposits (B2)	Oxidized Rhizospheres or	·		on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	n (C4)	Stunted or Stresse	d Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position	on (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (E	·		
Inundation Visible on Aerial Imagery (B7	· — · · · ·	(s)	Microtopographic R	` '		
Sparsely Vegetated Concave Surface (B	i8)		X FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):			Y No V		
Saturation Present? Yes	No x Depth (inches):	wetian	nd Hydrology Present?	Yes No _X_		
(includes capillary fringe) Describe Recorded Data (stream gauge, more	enitoring well carial photos, prev	vieus inspections) if	avoilable:			
Describe Recorded Data (Stream gauge, mod	filloffig well, aerial priolos, prev	vious irispections _j , ir	avaliable.			
Remarks:						

VEGETATION – Use scientific names of plants. Sampling Point:

VEGETATION – Use scientific names of pla	ınts.			Sampling Point: P5-C Upl
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: 2 (A)
3.				Total Number of Dominant Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6	-			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 species0 x 1 =0
1				FACW species 5 x 2 = 10
2				FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 10 (A) 25 (B)
C				Prevalence Index = B/A = 2.50
_				Hydrophytic Vegetation Indicators:
7		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		- Total Gover		X 2 - Dominance Test is >50%
	_	V	FACIAL	
1. Phragmites australis	5	Yes Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Equisetum arvense3.	5	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting 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:
				Deminitions 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.
				and greater than or equal to 3.26 it (1 iii) tail.
12	10	=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: 30')				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 sepa	rate sheet.)			

SOIL Sampling Point P5-C Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		ument th x Featur		itor or co	onfirm the absence o	f indicato	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	(S
(1101100)					1700		Toxtaro		rtoman	
1 _{Typo: C=Co}	ncentration, D=Depl	otion PM	A-Poducod Matrix N	 19-Macl	kod Sand		² l ocation: F	I - Poro I	ining, M=Mat	riv
		ellon, ixiv	i-Reduced Matrix, N	/IO-IVIASI	Keu Sand	Giailis.			matic Hydric	
Hydric Soil I			Davida Osserfa a a /	07\					-	
Histosol	` '		Dark Surface ((LRR K, L, N	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,			ox (A16) (LR	•
Black His			MLRA 149B	,				-		(LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf		-		49B) Polyvalu	ie Below S	Surface (S8)	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	311) (LR F	R K, L)	Thin Da	rk Surface	e (S9) (LRR K	(, L)
Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral ((F1) (LR I	R K, L)	Iron-Mai	nganese N	Masses (F12)	(LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmoi	nt Floodpla	ain Soils (F19	9) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red Par	ent Mater	ial (F21) (out	side MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Sh	allow Dark	k Surface (F2	2)
	ucky Mineral (S1)		Depleted Dark		-			Explain in f		,
	leyed Matrix (S4)		Redox Depress				 `	•	,	
	edox (S5)		Marl (F10) (LR		-,		³ Indicate	ors of hydr	ophytic vege	tation and
	Matrix (S6)		Red Parent Ma		21) (MI F	2Δ 145)		-	gy must be p	
Stripped	Watrix (50)		Red raientime	ateriai (i	21) (IVILI	VA 140)		-	d or problema	
Postriotivo I	.ayer (if observed):						unes	s distuibet	a or problema	auc.
Type:	.ayer (ii observed).									
Depth (in	ches):						Hydric Soil Prese	nt?	Yes	No <u>X</u>
Remarks:										
Soils consist	of railroad ballast.									



