

Wetland Z- View facing North



Wetland Z- Soils

### **SITE PHOTOGRAPHS**

Project/Site:	Champlain Huds	son Express		City/Co	ounty: <u>Alban</u> y	y	Sampling Date:	November 15, 2021		
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-Z-Upland		
Investigator(s):	Tristen Petersor	ก		Section,	Township, Range	e: Slingerland	_			
Landform (hillslope	-	Terrace			lief (concave, con			Slope (%): 1		
, ,	,							Datum: NAD83		
Subregion (LRR or		LRR R		Lat: 42.63524	48 N	Long: -73.917517°W				
Soil Map Unit Nam	ie: <u>SuA - Sudbu</u>	ury fine sandy loam	, 0 to 3 perce	ent slopes		NWI cl	lassification: Not N	Mapped		
Are climatic / hydro	ologic conditions or	n the site typical for	r this time of	year? Yes	X N	lo (If no, explai	n in Remarks.)			
Are Vegetation _	, Soil	, or Hydrology	sig	gnificantly disturb	ed? A	Are "Normal Circumstance	es" present?	Yes X No		
Are Vegetation _	, Soil	, or Hydrology	na	aturally problemat	.ic? (I	If needed, explain any ans	swers in Remarks.)			
SUMM	ARY OF FIND	INGS – Attach	ı site map	showing sa	mpling point	t locations, transec	cts, important f	features, etc.		
Hydrophytic Veg	etation Present?	Yes	No	o <b>X</b>	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	o <b>X</b>	within a Wetl		No .	X		
Wetland Hydrolo	gy Present?	Yes	No	o <b>X</b>	If yes, optiona	al Wetland Site ID:				
HYDROLOGY										
Wetland Hydrol						Second	any Indicators (minir	mum of two required)		
		- 's required; check	· -II that annl	\				num or two required)		
-	•	e is required; check			- (DO)		ce Soil Cracks (B6)			
Surface Wa	, ,		_	er-Stained Leaves	s (B9)		age Patterns (B10)			
High Water Saturation (	• •			atic Fauna (B13) Deposits (B15)			Trim Lines (B16) eason Water Table	(C2)		
Water Marks	,		· · · · · · · · · · · · · · · · · · ·	rogen Sulfide Odd	or (C1)	<del></del> -	sh Burrows (C8)	(02)		
·	Deposits (B2)			_	es on Living Roots			al Imagery (C9)		
Drift Deposi				ence of Reduced		<del>_</del>				
Algal Mat or	,				` '	n Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposit	` '			Muck Surface (C	,	Shallow Aquitard (D3)				
Inundation \	Visible on Aerial In	nagery (B7)		er (Explain in Rem		ks) Microtopographic Relief (D4)				
Sparsely Ve	egetated Concave	Surface (B8)	_			FAC-N	Neutral Test (D5)			
Field Observation	ons:									
Surface Water Pr		Yes No								
Water Table Pres	sent?	Yes No				Wetland Hydrology I	Present? Yes	No <u>X</u>		
Saturation Prese		Yes No	<b>X</b> Dep	oth (inches):						
(includes capillar	-	itoring u	" serial ph	ta a sandaya ing	if eveil					
Describe Record	ed Data (stream g	auge, monitoring w	/eli, aeriai prid	otos, previous ins	spections), ii avaii	able:				
Remarks:										
No wetland hyd	drology present a	at data point								