Upland P5-C - View facing southeast



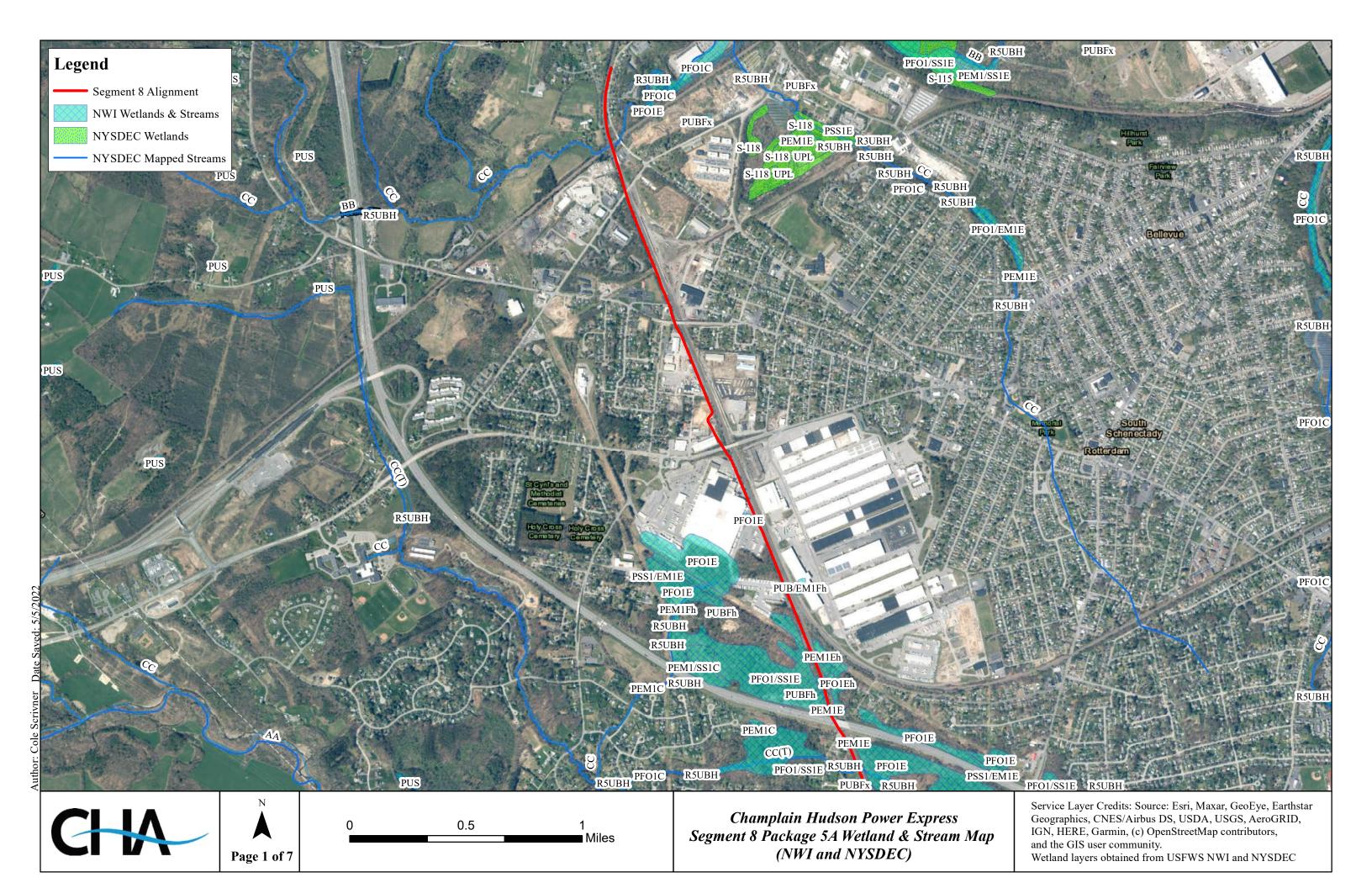
Upland P5-C - Soils

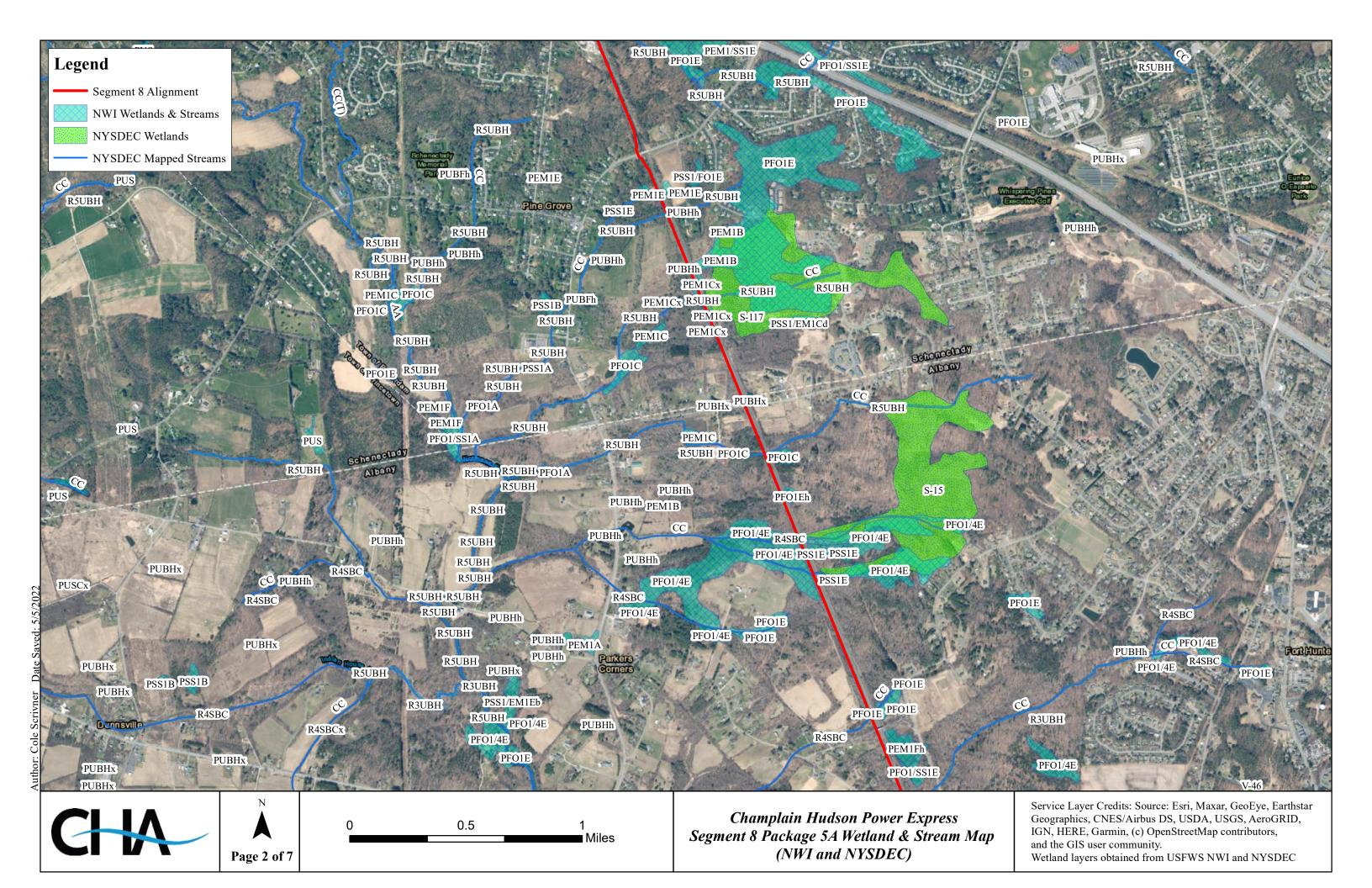
Segment 8 – Package 5A

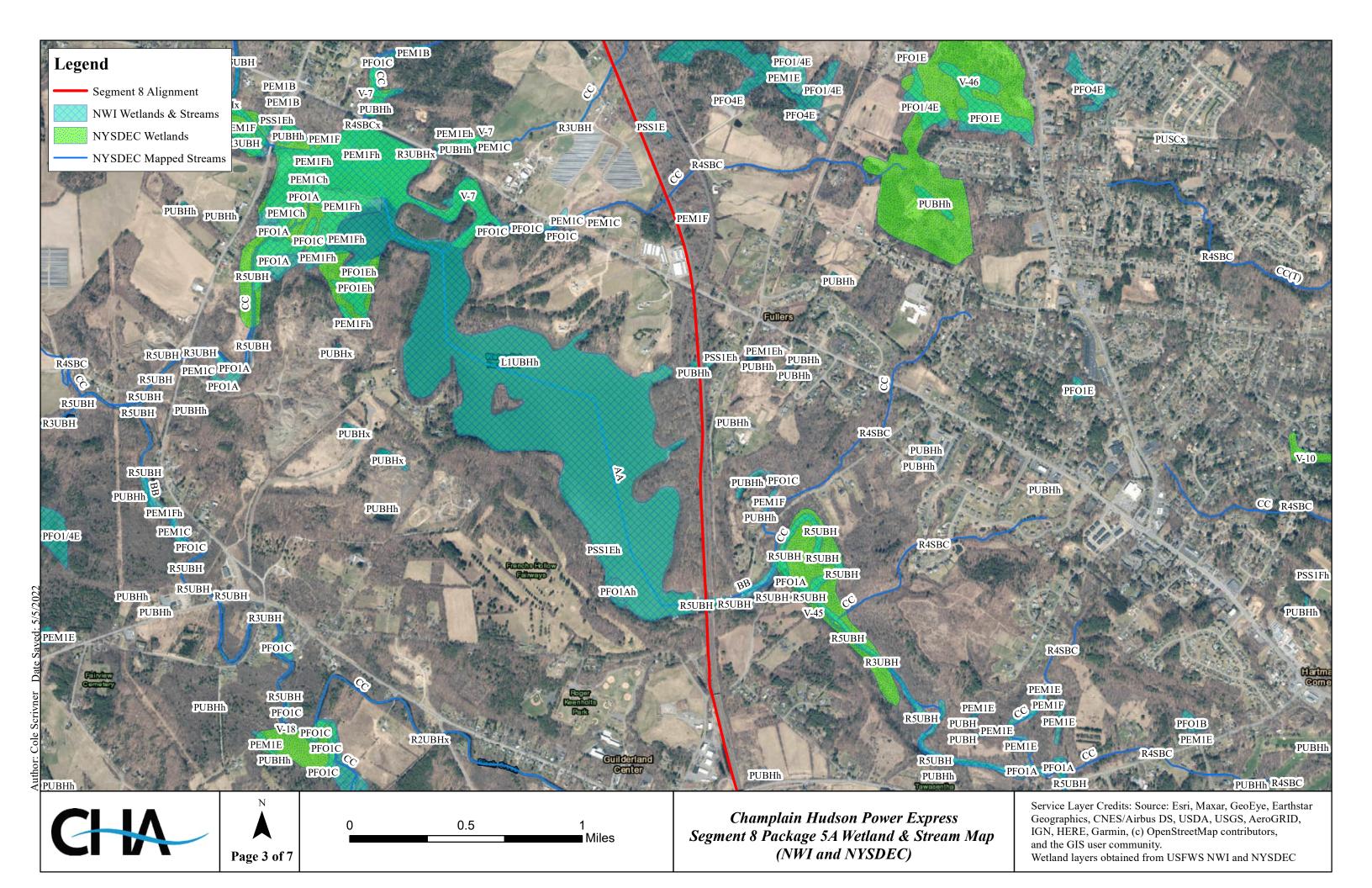
SITE PHOTOGRAPHS

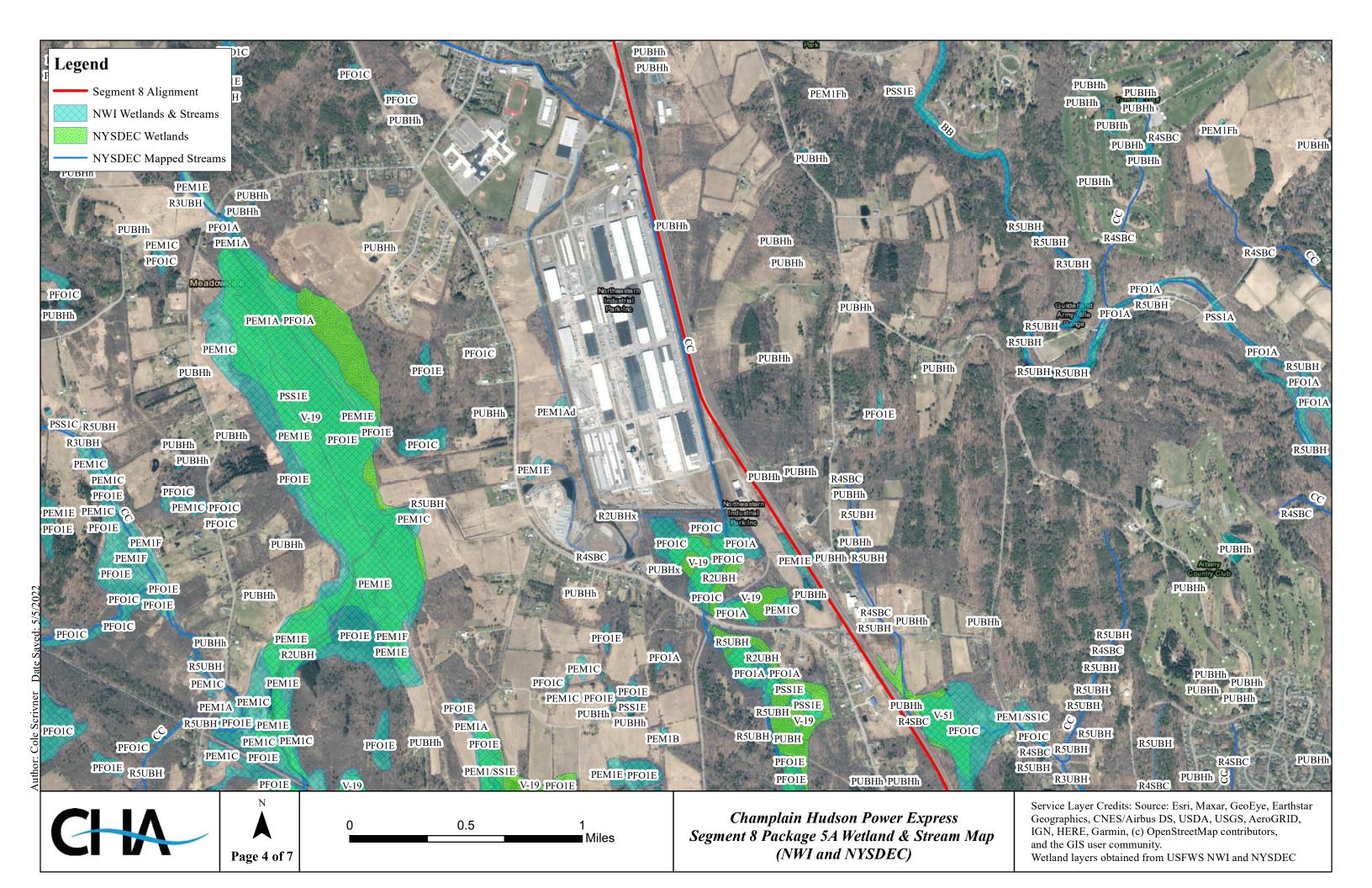
Champlain Hudson Power Express

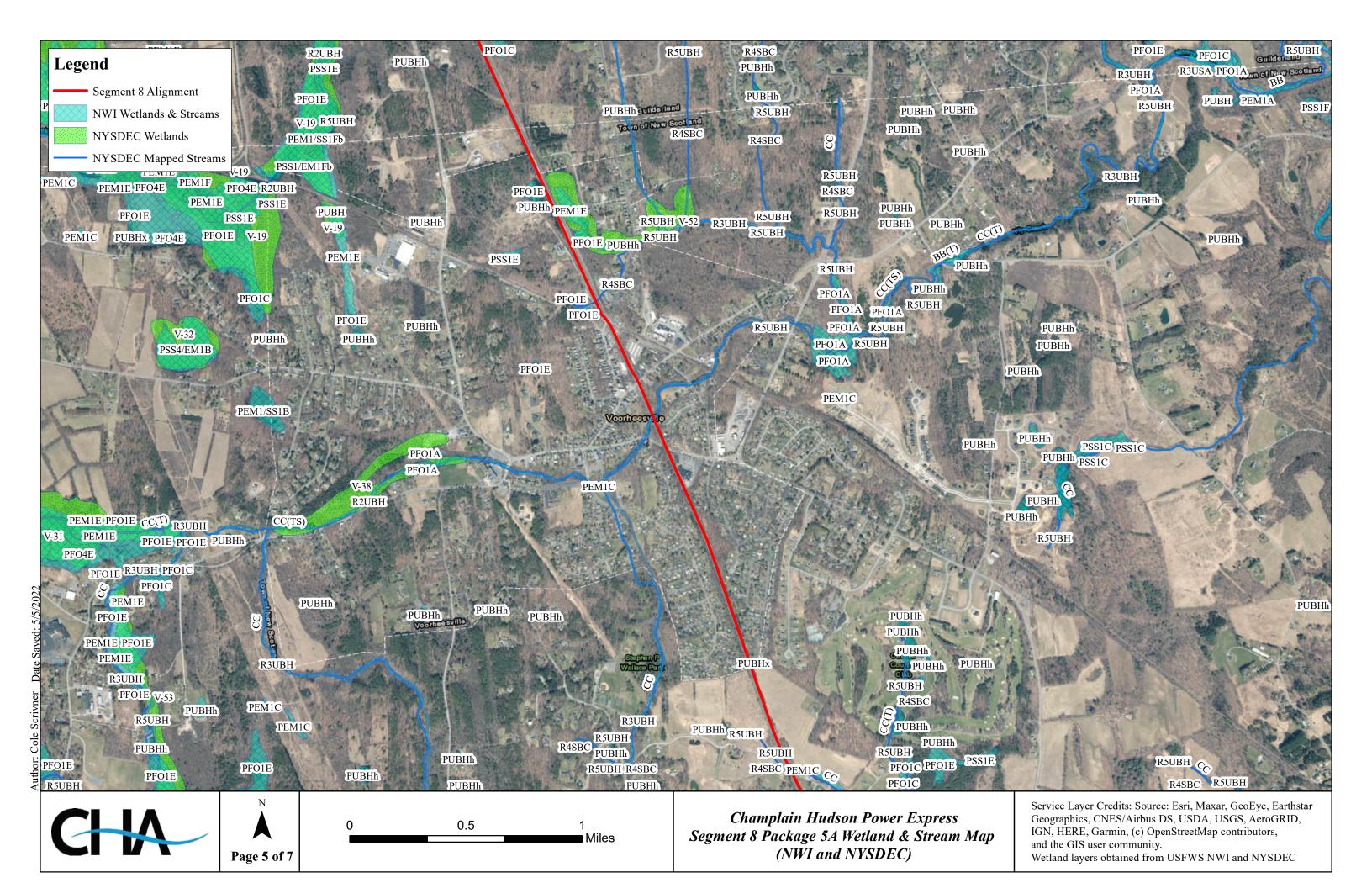
ATTACHMENT 2 NWI & NYSDEC WETLAND & STREAM MAPS

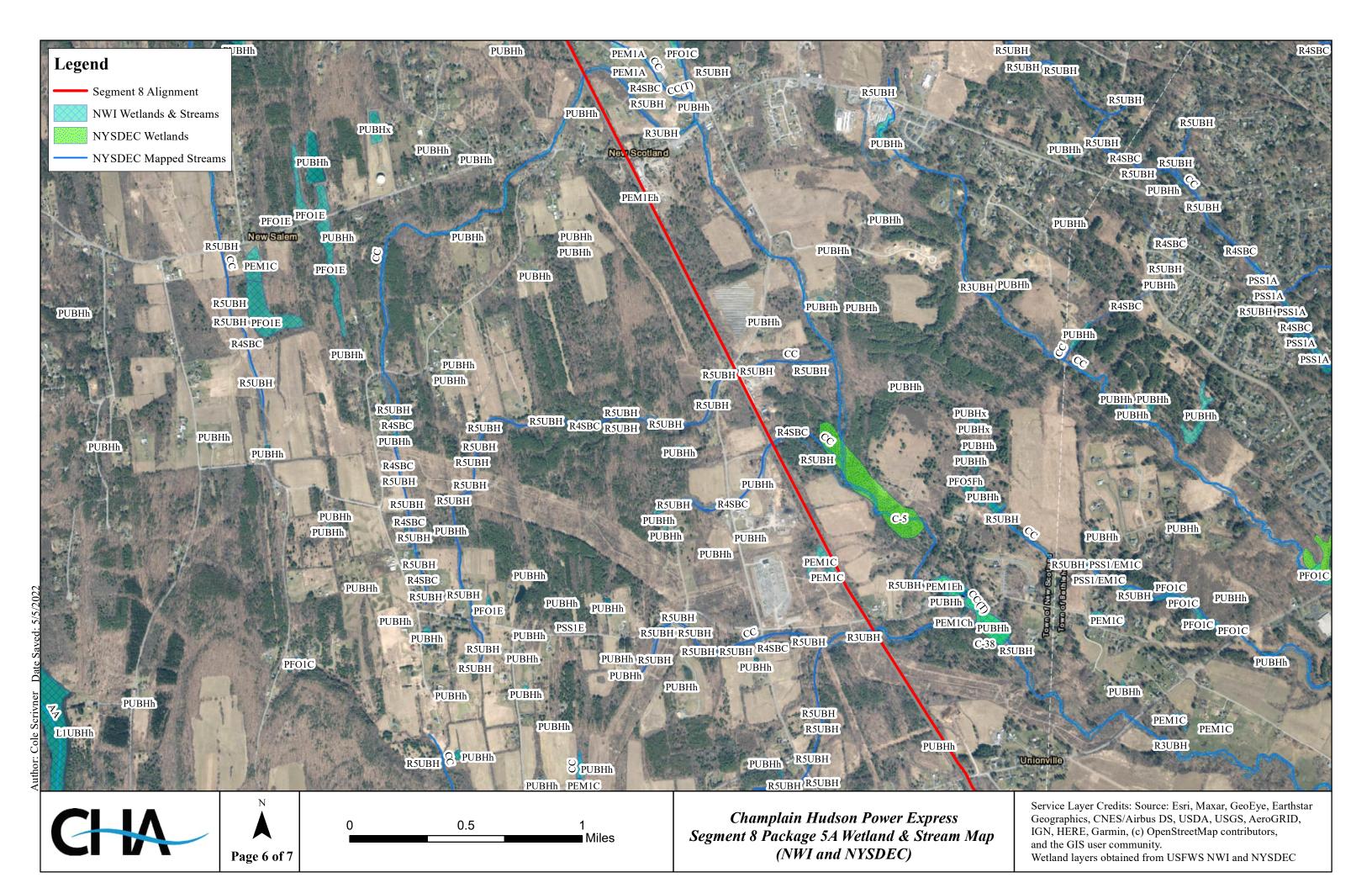


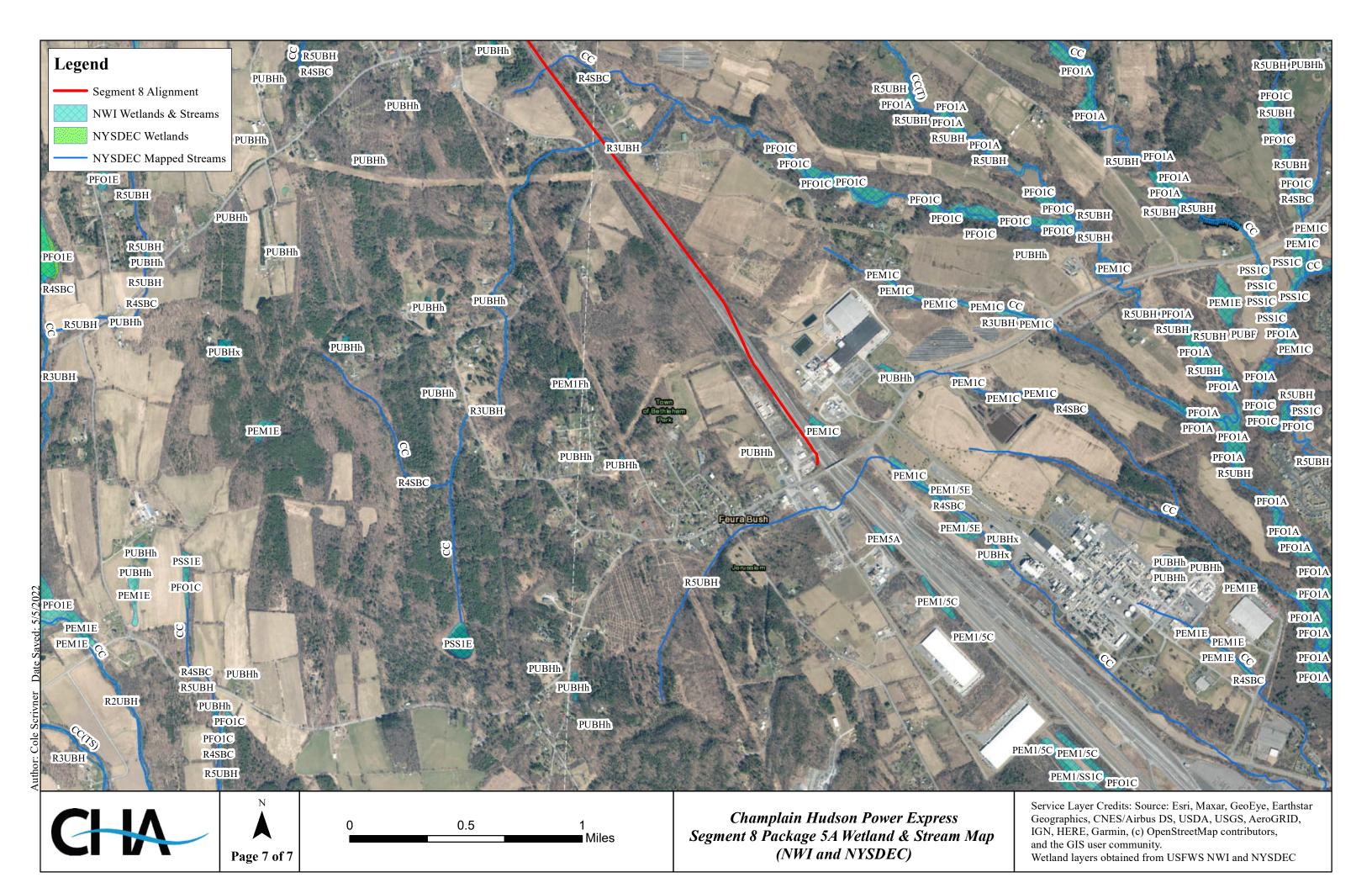




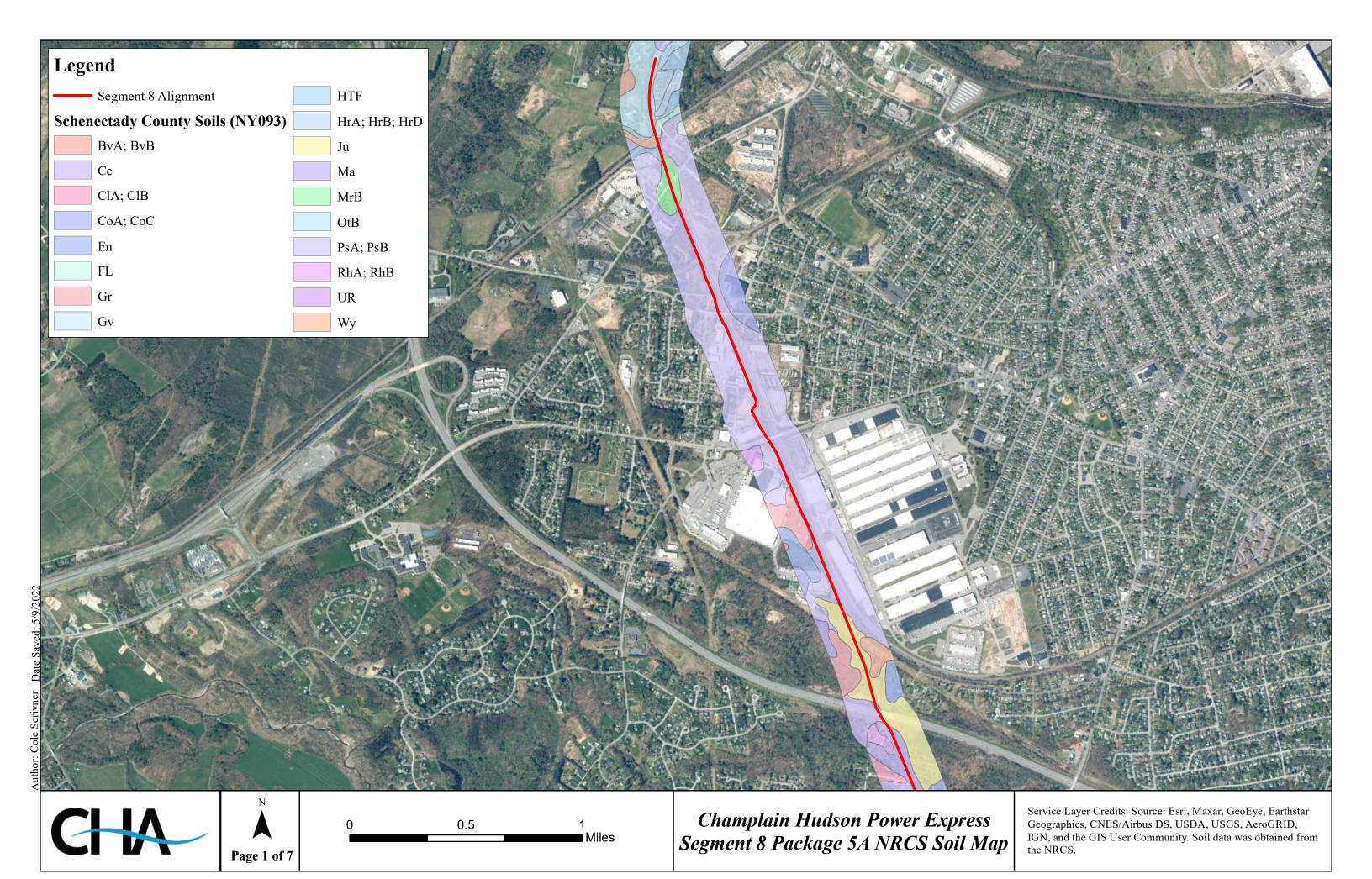


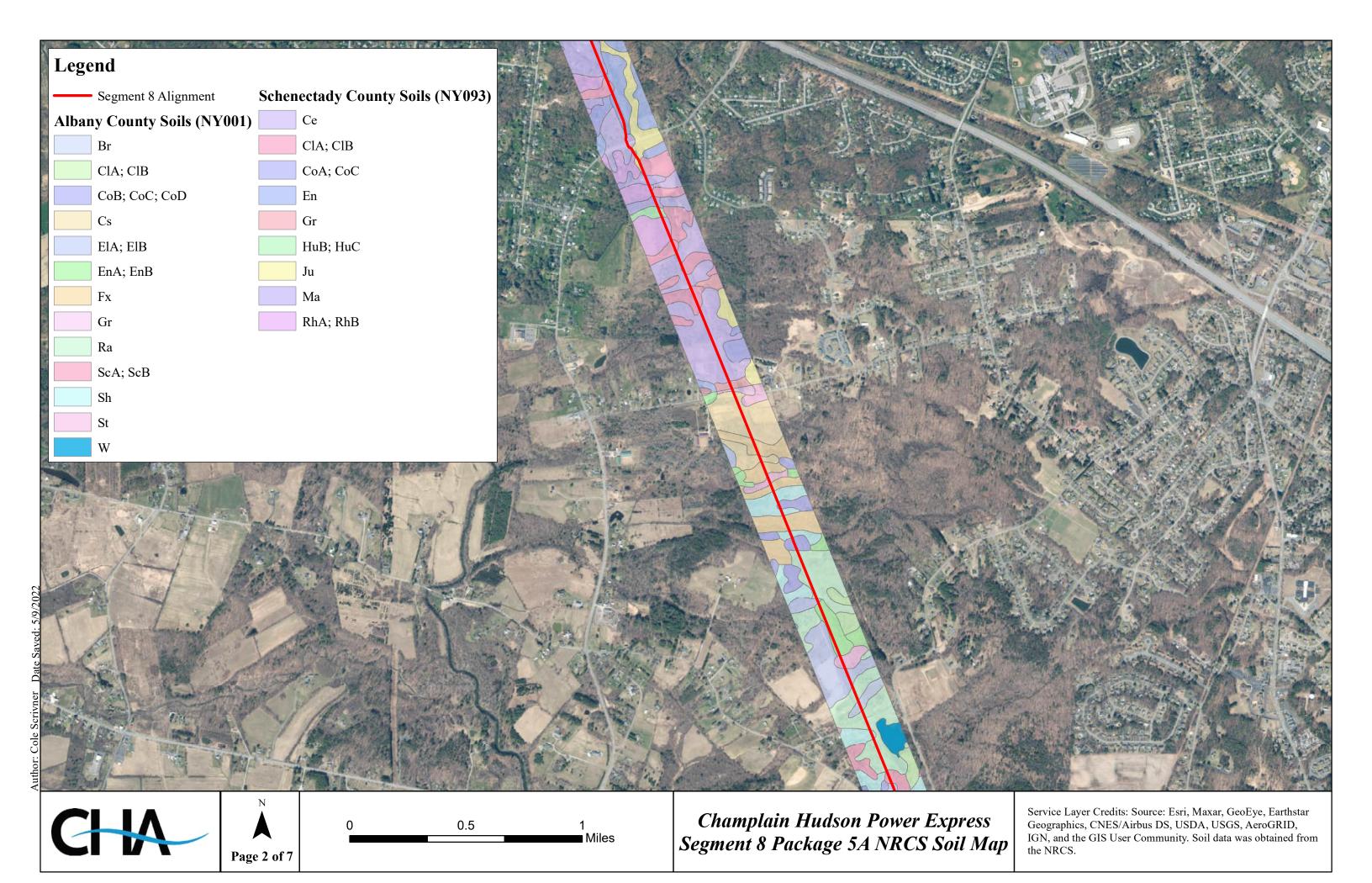


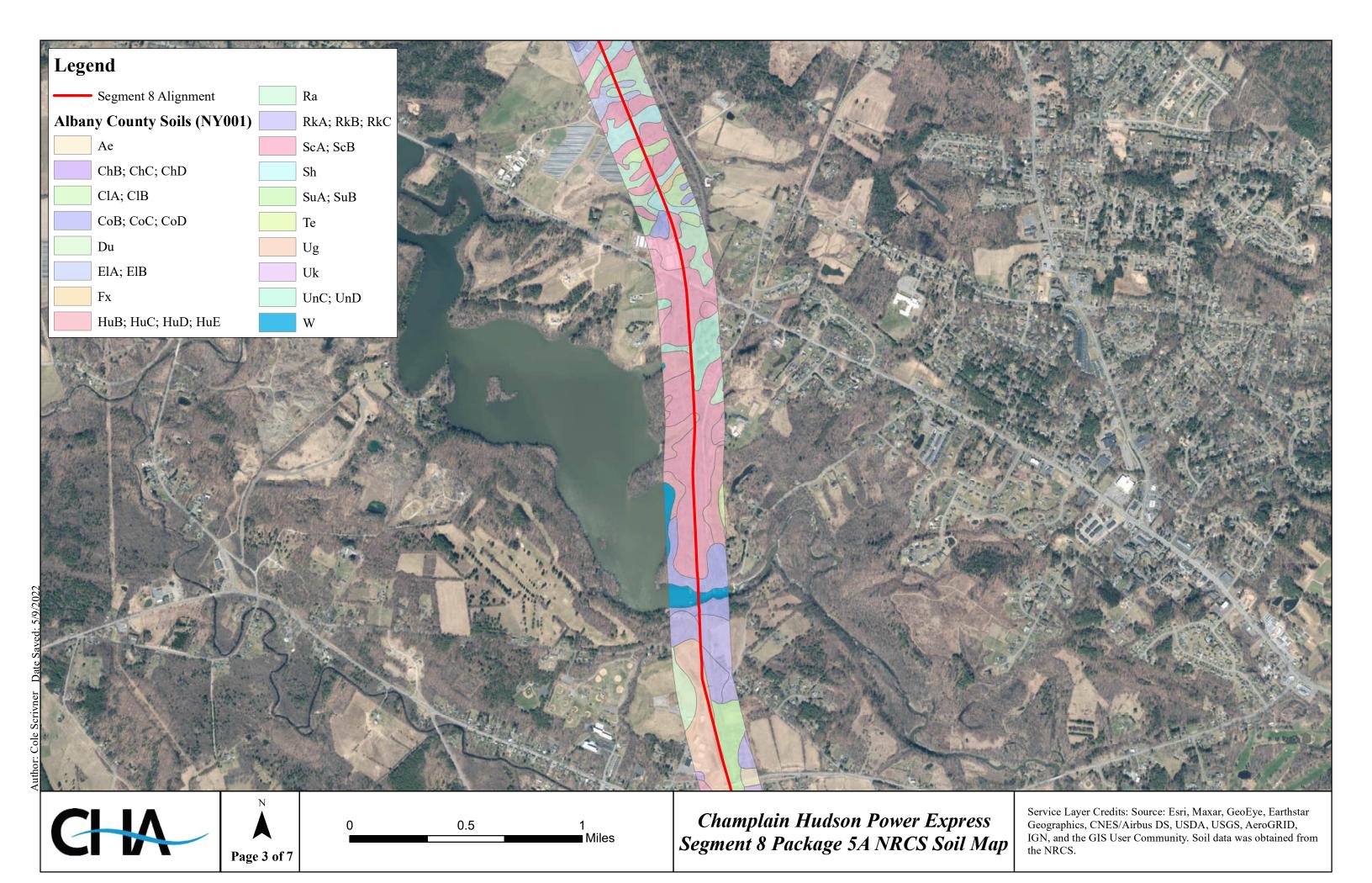