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:	
1		- Сресиоси	Giaido	Number of Dominant Species That Are OBL, FACW, or FAC	: 0 (A)
2.				That Are OBL, FACW, or FAC	.: <u> </u>
				Total Number of Dominant Species Across All Strata:	4 (B)
3				opedies / torous / till ottata.	(D)
4				Percent of Dominant Species That Are OBL, FACW, or FAC	: 0 (A/B)
5				, , , , , ,	(,,
6				Prevalence Index worksheet	::
7				Total % Cover of:	Multiply by:
	0_=	= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0  FAC species 10	x = 0 x = 30
Fagus grandifolia	5	Yes	FACU	FACU species 65	x = 30 x = 40
2				UPL species 0	
3				Column Totals: 75	
4				<u> </u>	(=)
5				Prevalence Index = B/A	= 3.86
6.				Hydrophytic Vegetation Indi	cators:
7				1 - Rapid Test for Hydrop	phytic Vegetation
		T		2 - Dominance Test is >5	
Herb Stratum (Plot size: 5 ft.)	5	= Total Cover		— 3 - Prevalence Index is ≤ 4 - Morphological Adapta	
4 4 6	20	Vaa	NII	data in Remarks or o	
1. Arctium spp.		Yes	NI STAN	Problematic Hydrophytic	Vegetation 1 (Evaloin)
	25		FACU		
3. Rubus idaeus			FACU	<sup>1</sup> Indicators of hydric soil and v be present, unless disturbed of	·
4. Galium boreale			FAC		
5				Definitions of Vegetation St	
6				Tree – Woody plants 3 in. (7.6	·
7				at breast height (DBH), regard	_
8				Sapling/shrub – Woody plant and greater than or equal to 3	
9					,
10				Herb – All herbaceous (non-w size, and woody plants less th	
11					
12				<b>Woody vines</b> – All woody vine height.	es greater than 3.28 it in
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic	
				Vegetation	No. X
3				Present? Yes	NoX
4					
	0	= Total Cover	•		
Remarks: (Include photo numbers here or on a separate No hydrophytic vegetation found at data point	sheet.)				
The Tryanophytic Togotation Todate at Sata point					

SOIL Sampling Point: DP-Z-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/1 100 Silty Clay Loam 10YR 4/2 100 Sandy Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Depth (inches): Hydric Soil Present? Yes Remarks: No hydric soils present at data point



**Upland Z- View facing North** 



**Upland Z- Soils** 

### **SITE PHOTOGRAPHS**

Project/Site:	Champlain Huds	son Express		_ City/County	y: <u>Albany</u>		Sampling Date:	November 15, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-W
Investigator(s):	Tristen Petersor	<u>n</u>		_Section, Tov	wnship, Range:	Slingerland	<u>I</u>	
Landform (hillslope,	, terrace, etc.):	Depression		Local relief (	(concave, convex, r	none): <u>C</u>	Concave	Slope (%):1
Subregion (LRR or	MLRA):	LRR R	Lat:	42.632900°N	N Long:	: -73.916086	3°W	Datum: NAD83
Soil Map Unit Name	e: <u>Fx - Fluvaq</u> ւ	uents-Udifluvents com	plex, frequently flc	ooded			NWI classification: Not N	lapped
Are climatic / hydrol	- logic conditions o	n the site typical for th	is time of year? Y	es	X No	(If no,	explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significant	tly disturbed?				Yes <b>X</b> No
		, or Hydrology					any answers in Remarks.)	
					`		ansects, important f	eatures, etc.
Hydrophytic Vege			X No		Is the Sampled Ar within a Wetland?		Yes X No	
Hydric Soil Prese			X No					
Wetland Hydrolog	•	Yes dures here or in a sepa	X No		If yes, optional Wet	tland Site ID:	<u>V</u>	
		nd FA-W on v	vetland ma	apping a	ind in repor	t text.		
HYDROLOGY							1 1 1: 4 - 7 - 1: 1:	(1 in- d)
Wetland Hydrolo		de de alemana	······································				Secondary Indicators (minim	um of two required)
	•	e is required; check all					Surface Soil Cracks (B6)	
Surface Wat			X Water-Staine		9)		Drainage Patterns (B10)	
X High Water	` '		Aquatic Faur				Moss Trim Lines (B16)	C3/
X Saturation (A	•		<ul><li>Marl Deposit</li><li>X Hydrogen St</li></ul>		241	_	Dry-Season Water Table ( Crayfish Burrows (C8)	G2)
Water Marks Sediment De				,	ارد) n Living Roots (C3)		Crayfish Burrows (C8) Saturation Visible on Aeria	I Imagary (C9)
Drift Deposit				Reduced Iror			Stunted or Stressed Plants	
Algal Mat or	, ,				Tilled Soils (C6)		Geomorphic Position (D2)	,
Iron Deposits			Thin Muck S				Shallow Aquitard (D3)	
	√isible on Aerial Im	nagery (B7)	_	ain in Remarks	s)		Microtopographic Relief (D	94)
	egetated Concave		_		,	_	FAC-Neutral Test (D5)	,
Field Observatio	ons:							
Surface Water Pro	esent?	Yes No	X Depth (inch	ies):				
Water Table Pres	ent?	Yes <b>X</b> No			w	etland Hydro	ology Present? Yes _	X No
Saturation Preser (includes capillary		Yes <b>X</b> No	Depth (inch	es): 1				
		gauge, monitoring well,	, aerial photos, pr	evious inspec	ctions), if available:			
	•		· · · · · · · · · · · · · · · · · · ·		•			
Remarks:								

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant   Species?	ndicator Status	Dominance Test workshee	t:	
1. Salix nigra	15	Yes	OBL	Number of Dominant Specie That Are OBL, FACW, or FA		
2				Total Number of Dominant		
3				Species Across All Strata:		
4				Percent of Dominant Species That Are OBL, FACW, or FA		
5				mat Are OBL, FACW, or FA	C: 100 (A/B)	
6				Prevalence Index workshe		
7		= Total Cover		Total % Cover of:  OBL species 35	Multiply by: x 1 = 35	
Sapling/Shrub Stratum (Plot size: 15 ft.)		Total Gover		` <del></del>	$x = \frac{220}{2}$	
Cornus amomum	25	Yes	FACW	· ·	x 3 = 0	
2. Salix nigra			OBL		x 4 = 0	
3.					x 5 = 0	
4				Column Totals: 145	(A) <u>255</u> (B)	
5.				Prevalence Index = B/	A = 1.75	
6				Hydrophytic Vegetation Inc	dicators:	
7.				X 1 - Rapid Test for Hydro		
				X 2 - Dominance Test is >		
Herb Stratum (Plot size: 5 ft.)	35	= Total Cover		X 3 - Prevalence Index is 4 - Morphological Adap	≤3.0 <sup>·</sup> tations <sup>1</sup> (Provide supporting	
Onoclea sensibilis	30	Yes	FACW		on a separate sheet)	
Symphyotrichum novae-angliae		Yes	FACW	Problematic Hydrophyti	c Vegetation <sup>1</sup> (Explain)	
3. Phalaris arundinacea			FACW	<sup>1</sup> Indicators of hydric soil and		
4. Symplocarpus foetidus			OBL	be present, unless disturbed or problematic.		
5.				Definitions of Vegetation S	trata:	
6.				Tree – Woody plants 3 in. (7	.6 cm) or more in diameter	
7				at breast height (DBH), rega	rdless of height.	
8.				Sapling/shrub – Woody pla	nts less than 3 in. DBH	
9.				and greater than or equal to	3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-		
11				size, and woody plants less		
12.				Woody vines – All woody vineight.	nes greater than 3.28 ft in	
	95	= Total Cover				
Woody Vine Stratum (Plot size: 30 ft.)						
1						
2				Hydrophytic Vegetation		
3				Present? Yes	_X No	
4.						
	0	= Total Cove	•			
Remarks: (Include photo numbers here or on a separate sheet.)						