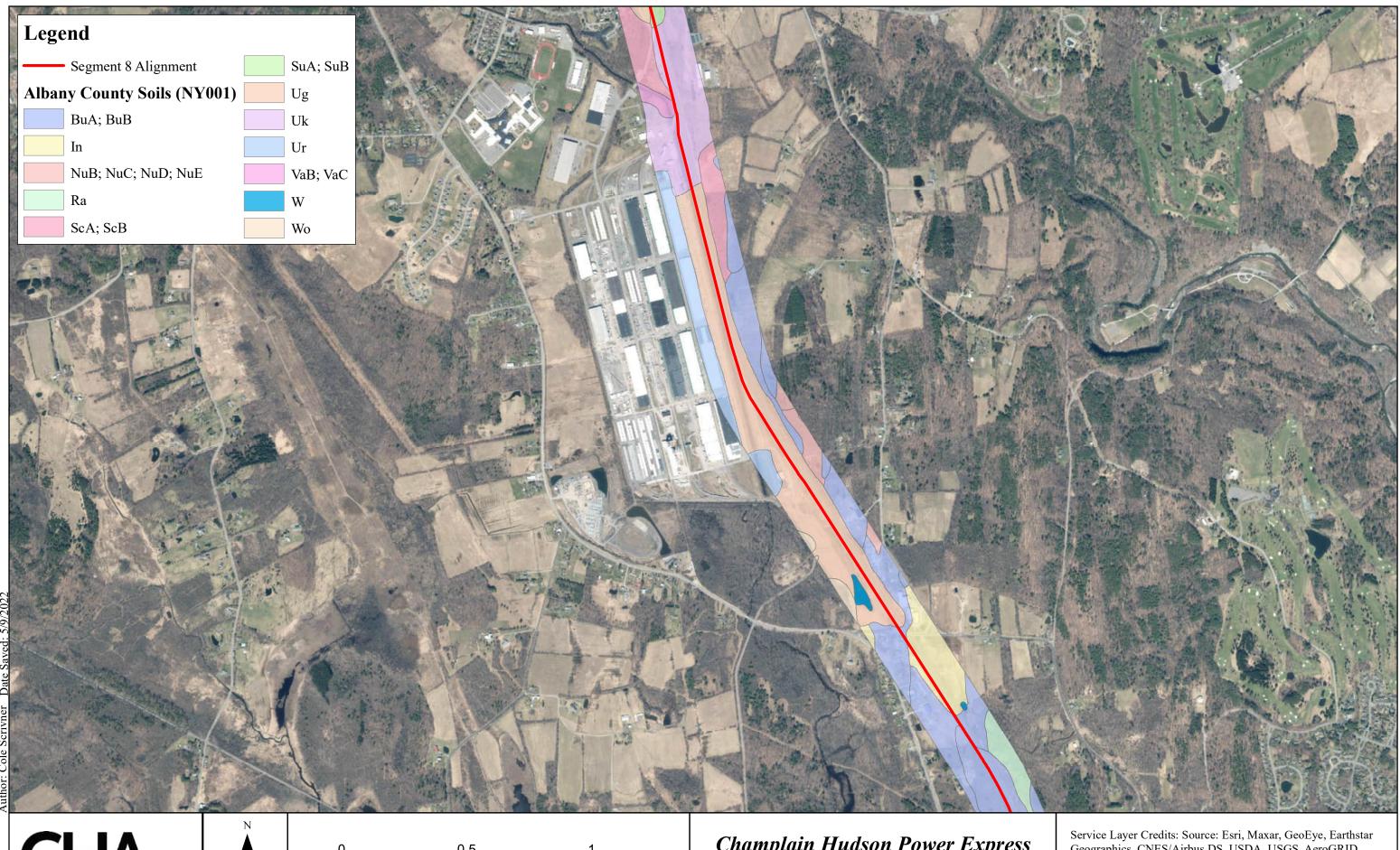


ATTACHMENT 3 NRCS SOIL MAPS







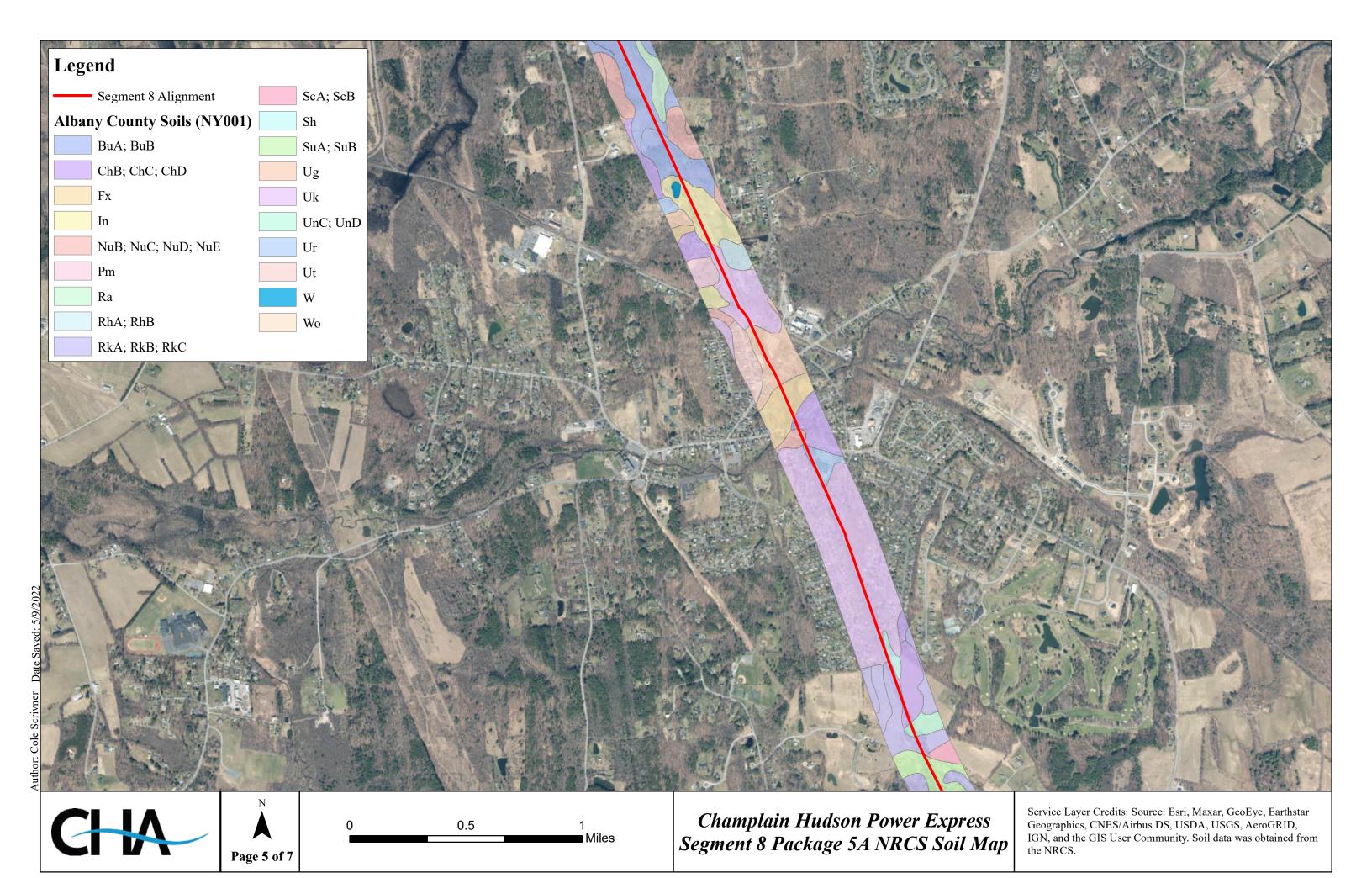


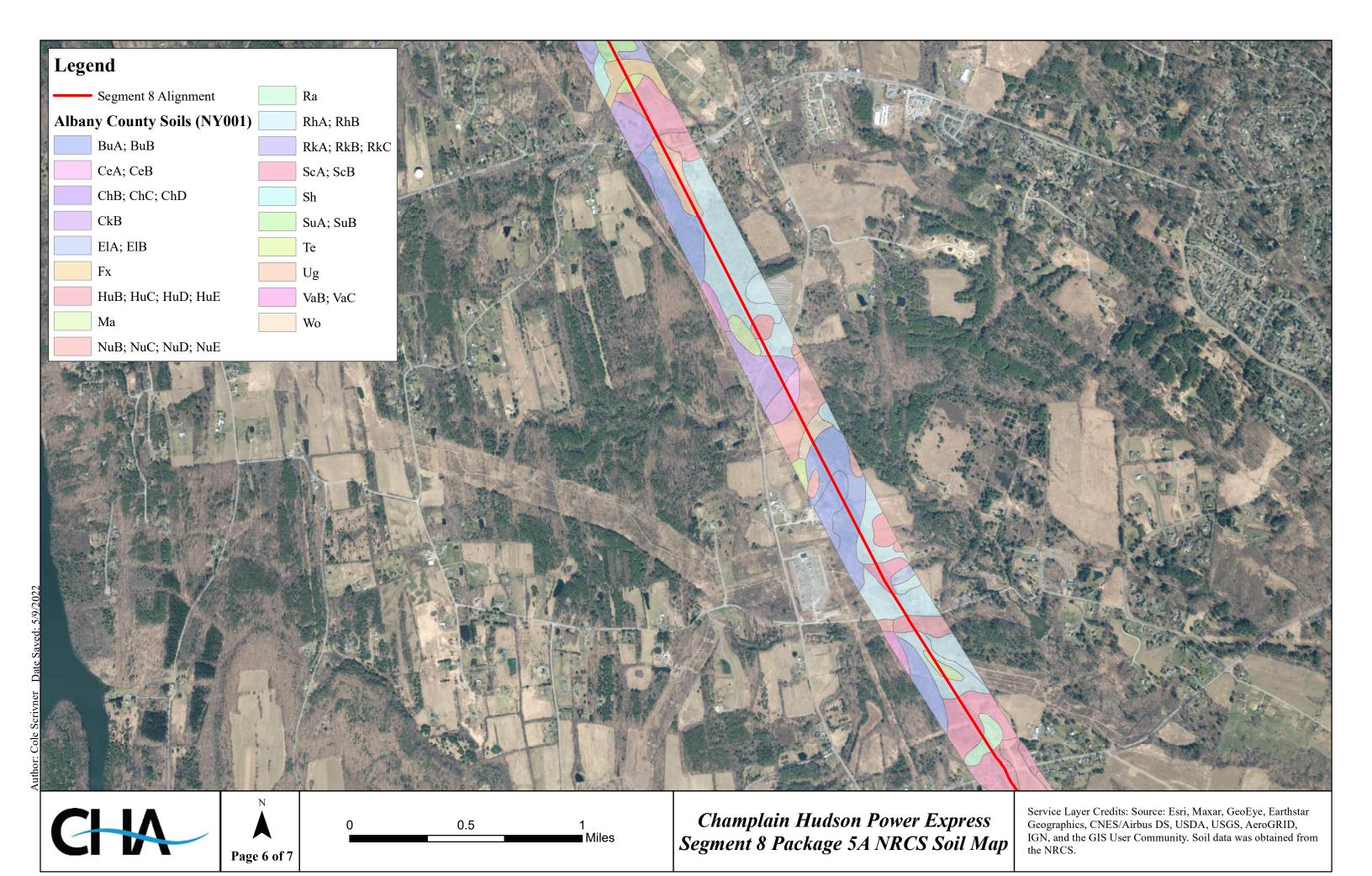
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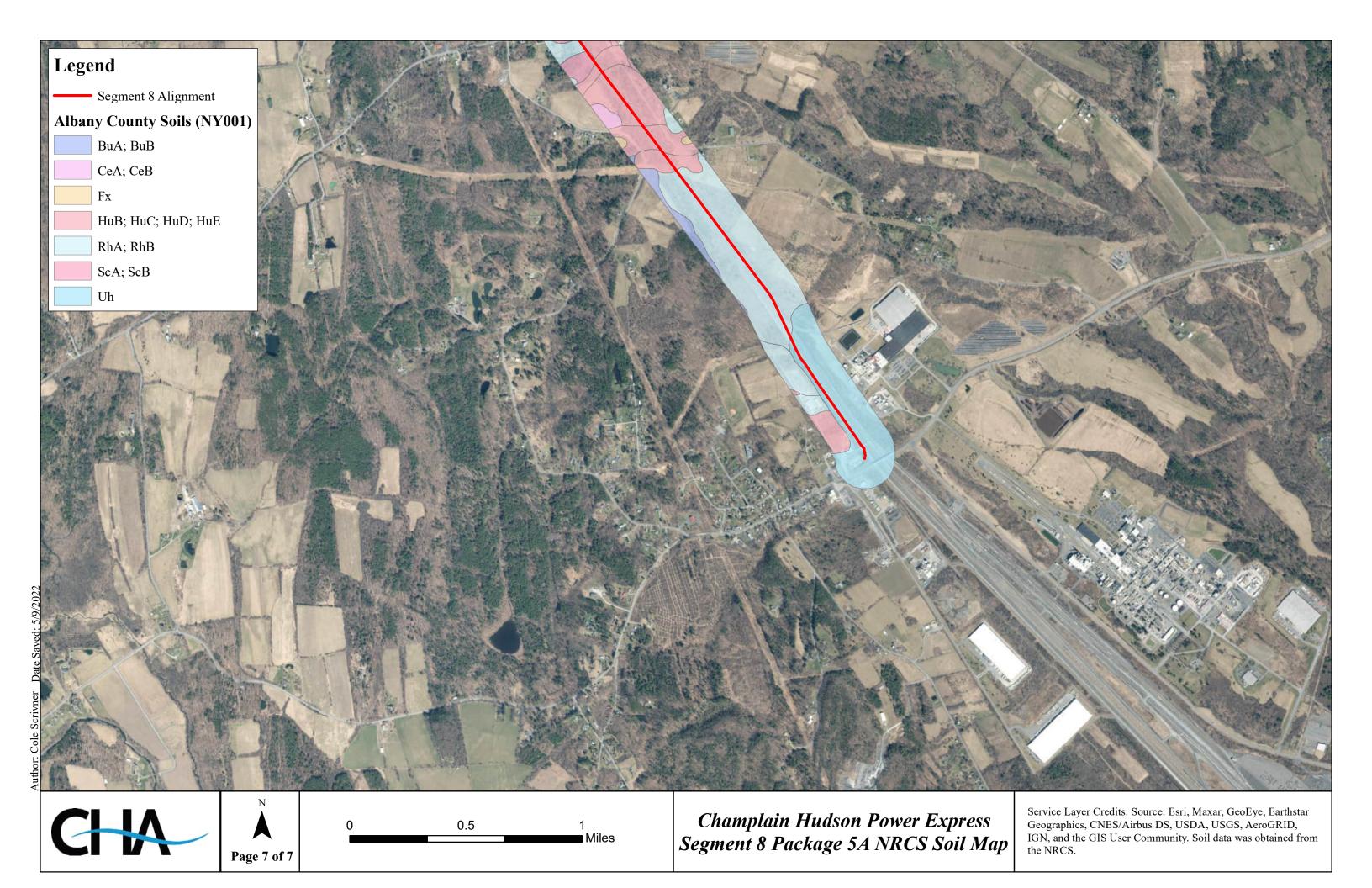


0 0.5 1 Miles

Champlain Hudson Power Express Segment 8 Package 5A NRCS Soil Map Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Soil data was obtained from the NRCS.