SOIL Sampling Point: DP-W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) % Texture Remarks (inches) 0-20 10YR 2/1 100 Clay Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland W- View facing North



Wetland W- Soils

### **SITE PHOTOGRAPHS**

State   NY	Champlain Huds	son Express		City/County:	: Albany	Sampling Date:	November 15, 2021		
Subsection   Content   C	CHA			State:	NY	Sampling Point:	DP-W-Upland		
Subsection   Content   C	Tristen Peterso	n		Section, Tow	nship, Range: Slingerla	and			
Solition   Community   Commu						Convex	Slone (%): 3		
Soli Map Unit Name					,		<del></del>		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation Soil or Hydrology Significantly disturbed? Are Vegetation Soil or Hydrology Are Vegetation Are Vegeta	•				Long: -/3.9100		·		
Are Vegetation, Soil, or Hydrology	e: <u>Fx - Fluvaqu</u>	ients-Udifluvents co	omplex, frequently	flooded		NWI classification: Not N	Mapped		
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?	logic conditions or	n the site typical for	r this time of year?	? Yes	X No (If r	no, explain in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Yes	, Soil	, or Hydrology	signific	antly disturbed?	Are "Normal Circ	umstances" present?	Yes <b>X</b> No		
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes No X Wetland Hydrology Present? Wetland Hydrology Indicators: Upland Data Point for FA-W, located along a hillslope within a wooded area  **Becondary Indicators (minimum of two required)**  **Primary Indicators (minimum of one is required; check all that apply) Saturation (A3) Mart Deposits (B1) Saturation (A3) Mart Deposits (B1) Sediment Deposits (B2) Oxidized (B1) Drift Deposits (B2) Oxidized (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Spansely Vegetated Concave Surface (B3) In Deposits (B5) In Deposits (B5) In Deposits (B5) In Deposits (B6) Fried Observations: Spansely Vegetated Concave Surface (B3) Spansely Vegetated Concave Surface (B4) Spansely	, Soil	, or Hydrology	naturall	ly problematic?	(If needed, explai	n any answers in Remarks.)			
No	ARY OF FIND	INGS – Attacl	ı site map sh	owing sampl	ling point locations, t	transects, important t	features, etc.		
Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID:    Primary Indicators (minimum of one is required; check all that apply)   Surface Soil Cracks (86)   Drainage Patterns (810)   High Water Table (A2)   Aquatic Fauna (813)   Moss Trim Lines (816)   Dray-Season Water Table (A2)   High Water Marks (B1)   Hydrogen Sulfide Odor (C1)   Crayfish Burrows (C8)   Saturation (A3)   Hydrogen Sulfide Odor (C1)   Crayfish Burrows (C8)   Saturation (A3)   Hydrogen Sulfide Odor (C1)   Crayfish Burrows (C8)   Saturation (Natible on Aerial Imagery (C9)   Presence of Reduced Iron (C4)   Stunted or Stressed Plants (D1)   Algal Mat or Crust (B4)   Recent Iron Reduction in Tilled Soils (C6)   Geomorphic Position (D2)   Inundation Visible on Aerial Imagery (B8)   Other (Explain in Remarks)   Microtopographic Relief (D4)   FAC-Neutral Test (D5)	etation Present?	Yes	No _	X I!	s the Sampled Area				
Remarks: (Explain alternative procedures here or in a separate report.) Upland Data Point for FA-W, located along a hillslope within a wooded area  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Saturation (A3)  Marl Deposits (B15)  Dy-Season Water Table (C2)  Water Marks (B1)  Algal Mat or Crust (B4)  Agal Mat or Crust (B4)  Agal Mat or Crust (B4)  Agal Mat or Crust (B4)  From Deposits (B5)  Direction (B3)  Algal Mat or Crust (B4)  Agal Mat or Crust (B4)  A	ent?	Yes	No	x	vithin a Wetland?	Yes No	X		
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soli Cracks (86)  Surface Vater (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Solis (C6)  Ton Deposits (B5)  Recent Iron Reduction in Tilled Solis (C6)  Recent Iron Reduction in Tilled Solis (C6)  Recent Iron Reduction in Tilled Solis (C7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  FIGURE Observations:  Surface Water Present?  Yes No X Depth (inches):  Water Table (Present?  Yes No X Depth (inches):  Wetland Hydrology Present?  Yes No X Depth (inches):	gy Present?	Yes	No	X	f yes, optional Wetland Site I	D:			
Primary Indicators (minimum of one is required; check all that apply)   Surface Soil Cracks (B6)									
Surface Water (A1)									
Surface Water (A1)					<del>_</del>	· · ·	num of two required)		
High Water Table (A2) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Proposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):  Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard on Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	s (minimum of one	e is required; check	( all that apply)			Surface Soil Cracks (B6)			
Saturation (A3)	ter (A1)					_ Drainage Patterns (B10)			