ATTACHMENT 4 TABLES

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50069+00 C-403	G-R-B	PFO	None	2,336	USACE	42.786864, -73.993883				
50087+00 C-403	G-R-C	PFO	Unnamed Tributary to Hudson River	29,922	USACE	42.781939, -73.99119				
50095+50 C-404	P5-DB	PEM	None	1133	USACE	42.780105, -73.990434				
50096+50 C-404	P5-Y	PFO	None	1,289	USACE	42.779638, -73.990189				
50103+00		PEM	Unnamed	7,964		42.776656, -73.98825				
C-404	G-R-D	PFO	Tributary to Hudson River (G-R-S-D)	25,045	USACE					
50116+50 C-404	P5-U	PEM	Unnamed Tributary to Hudson River (G-R-S-D)	0	USACE	42.775168, -73.987527				
50122+00		PSS	Unnamed	42,990						
C-405	G-R-E	PEM	Tributary to Hudson River (G-R-S-E)	5,477	USACE	42.772299, -73.985769				
50132-50 C-405	P5-V	PEM	None	354	USACE	42.773216, -73.986612				
50135+00 C-405	G-R-F	PFO	Unnamed Tributary to Hudson River	12,853	USACE	42.770058, -73.984718				
50139+00 C-405	G-R-G	PFO	Unnamed Tributary to Hudson River	49,668	USACE	42.767975, -73.983545				

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹								
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)			
50144+00 C-110	P5-W	PFO	Unnamed Tributary to Hudson River	0	USACE	42.767856, -73.984161			
50146+00	011	PEM	Unnamed	11,202		42.766078,			
C-405	СН	PSS	Tributary to Hudson River	24,214	USACE	-73.982333			
50159+00 C-406	GCI	PSS	Unnamed Tributary to Hudson River (CS33)	0	USACE	42.767856, -73.984161			
50160+00		PEM	Unnamed	3,443	USACE	42.763959,			
C-406	CI	PSS	Tributary to Hudson River (CS33)	8,208		-73.981195			
50164+00 C-406	CJ	PEM	Unnamed Tributary to Hudson River	46,732	USACE	42.762013, -73.980103			
50172+00		PEM	Unnamed	33,499					
C-406	CK	PSS	Tributary to	20,659	USACE	42.757546, -73.977668			
0-100		PFO	Hudson River	120,467		-70.077000			
50198+00	L	PEM	Unnamed	20,212	LICACE	42.754019,			
C-407	L	PFO	Tributary to Hudson River	0	- USACE	-73.975687			
50204+00	M	PSS M PFO	Unnamed Tributary to Hudson River	4,172	1104.05	42.752723, -73.974981			
C-407	IVI			4,639	- USACE				

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50212+00	P5-X	PEM	Unnamed Tributary to	19,332	USACE	42.752108,				
C-408		PFO	Tributary to Hudson River	0	UUAUE	-73.974803				
50218+00	P5A-DD	PEM	Unnamed Tributary to	1,391	USACE	42.74893,				
C-408	1 0.700	PFO	Hudson River (S1)	6,969	00/102	-73.97313				
50225+00 C-408	P5A-EE	PEM	Unnamed Tributary to Hudson River (S2)	0	USACE	42.747370, -73.972275				
50230+00	0	PEM	Unnamed Tributary to	0	USACE	42.745944,				
C-408	Ŭ	PFO	Hudson Řiver (S3)	14,185	USACE	-73.97122				
50233+00 C-408	GP5-E (G5-E)	PFO	Unnamed Tributary to Hudson River (S3)	15,291	USACE	42.743, -73.970167				
50252+00	FA-FN	PEM	Unnamed Tributary to	1,902	USACE	42.740373, -73.968397				
C-409		PSS	Hudson River (S4)	16,051	JOAGE					

		Summany of Wat	Table 4-1	Project Corridor1		
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)
50255+00 C-409	FA-FO	PEM	Unnamed Tributary to Hudson River (S4)	7322	USACE	42.739957, -73.968001
50255+50 C-409	Р	PEM	-	6,965	USACE	42.73968, -73.967801
50258+00	Q	PEM	_	2,902	USACE	42.7388, -73.967395
C-409		PFO		27,449	35/132	
50271+00 C-410	P5-U2	PSS	Unnamed Tributary to Hudson River (S5)	874	USACE	42.735724, - 73.965764
50274+00 C-410	P5-V2	PEM	-	2,369	USACE	42.735, -73.9653
50279+00	R	PEM		15,373	USACE	42.733645,
C-410		PFO	-	0	UUAUL	-73.964513
50284+00 C-410	P5-W2	PEM	Unnamed Tributary to Hudson River (S6)	2,468	USACE	42.7325, -73.9639
50290+50 C-410	P5-CC	PEM	-	1,242	USACE	42.7308, -73.9629
50294+75 C-410	P5-B	PEM	Unnamed Tributary to Hudson River (P5-S2)	0	USACE	42.738356, -73.967156

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹								
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)			
50297+00 C-410	P5-A	PEM	Unnamed Tributary to Hudson River (P5-S1)	669	USACE	42.737901, -73.966825			
50299+25 C-410	P5-BB	PSS	-	869	USACE	42.7286, -73.9619			
50300+00 C-411	S	PEM	-	5,631	USACE	42.728228, -73.961585			
50301+00 C-411	P5-AA	PFO PSS	-	6,217 24,273	USACE	42.728, -73.9619			
50314+00 C-411	P5-D	PSS	Unnamed Tributary to Hudson River	2,938	USACE	42.724799, -73.961215			
5A-05-RD 22+00 C-203	P5-E	PFO	Unnamed Tributary to Hudson River	8,598	USACE	42.723897, -73.961559			
50323+00		PUB	Unnamed	17,666					
C-411	P5-L	PEM	Tributary to Hudson River (S3)	2,680	USACE	42.722197, -73.960508			
5A-05-RD 28+00 C-204	P5-F	PEM	-	0	USACE	42.721239, -73.961498			
50329+00 C-411	Т	PSS	-	8,418	USACE	42.720686, -73.960301			
5A-05-RD 32+00 C-204	P5-G	PSS	Watervliet Reservoir (Trib. To Hudson River)	3,142	USACE	42.720425, -73.961353			
5A-05-RD 35+00 C-204	P5-H	PSS	Watervliet Reservoir (Trib. To Hudson River)	2,041	USACE	42.719901, -73.961380			

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50334+50 C-412	P5-I	PEM	Watervliet Reservoir (Trib. To Hudson River)	2,059	USACE	42.718690, -73.961123				
50336+50 C-412	P5-Q2	PEM	Unnamed Tributary to Hudson River	1,846	USACE	42.718147, -73.959815				
50339+00 C-412	P5-J	PEM	Watervliet Reservoir (Trib. To Hudson River)	1,832	USACE	42.718430, -73.960627				
50343+00 C-412	U	PFO	Watervliet Reservoir (Trib. To Hudson River)	20,599	USACE	42.677289, -73.934003				
50352+00 C-412	V	PFO	Watervliet Reservoir (Trib. To Hudson River)	14,116	USACE	42.714135, -73.96019				
50366+50 C-413	FJ	PEM	-	3,886	USACE	42.71004, -73.960025				
50376+00 C-413	Х	PEM	-	3,217	USACE	42.707791, -73.959709				
50376+575 C-413	P5-R	PUB	-	0	USACE	42.707791, -73.959709				
50379+00 C-413	Υ	PEM	-	4,303	USACE	42.706804, -73.959448				
50386+00	Z	PEM	-	13,055	USACE	42.704431, -				
C-413		PUB		10,047	USACE	73.958701				
50397+00 C-414	AA	PEM	-	1,583	USACE	42.701599, -73.957584				

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹								
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)			
50421+00 C-415	P5A-DB2	PEM	-	0	USACE	42.695781, -73.956265			
50468+00		PEM	Black Creek	77,642	USACE				
C-416	G-R-A	PSS	(G-R-S-A) (Trib. To Hudson River)	103,528	NYSDEC (V-19)	42.680281, - 73.947463			
50504+00 C-417	CA	PEM	Unnamed Tributary to Hudson River	61,131	USACE	42.673428, -73.941334			
50524+00 C-418	DA	PEM	-	25,501	USACE	42.670416, -73.938762			
50542+00 C-419	P5-S	PFO	-	28,304	USACE	42.666023, -73.935790			
50546+00 C-419	P5-T	PFO	-	7,946	USACE	42.665455, -73.935559			
50549+50	P5A-GG	PEM		29,057	USACE	42.6643,			
C-419	1 6/1 66	PFO	-	1,765	USACE	-73.9348			
5A-10-RD 10+50 C-208	P5A-HH	PEM	-	0	USACE	42.663742 -73.935584			
50554+50 C-419	EA	PEM	-	52,945	USACE	42.66157, -73.93306			
50581+00 C-420	FA-AM	PSS	Unnamed Tributary to Hudson River (AL)	1,858	USACE	42.656748, -73.930076			
50582+00 C-420	FA-AK	PSS	Unnamed Tributary to Hudson River (AL)	3,584	USACE	42.656329, -73.929794			

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50602+50 C-421	P5A-FF	PSS	Vly Creek (AG)	559	USACE	42.6515, -73.9263				
50646+00 C-422	FA-AC	PEM	-	3,280	USACE	42.640086, -73.920188				
50667+00 C-423	FA-Z	PEM	Unnamed Tributary to Hudson River (AA)	3,199	USACE	42.635126, -73.917494				
50676+50 C-423	FA-W	PSS	Unnamed Tributary to Hudson River (V)	9,892	USACE	42.63275, -73.915941				
50701+00	CS	PEM	Unnamed Tributary to	3,279	USACE	42.623504,				
C-424		PFO PEM	Hudson River (CS3) Unnamed	126,444	USACE &	-73.909444				
50744+00 C-425	CR	PFO	Tributary to Hudson River	11,391 9,669	NYSDEC (C-5)	42.615945, -73.904253				
50762+00 C-426	CQ	PEM	-	3,348	-	-				
50764+00 C-426	СР	PEM	Vloman Kill	21,624	USACE & NYSDEC (C-5)	42.611309, -73.900947				
50766+50 C-426	СО	PEM	-	2,677	USACE	42.610803, -73.900777				
50768+50 C-426	EDR L	PSS	-	299	USACE	42.610355, -73.900345				
50770+50 C-426	CN	PEM	Vloman Kill	8,300	USACE & NYSDEC (C-5)	42.610046, -73.900088				

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50773+00 C-426	СМ	PEM	Vloman Kill	1,959	USACE & NYSDEC (C-5)	42.609328, -73.899471				
50777+00 C-426	EDR K	PEM	-	4,000	USACE	42.608074, -73.89873				
50796+00 C-427	EDR I	PFO	Unnamed Tributary to Hudson River	17,917	USACE	42.603802, -73.894971				
50800+00	500 H	PEM	Unnamed	1,492		42.602871, -73.894204				
C-427	C-427 EDR H	PFO	Tributary to Hudson River	3,839	USACE					
50830+00 C-428	P5A-B	PFO	Unnamed Tributary to Hudson River	0	USACE	42.595559, -73.887259				
50835+25 C-428	EDR G	PEM	Unnamed Tributary to Hudson River (EDR STB)	0	USACE	42.595194, -73.886696				
50835+50 C-428	P5-O	PSS	Unnamed Tributary to Hudson River	9,105	USACE	42.595014, -73.887470				
50841+00		PEM	Unnamed	12,806						
C-429	P5-N	PSS	Tributary to Hudson River (P5-S5)	23,874	USACE	42.593637, -73.885883				
50852+00 C-429	P5A-A	PSS	Unnamed Tributary to Hudson River	0	USACE	42.59073, -73.88396				
50871+00 C-430	P5-P	PSS	Unnamed Tributary to Hudson River (P5-S5)	0	USACE	42.586667, -73.879444				

	Table 4-1 Summary of Wetlands Within the Project Corridor ¹									
Approximate Station & Dwg. No.	Wetland ID	Cowardin Classification ²	Associated Water Course	Area w/in JD Limits Square Feet (sf)	USACE & NYSDEC Jurisdiction	Coordinates (lat., long)				
50872+00 C-430	EDR C	PEM	Unnamed Tributary to Hudson River	0	USACE	42.587397, -73.87912				
50876+00 C-430	EDR B	PEM	Unnamed Tributary to Hudson River	00	USACE	42.579734, -73.874209				
50889+50 C-430	EDR A	PEM	-	0	USACE	42.583008, -73.8752 49				
50895+00 C-430	P5-C	PEM	Unnamed Tributary to Hudson River (P5-S5)	14,177	USACE	42.580982, -73.874049				
50899+00 C-430	A-1	PEM	Unnamed Tributary to Hudson River	0	USACE	42.580431, -73.873516				

Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson River | Hudson

²Cowardin et al. 1979 categories include: Palustrine Emergent (PEM), Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS) and palustrine unconsolidated bottom (PUB).