Water Marks (B1)	Table (A2)				_	Moss Trim Lines (B16)			
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  X  Depth (inches):  Drift Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  (includes capillary fringe)	, ,		·		_		(C2)		
Drift Deposits (B3)				,	· —				
Algal Mat or Crust (B4)					<del>_</del>				
Iron Deposits (B5)	, ,			<u> </u>					
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe)  Other (Explain in Remarks)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No X  Depth (inches):	• •		_		<u> </u>				
Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)  Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	• ,	(DZ)			<u> </u>				
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe)			Other (Ex	piain in Remarks	<del>_</del>		D4)		
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes No X  Wetland Hydrology Present? Yes No X  Wetland Hydrology Present? Yes No X		Surface (Bo)			<del></del>				
Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Present? Yes Depth (inches): (includes capillary fringe)		Vaa Na	Y Donth (ir	achoc):					
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	tecent?		Debit (ii						
(includes capillary fringe)				ochee).	Wotland Hy	drology Procent? Voc	No. Y		
	sent?	Yes No	X Depth (in		Wetland Hy	drology Present? Yes	No <u>X</u>		
	sent? :nt?	Yes No	X Depth (in		Wetland Hy	drology Present? Yes	No <u>X</u>		
	sent? nt? y fringe)	Yes No Yes No	X Depth (in X Depth (in	nches):	·	drology Present? Yes	No <u>X</u>		
Water Table Pres Saturation Preser (includes capillary		Tristen Peterson to terrace, etc.):  MLRA): e: Fx - Fluvaque clogic conditions on the present?  ARY OF FIND  Retation Present?  alternative procection for FA-W, location for FA-W, loca	Tristen Peterson  the terrace, etc.): Hillslope  MLRA): LRR R  e: Fx - Fluvaquents-Udifluvents or elogic conditions on the site typical for the site typical form.  Soil, or Hydrology  ARY OF FINDINGS — Attack  etation Present? Yes gy Present? Yes gy Present? Yes alternative procedures here or in a soint for FA-W, located along a hill for FA-W, located along a hil	Tristen Peterson  the terrace, etc.): Hillslope  MLRA): LRR R  E: Fx - Fluvaquents-Udifluvents complex, frequently slogic conditions on the site typical for this time of years and the site typical for this time of years and the site typical for this time of years and the site typical for this time of years and the site map shows a signification and the site map shows and the site map sho	Tristen Peterson Section, Tow.  , terrace, etc.): Hillslope Local relief (c)  MLRA): LRR R Lat: 42.632953°N  e: Fx - Fluvaquents-Udifluvents complex, frequently flooded  logic conditions on the site typical for this time of year? Yes , Soil, or Hydrology significantly disturbed? , Soil, or Hydrology significantly problematic?  ARY OF FINDINGS — Attach site map showing sample elation Present? Yes No X Is	Tristen Peterson  Section, Township, Range: Slingerla , terrace, etc.): Hillslope  Local relief (concave, convex, none):  MLRA): LRR R  Lat: 42.632953*N  Long: -73.9160  ere Fx - Fluvaquents-Udifluvents complex, frequently flooded  logic conditions on the site typical for this time of year? Yes , Soil, or Hydrology significantly disturbed? , Soil, or Hydrology naturally problematic?  ARY OF FINDINGS – Attach site map showing sampling point locations, to the state of t	Tristen Peterson Section, Township, Range: Slingerland  I, terrace, etc.): Hillstope Local relief (concave, convex, none): Convex  MLRAJ: LRR Lat: 42.632953*N Long: -73.916089*W  e: Fx - Fluvaquents-Udifluvents complex, frequently flooded NVII classification: Not Not logic conditions on the site typical for this time of year? Yes  X No (If no, explain in Remarks.)  Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present?  Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  ARY OF FINDINGS – Attach site map showing sampling point locations, transects, important of the station Present?  Yes No X Is the Sampled Area within a Wetland?  Yes No X If yes, optional Wetland Site ID:  alternative procedures here or in a separate report.)  pint for FA-W, located along a hillslope within a wooded area  Day Indicators:  S (minimum of one is required; check all that apply) Surface Soil Cracks (B6)  A2) Aquatic Fauna (B13) Moss Trim Lines (B16)  A3) Marl Deposits (B15) Dry-Season Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)  A3) Marl Deposits (B15) Dry-Season Water Table (B1) Crayfish Burrows (C8)  s (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  s (B1) Presence of Reduced Iron (C4) Stunted or Stressed Plant (B18)  Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Shallow Aquitard (D3)  // Jisible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (I)  getated Concave Surface (B8) FAC-Neutral Test (D5)		

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Pinus strobus	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)	
Quercus ellipsoidalis		Yes	UPL		
3. Acer saccharum	15		FACU	Total Number of Dominant Species Across All Strata: 5 (B)	
4 Fagus grandifolia	10	No	FACU	Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 0 (A/I	B)
6					
				Prevalence Index worksheet:  Total % Cover of: Multiply by:	
7		= Total Cover		OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0 x 2 = 0	
4 5 86 11	10	Yes	FACU	FAC species 0 x3 = 0	
		Tes	FACO	FACU species 65 x 4 = 260	
				UPL species <u>15</u> x 5 = <u>75</u>	
3				Column Totals: <u>80</u> (A) <u>335</u> (E	3)
4				Prevalence Index = B/A = 4.18	
5				Prevalence Index = B/A = 4.18	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%	
	10	= Total Cover		3 - Prevalence Index is ≤3.01	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
Acer saccharum	10	Yes	FACU	data in Remarks or on a separate sheet)	
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
				be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
6				at breast height (DBH), regardless of height.	
7				Sapling/shrub – Woody plants less than 3 in. DBH	
o				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless of	
10				size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
_	10	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2.				Hydrophytic	
3				Vegetation Present? Yes NoX	
				, , , , , , , , , , , , , , , , , , ,	
4.					
	0	= Total Cove	1	<u> </u>	
Remarks: (Include photo numbers here or on a separate sheet.)  No hydrophytic vegetation found at data point					

SOIL Sampling Point: DP-W-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) % Remarks (inches) Texture 10YR 4/3 100 Silty Clay Loam 7.5YR 5/8 10YR 5/4 5-12 90 Silty Clay Loam 10YR 5/6 7.5YR Silty Clay Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils present at data point



**Upland W- View facing North** 



**Upland W- Soils** 

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CS-13
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-37-18.46N	Long: 73-54-28.68W Datum: WGS 84
Soil Map Unit Name: RhA - Rhinebeck silty clay loam	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problema	
<b>SUMMARY OF FINDINGS – Attach site map showing sam</b>	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CS-13
Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Red Maple-Hardwood Swamp.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (i	
Sediment Deposits (B2) Oxidized Rhizospheres of Presence of Reduced Iron	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	:
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks:	