		Summ	ary of Waterb	Table 4-2	ne Project Co	orridor			
Approximate Station & Dwg. No.	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Width (ft.) ¹	Depth (ft.) ¹	Length w/in JD Boundary	Coordinates (lat., long)
50014+00 C-401	Poentic Kill	B/B	S1A 876-99	Perennial	Cobble- gravel/bou lders	35	3	367	42.800880, -74.001077
50014+50 C-401	Unnamed Tributary to Hudson River	Unmapped	S2A	Intermittent	Cobble- gravel	4	2	0	42.800436, -74.002091
50110+80 C-404	Unnamed Tributary to Hudson River	Unmapped	G-R-S-D	Intermittent	Cobble- gravel/silt/ sand	30	5	510	42.776221, -73.988055
50125+80 C-405	Unnamed Tributary to Hudson River	C/C(T)	G-R-S-E 863-688	Perennial	Silt	25	3	94	42.772545, -73.985929
50161+00 C-406	Unnamed Tributary to Hudson River	C/C	CS33 863-686	Intermittent	Mineral soil/silt	5	1	56	42.763729, -73.981032
50204+50 C-407	Unnamed Tributary to Hudson River	C/C	S3A 863-686	Intermittent	Mineral soil/silt	6	1	133	42.752723, -73.974981
50219+50 C-408	Unnamed Tributary to Hudson River	C/C	S1 863-686	Perennial	Silt	5	1	112	42.748849, -73.97294
50225+50 C-408	Unnamed Tributary to Hudson River	C/C	S2 863-686	Intermittent	Cobble- gravel	6	2	203	42.747301, -73.972106
50230+75 C-408	Unnamed Tributary to Hudson River	Unmapped	S3	Intermittent	Silt	7	0.5	62	42.745939, -73.971283

				Table 4-2					
		Summ	ary of Waterbo	odies within tl	ne Project Co	orridor			
Approximate Station & Dwg. No.	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Width (ft.) ¹	Depth (ft.) ¹	Length w/in JD Boundary	Coordinates (lat., long)
50251+50 C-409	Unnamed Tributary to Hudson River	C/C	S4 863-684	Intermittent	Cobble- gravel/silt	6	1	75	42.740713, -73.968417
50270+75 C-410	Unnamed Tributary to Hudson River	C/C	S5 863-684	Perennial	Silt	6	1	200	42.735724, - 73.965764
50282+75 C-410	Unnamed Tributary to Hudson River	Unmapped	S6	Intermittent	Silt	3	2	121	42.73281, - 73.964014
50294+50 C-410	Unnamed Tributary to Hudson River	Unmapped	P5-S2	Perennial	Cobble- gravel	9	1.5	122	42.738356, -73.967156
50297+00 C-410	Unnamed Tributary to Hudson River	C/C	P5-S1 863-684	Intermittent	Cobble- gravel	5.5	2	191	42.737901, -73.966825
50323+00 C-411	Unnamed Tributary to Hudson River	Unmapped	P5-SD	Intermittent	Cobble- gravel/min eral	4	1	68	42.722448, -73.960761
50363+00 C-413	Normans Kill	B/B	Normans Kill 863-638	Perennial	Bedrock/ Cobble- gravel	200	6	141	42.711423, -73.959913
50413+75 C-414	Unnamed Tributary to Hudson River	Unmapped	P5-S4	Perennial	Mineral	2.5	0.5	0	42.697547, -73.957013
50414+00 C-414	Black Creek	C/C	G-R-S-A 863-669	Perennial	Cobble- gravel/silt	30	3	5,223	42.692282, -73.954718
5A-07-RTE C-216	Black Creek	C/C	FF 863-669	Perennial	Cobble- gravel/silt	26	3	0	42.683433, -73.951788

	Table 4-2 Summary of Waterbodies within the Project Corridor									
		Summ	1	odies within th	ne Project Co	orridor		1		
Approximate Station & Dwg. No.	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Width (ft.) ¹	Depth (ft.) ¹	Length w/in JD Boundary	Coordinates (lat., long)	
50477+00 C-416	Unnamed Tributary to Hudson River	Unmapped	G-R-S-B	Intermittent	Silt	2	0.5	29	42.681639, -73.948538	
50488+85 C-417	Unnamed Tributary to Hudson River	Unmapped	G-R-S-C	Intermittent	Silt	2	0.5	0	42.678851, -73.946041	
50581+30 C-420	Unnamed Tributary to Hudson River	C/C	AL 863-655	Intermittent	Cobble- gravel/silt	14	2.5	0	42.656575, -73.929989	
50584+00 C-420	Unnamed Tributary to Hudson River	Unmapped	AJ	Intermittent	Cobble- gravel/silt	4	1	70	42.656016, -73.929564	
50603+00 C-421	Vly Creek	C/C(TS)	AG 863-651.1	Perennial	Cobble- gravel/silt	40	3.5	123	42.651301, -73.926245	
50666+00 C-423	Unnamed Tributary to Hudson River	C/C	AA 863-588	Intermittent	Cobble- gravel/silt	7	1.5	81	42.635162, -73.917665	
50677+50 C-423	Unnamed Tributary to Hudson River	C/C	V 863-588	Perennial	Cobble- gravel/silt	12	1	146	42.632517, -73.915798	
50681+00 C-423	Unnamed Tributary to Hudson River	Unmapped	U	Intermittent	Cobble- gravel/silt	3	1	1,118	42.631037, -73.914777	
50689+50 C-423	Unnamed Tributary to Hudson River	Unmapped	Т	Intermittent	Cobble- gravel/silt	6	1.5	116	42.629612, -73.913746	

				Table 4-2					
		Summ	ary of Waterb	odies within tl	ne Project Co	orridor			
Approximate Station & Dwg. No.	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Width (ft.) ¹	Depth (ft.) ¹	Length w/in JD Boundary	Coordinates (lat., long)
50692+50 C-424	Unnamed Tributary to Hudson River	Unmapped	Y	Intermittent	Silt	4	1	226	42.628834, -73.913279
50718+00 C-424	Unnamed Tributary to Vloman Kill	Unmapped	CS3	Intermittent	Silt	6	0.5	156	42.622698, -73.908905
50732+60 C-425	Unnamed Tributary to Hudson River	C/C	CS2 863-588	Intermittent	Cobble- gravel	10	1	22	42.618989, -73.906534
50746+50 C-425	Unnamed Tributary to Hudson River	C/C	CS1 863-588	Intermittent	Cobble- gravel/silt	4	1	100	42.615744, -73.904125
50782+05 C-427	Unnamed Tributary to Hudson River	C/C	EDR STE 863-588	Perennial	Silt/cobble -gravel, sand	8	1	46	42.607205, -73.897843
50816+15 C-428	Unnamed Tributary to Hudson River	Unmapped	EDR STD	Perennial	Silt/cobble -gravel	5	1	90	42.599343, -73.890904
50819+75 C-428	Unnamed Tributary to Hudson River	C/C	EDR STC 863-588	Perennial	Silt/cobble -gravel	5	1	64	42.598564, -73.890077
50834+75 C-428	Unnamed Tributary to Hudson River	C/C	EDR STB 863-588	Perennial	Silt/cobble -gravel, sand	20	2	0	42.595301, -73.886726

Table 4-2 Summary of Waterbodies within the Project Corridor										
Approximate Station & Dwg. No.	Waterbody Name	NYSDEC Classification	Waterbody Field ID & NYSDEC Regulation	Flow Status	Substrate	Width (ft.) ¹	Depth (ft.) ¹	Length w/in JD Boundary	Coordinates (lat., long)	
50834+75 C-428	Unnamed Tributary to Hudson River	C/C	P5-S6 863-588	Intermittent	Silt	5	1	0	42.599306, -73.891176	
50856+00 C-429	Unnamed Tributary to Hudson River	Unmapped	P5-S5	Perennial	Cobble- gravel/min eral	4	0.5	4,630	42.586767, -73.879520	
50858+00 C-429	Unnamed Tributary to Hudson River	Unmapped	P5A-S1	Intermittent	Boulder- cobble- gravel/min eral	4	1	186	42.5898, -73.8826	
50881+00 C-430	Unnamed Tributary to Hudson River	Unmapped	EDR STA	Perennial	Cobble- gravel	3	0.5	0	42.58215, -73.874067	

¹ Bankfull width and bankfull depth measurements are approximate.

	Table 4-3 Soil Description Summary								
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class				
		Hydric Soils							
Albany	Allis silt loam	Ae	0-3	Y	Poorly Drained				
Albany	Birdsall mucky silt loam	Br	0-2	Y	Very Poorly Drained				
Schenectady	Cheektowaga	Се	0-3	Υ	Very Poorly Drained				
Albany	Fluvaquents-Udifluvents complex, frequently flooded	Fx	0-3	Υ	Poorly Drained				
Albany	Granby loamy fine sand	Gr	0-2	Y	Very Poorly Drained				
Schenectady	Granby loamy fine sand	Gr	0-3	Y	Poorly Drained				
Albany	Ilion silt loam	In	0-3	Υ	Poorly Drained				
Schenectady	Junius loamy fine sand	Ju	0-3	Υ	Poorly Drained				
Albany	Madalin silt loam	Ma	0-3	Υ	Poorly Drained				
Schenectady	Madalin silty clay loam	Ma	0-3	Υ	Poorly Drained				
Albany	Raynham very fine sandy loam	Ra	0-3	Υ	Poorly Drained				
Albany	Shaker fine sandy loam	Sh	0-3	Y	Poorly Drained				
Albany	Wayland soils complex, non- calcareous substratum	Wo	0-3	Y	Poorly Drained				
Schenectady	Wayland soils complex	Wy	0-3	Y	Poorly Drained				

	Table 4-3 Soil Description Summary								
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class				
		Non-hydric So	oils						
Albany	Burdett silt loam	BuA	0-3	N	Somewhat Poorly Drained				
Albany	Burdett silt loam	BuB	3-8	N	Somewhat Poorly Drained				
Albany	Castile gravelly loam	CeA	0-3	N	Moderately Well Drained				
Albany	Castile gravelly loam	СеВ	3-8	N	Moderately Well Drained				
Albany	Chenango channery silt loam, fan	CkB	3-8	N	Well Drained				
Albany	Chenango gravelly silt loam, loamy substratum	ChB	3-8	N	Well Drained				
Albany	Chenango gravelly silt loam, loamy substratum, rolling	ChC	8-15	N	Well Drained				
Albany	Chenango gravelly silt loam, loamy substratum, hilly	ChD	15-25	N	Well Drained				
Albany/Schenectady	Claverack loamy fine sand	CIA	0-3	N	Moderately Well Drained				
Albany/Schenectady	Claverack loamy fine sand	CIB	3-8	N	Moderately Well Drained				
Schenectady	Colonie loamy fine sand	CoA	0-3	N	Well Drained				
Albany	Colonie loamy fine sand	СоВ	3-8	N	Well Drained				
Albany	Colonie loamy fine sand, rolling	CoC	8-15	N	Somewhat Excessively Drained				

	Table 4-3 Soil Description Summary								
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class				
Schenectady	Colonie loamy fine sand	CoC	3-15	N	Well Drained				
Albany	Colonie loamy fine sand, hilly	CoD	15-25	N	Somewhat Excessively Drained				
Albany	Cosad	Cs	0-3	N	Somewhat Poorly Drained				
Albany	Dumps	Du	-	-	-				
Albany	Elmridge fine sandy loam	EIA	0-3	N	Moderately Well Drained				
Albany	Elmridge fine sandy loam	EIB	0-3	N	Moderately Well Drained				
Schenectady	Elnora loamy fine sand	En	0-3	N	Moderately Well Drained				
Albany	Elnora loamy fine sand	EnA	0-3	N	Moderately Well Drained				
Albany	Elnora loamy fine sand	EnB	3-8	N	Moderately Well Drained				
Schenectady	Howard soils, very steep	HTF	25-70	N	Well Drained				
Schenectady	Hudson silty clay loam	HuB	3-8	N	Moderately Well Drained				
Schenectady	Hudson silty clay loam	HuC	8-15	N	Moderately Well Drained				
Albany	Hudson silt loam	HuB	3-8	N	Moderately Well Drained				
Albany	Hudson silt loam	HuC	8-15	N	Moderately Well Drained				
Albany	Hudson silt loam, hilly	HuD	15-25	N	Moderately Well Drained				

	Soil 1	Table 4-3 Description Sur	nmary		
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Albany	Hudson silt loam	HuE	25-45	N	Moderately Well Drained
Schenectady	Mardin gravelly silt loam	MrB	3-8	N	Moderately Well Drained
Albany	Nunda silt loam	NuB	3-8	N	Moderately Well Drained
Albany	Nunda silt loam	NuC	8-15	N	Moderately Well Drained
Albany	Nunda silt loam	NuD	15-25	N	Moderately Well Drained
Albany	Nunda silt loam	NuE	25-35	N	Moderately Well Drained
Albany	Pits, gravel	Pm	-	-	-
Albany	Pits, quarry	Pn	-	-	-
Schenectady	Plainfield loamy sand	PsA	0-3	N	Excessively Drained
Schenectady	Plainfield loamy sand	PsB	3-10	N	Excessively Drained
Albany/Schenectady	Rhinebeck silty clay loam	RhA	0-3	N	Somewhat Poorly Drained
Albany/Schenectady	Rhinebeck silty clay loam	RhB	3-8	N	Somewhat Poorly Drained
Albany	Riverhead fine sandy loam	RkA	0-3	N	Well Drained
Albany	Riverhead fine sandy loam	RkB	3-8	N	Well Drained
Albany	Riverhead fine sandy loam	RkC	8-15	N	Well Drained
Albany	Scio silt loam	ScA	0-3	N	Moderately Well Drained

	Soil I	Table 4-3 Description Su	mmary		
County	Soil Name	Symbol	% Slopes	Hydric (y/n)	Drainage Class
Albany	Scio silt loam	ScB	3-8	N	Moderately Well Drained
Albany	Stafford loamy fine sand	St	0-3	N	Somewhat Poorly Drained
Albany	Sudbury fine sandy loam	SuA	0-3	N	Moderately Well Drained
Albany	Sudbury fine sandy loam	SuB	3-8	N	Moderately Well Drained
Albany	Teel silt loam	Te	0-3	N	Moderately Well Drained
Albany	Udorthents, clayey-Urban land complex	Uh	0-8	-	Moderately Well Drained
Albany	Udorthents, loamy	Ug	0-8	-	Moderately Well Drained
Albany	Udorthents, loamy-Urban land complex	Uk	0-8	-	Well Drained
Albany	Unadilla silt loam	UnC	8-15	N	Well Drained
Albany	Unadilla silt loam	UnD	15-25	N	Well Drained
Albany	Urban land	Ur	-	N	-
Schenectady	Urban land-Colonie complex	UR	0-3	N	Well Drained
Albany	Urban land-Udorthents complex	Ut	0-8	-	Moderately Well Drained
Albany	Valois gravelly loam	VaB	3-8	N	Well Drained
Albany	Valois gravelly loam	VaC	8-15	N	Well Drained

ATTACHMENT 5 WETLANDS AND WATERBODIES DELINEATION MAPPING



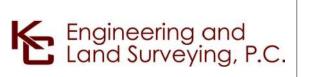


E&SC KEY PLAN

SCALE: 1" = 2000'









IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY	
ARE ACTING UNDER THE DIRECTION OF A LICENSED	
ROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT	
R LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN	
EM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS	
LITERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE	
CHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY	
HEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A	
SPECIFIC DESCRIPTION OF THE ALTERATION.	
of Editio Beddin Holl of the Alteration.	

					CHAN
					SEGM
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MK	NH	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY:

AMPLAIN HUDSON POWER EXPRESS EGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM E&SC KEY PLAN

DESIGNED BY:

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO. **C-400**

AS SHOWN DATE 0 SH.NO. APPROVED BY: NH SCALE REV. NO.

EXISTING SIGN EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. GAS LINE — G — G — EXIST. UNDERGROUND TELE. — — UT — UT — EXIST. FIBER OPTIC — F0 — F0 — EXIST. OVERHEAD TELE. — — ot — — ot — EXIST. UNDERGROUND ELEC. — — UE — — UE — EXIST. OVERHEAD ELEC. — OE — OE — EXIST. CULVERT — st — st — EXIST. SANITARY SEWER — — ss — — ss — EXIST. STORM SEWER — — ST — — ST — EXIST. POTABLE WATER LINE — — w — — w — EXIST. FUEL LINE EXIST. RAILROAD TRACK ⊗ CERTIFIED ROUTE MP XX CERTIFIED ROUTE PROVIDED BY CHPE KMZ ⊗ RANDALL PREFERRED MP XX RANDALL PREFERRED PROVIDED BY CHPE KMZ EXIST. CONTOUR, INDEX EXIST. CONTOUR, DEPRESSION INDEX EXIST. CONTOUR, INTERMEDIATE -^_---EXIST. CONTOUR, DEPRESSION INTERMEDIATE $\times^{139.7}$ EXIST. SPOT ELEVATION EXIST. DEBRIS EXIST. FIELD LINE EXIST. LANDSCAPE AREA EXIST. PILE EXIST. STORAGE AREA EXIST. NATURAL BOULDER EXIST. NATURAL SHRUB LINE EXIST. NATURAL TREE LINE \bigcirc \bigcirc \bigcirc EXIST. NATURAL SINGLE TREE/BUSH EXIST. STRUCTURAL BUILDING EXIST. PAVED DRIVE EXIST. PAVED ROAD EXIST. PAVED SHOULDER EXIST. PAVED SIDEWALK EXIST. GUARDRAIL EXIST. TRAIL EXIST. FENCE EXIST. WALL EXIST. RETAINING WALL EXIST. MILEPOST NUMBER EXIST. MAPPING BOUNDARY EXIST. GROUND CONTROL EXIST. RIGHT-OF-WAY

1...*...*...* :<u>* .. * .. * .. *</u>

PEM - PALUSTRINE EMERGENT PSS - PALUSTRINE SCRUB-SHRUB PFO - PALUSTRINE FORESTED PUB - PALUSTRINE UNCONSOLIDATED BOTTOM L1 - LACUSTRINE LIMNETIC L2 - LACUSTRINE LITTORAL NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA ESTIMATED WETLAND BOUNDARY ESTIMATED AGRICULTURAL LAND BOUNDARY FLOODWAY BOUNDARY 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY 0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY JD BOUNDARY APPROX. USACE FEDERAL CHANNEL BOUNDARY (TYP.)

VEG. CLEARING - TYPE I - HAND CUTTING APPROVED CENTERLINE VEG. CLEARING - TYPE II - MECHANICAL CLEARING CORRUGATED METAL PIPE CMP VEG. CLEARING - TYPE III - MOWING CONC CONCRETE VEG. CLEARING - TYPE IV - MECHANICAL WHOLE-TREE FELLING DB DESIGNED BY PROP. WETLAND PROTECTION FENCE DEC NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PROP. COMPOST FILTER SOCK (OR SILT SOCK) DEG DEGREES CHECK DAM DR DRIVE SURFACE WATER FLOW DΖ DEVIATION ZONE $\leftrightarrow\sim$ EASTING PROP. TEMPORARY SWALE **ELECTRIC** ELECTRIC CABLE STABILIZED CONSTRUCTION ENTRANCE (TYP.) ELEV ELEVATION PROP. TEMP MAJOR CONTOUR STATION EQUATION AHEAD EQNAHD PROP. TEMP MINOR CONTOUR STATION EQUATION BACK EQNBK PROP. LIMITS OF WORK/DISTURBANCE ----LOW-----EXIST EXISTING \sim PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS **FIBER** FIBER OPTIC CABLE PROP. CONCRETE WASHOUT FEET FT ____ PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE) GAS GAS PIPE PROP. TEMP REFURBISHED ACCESS ROAD HORIZONTAL HORIZONTAL DIRECTIONAL DRILLING HDD PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD PROP. WETLAND OR AGRICULTURAL LAND* WORKING SURFACE HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE HVDC (SEE SHEET C-613) (*AGRICULTURAL LANDS MAY USE WETLAND INVERT ELEVATION INV WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS) LIMITS OF WORK LOW PROP. MILLING & RESURFACING r - -LT LEFT PROP. SPLICE LOCATION MAXMAXIMUM PROP. SPLICE VAULT MINIMUM PROP. LINK BOX HANDHOLE NORTHING PROP. FIBER SPLICE HANDHOLE NUMBER PROP. BORING LOCATION NEW YORK XXXXX+XX PROP. ALIGNMENT STATIONING NYCDEP NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION PROP. ALIGNMENT CENTERLINE NYCDOT NEW YORK CITY DEPT. OF TRANSPORTATION PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA NYDPR NEW YORK CITY DEPT. OF PARKS AND RECREATION PROP. WORK AREAS P# PACKAGE # PERM PERMANENT 7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF PROP. PROPOSED THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL POLYVINYL CHLORIDE PROP. SHORING/SHEETING ΡVI POINT OF VERTICAL INTERSECTION PROP. TEMP EASEMENT RADIUS REINFORCED CONCRETE PIPE PROP. PERM EASEMENT RD ROAD PROP. TEMP ACCESS EASEMENT REV REVISION SPLICE LOCATION POLE MARKER ROW RIGHT-OF-WAY RIGHT UNDERGROUND POWER CABLE POLE MARKER RTE ROUTE **SEWER** SANITARY SEWER PIPE PROP. TRANSITION BOX MANHOLE SH SHEET DC CABLE IDENTIFICATION TAGS. SEE SHEET C-807 FOR MORE DETAILS ST STREET |A (-)| |B (+)| STA STATION STORM STORM DRAIN PIPE TELECOM TELECOMMUNICATIONS CABLE TEMP **TEMPORARY** TR THERMAL RESISTIVITY **TYPICAL** TYP VERTICAL WATER WATERLINE

NOTES:

→XX-##

1. LIMIT OF WORK (LOW) - THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).

EXIST. ABUTTER

EXIST. WETLAND FLAG

EXIST. WATERBODY, STREAM, OR STREAM BANK

EXIST. WETLANDS



CAPPED IRON ROD

CONCRETE BOUNDARY

O IRON PIPE

EXISTING CAPPED IRON ROD

EXISTING CONCRETE MONUMENT

EXISTING REFLECTOR MARKER

EXISTING IRON PIPE

EXISTING POST

EXISTING SYMBOL





IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

			CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM									EWIT PROJECT NO. 21162
					LEGEND AND ABBREVIATIONS							DRAWING NO.
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK		T	T		SCALE	AS SHOWN	DATE	06/09/2023
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: AR	DESIGNED BY: BV	APPROVED BY:		REV. NO.		SH.NO.	6 OF