### **VEGETATION** – Use scientific names of plants.

Trop Stratum (Diet size: 20'	Absolute % Cover	Dominant	Indicator	Dominana Tast waykahaati			
Tree Stratum (Plot size: 30' )		Species?	Status	Dominance Test worksheet:			
1. Acer rubrum	50 25	Yes	FACW	Number of Dominant Species			
2. Quercus bicolor	15	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)			
3. Betula populifolia		No No	FAC	Total Number of Dominant			
4. Populus deltoides	5	No	<u>FAC</u>	Species Across All Strata: 8 (B)			
5.				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC:87.5%(A/B)  Prevalence Index worksheet:			
··	95	=Total Cover					
Sapling/Shrub Stratum (Plot size: 15' )		- Total Cover		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0			
1. Ilex verticillata	10	Yes	FACW	FACW species 100 x 2 = 200			
Quercus bicolor	5	Yes	FACW	FAC species 80 x 3 = 240			
Ulmus americana	5	Yes	FACW	FACU species 20 x 4 = 80			
4. Lonicera morrowii	5	Yes	FACU	UPL species 0 x 5 = 0			
5. Acer rubrum	5	Yes	FAC	Column Totals: 200 (A) 520 (B)			
6.			<u> </u>	Prevalence Index = B/A = 2.60			
7.				Hydrophytic Vegetation Indicators:			
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Onoclea sensibilis	45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago gigantea	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Lonicera morrowii	10	No	FACU	data in Remarks or on a separate sheet)			
4. Rosa multiflora	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cornus racemosa	5	No	FAC				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.				_			
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10.							
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.				Harb. All barbassaya (non woody) planta regardless			
	 75	=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')		•		Washings All washings greater than 2.29 ft in			
1				Woody vines – All woody vines greater than 3.28 ft in height.			
2.							
3.				Hydrophytic			
4.				Vegetation Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separate or	rate sheet.)			1			
,	,						

Sampling Point: WET CS-13

SOIL Sampling Point WET CS-13

	ription: (Describe t	o the de				ator or c	onfirm the absence of	f indicators.)
Depth	Matrix			Featur		. 2	<del>-</del> .	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1	90	10YR 4/2	10	<u> </u>	<u>M</u>	Loamy/Clayey	Faint redox concentrations
10-16	2.5Y 3/1	<u>75</u>	10YR 2/1	5	C	<u>M</u>	Mucky Loam/Clay	Faint redox concentrations
			10YR 5/6	_20_	<u>C</u>	M		Prominent redox concentrations
	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil					(00)			or Problematic Hydric Soils <sup>3</sup> :
— Histosol			Polyvalue Below		ce (S8) (	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2)		Thin Dark Surfa		(I RR R	MI RA		rairie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky N			-		k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			. ,		iganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		X Depleted Matrix	(F3)			Piedmon	it Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
	edox (S5)		Redox Depress	`	8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	R K, L)			Other (E.	xplain in Remarks)
— Dark Sui	face (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and v	vetland hydrology mu	st be pr	esent, ui	nless dist	turbed or problematic.	
	_ayer (if observed):						İ	
Type:								
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No
Remarks:							•	



Wetland CS at flag CS-13 - View facing northeast.



Wetland CS-13 - Soils

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21
Applicant/Owner: TDI	State: NY Sampling Point: UPL CS-13
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
- ' -	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-37-18.08N	Long: 73-54-29.80W Datum: WGS 84
Soil Map Unit Name: RhA - Rhinebeck silty clay loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly distur-	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Lhudwashutia Vagatatian Brasanta Vag	In the Complet Area
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No X  Yes No X	Is the Sampled Area within a Wetland? Yes No _X_
Wetland Hydrology Present?  Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	in you, optional troduits one is:
Railroad embankment	
Rain dad embankment	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	<del></del>
Sediment Deposits (B2)  Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3)  Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark Curries (CF))	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No _X Depth (inches)	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
	evious inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
	evious inspections), if available:

### **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus strobus	10	Yes	<u>FACU</u>	Number of Dominant Species
2. Rhamnus cathartica	5	Yes	<u>FAC</u>	That Are OBL, FACW, or FAC:3 (A)
3.			UPL	Total Number of Dominant
4				Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 37.5% (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1. Cornus amomum	5	Yes	FACW	FACW species 5 x 2 = 10
2. Lonicera morrowii	5	Yes	FACU	FAC species 13 x 3 = 39
3. Rubus allegheniensis	2	No	FACU	FACU species 29 x 4 = 116
4.				UPL species 12 x 5 = 60
5.				Column Totals: 59 (A) 225 (B)
6.				Prevalence Index = B/A = 3.81
7.				Hydrophytic Vegetation Indicators:
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Solidago rugosa	8	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	5			data in Remarks or on a separate sheet)
3. Lonicera morrowii		Yes	FACU	
4. Solidago canadensis	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Euonymus alatus	2	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6		· <del></del>		be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9		. <u></u>		diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	22	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	10	Yes	UPL	height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)	•		
The manual (manual prison manual prison of the adaption	,			

Sampling Point: UPL CS-13

SOIL Sampling Point UPL CS-13

		o the dep				tor or co	nfirm the absence of indi	cators.)	
Depth (inches)	Matrix	0/		x Featur		Loc <sup>2</sup>	Taxehuma	Damer	den.
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> 	Type <sup>1</sup>		Texture	Remar	KS
				<u> </u>					
		_			_				
1 <sub>Tunor</sub> C=Co			-Dadwaad Matrix N		——	Croine	2l acetion, DI =Da	ra Linina M=Ma	
	ncentration, D=Deple	elion, Rivi	-Reduced Matrix, N	/IS-IVIAS	keu Sand	Grains.	<sup>2</sup> Location: PL=Pol		
Black His Hydroger Stratified Depleted Thick Dan Sandy Mo Sandy Gl Sandy Re Stripped I Dark Surf	A1) pedon (A2) tic (A3) sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetatic ayer (if observed): Ballas	on and w	Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) ace (S9) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (Fi R K, L)	(LRR R, 611) (LRF (F1) (LRF F2) F6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Muck (A Coast Prairie I 49B) 5 cm Mucky P Polyvalue Beld Thin Dark Sur Iron-Mangane: Piedmont Floc Mesic Spodic Red Parent M: Very Shallow I Other (Explain	10) (LRR K, L, I Redox (A16) (LF Peat or Peat (S3) bw Surface (S8) face (S9) (LRR se Masses (F12 bdplain Soils (F1 (TA6) (MLRA 14 aterial (F21) Dark Surface (F3	MLRA 149B) RR K, L, R) (LRR K, L, R) (LRR K, L) K, L) ) (LRR K, L, R) 9) (MLRA 149B) 44A, 145, 149B)
Depth (in	ches):	0					Hydric Soil Present?	Yes	NoX
Remarks: No soils were	collected due to rest	trictive la	yer of railroad ballas	at the	surface.				



Upland CS at flag CS-13 - View facing southwest.

**SITE PHOTOGRAPHS** 

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21						
Applicant/Owner: TDI	State: NY Sampling Point: WET CS-45						
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): Depression Local r	Local relief (concave, convex, none): Concave Slope %:						
Subregion (LRR or MLRA): LRR R Lat: 42-37-33.61N	Long: _73-54-40.10W						
Soil Map Unit Name: Ug - Udorthents, loamy	NWI classification: PEM2						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly disturb	<del></del>						
Are Vegetation, Soil, or Hydrologynaturally problema							
SUMMARY OF FINDINGS – Attach site map showing samp							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near Flag CS-45						
Palustrine Emergent Marsh. Shallow Emergent Marsh.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) Water-Stained Leaves (B							
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (C							
Sediment Deposits (B2)  Oxidized Rhizospheres o							
Drift Deposits (B3) Presence of Reduced Iro							
Algal Mat or Crust (B4)  — Recent Iron Reduction in							
Iron Deposits (B5)  Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark							
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (inches):	3						
Water Table Present? Yes X No Depth (inches):	12						
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:						
Remarks:							

### **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				That Ale OBL, FACW, OF FAC.
4.				Total Number of Dominant Species Across All Strata: 3 (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:15')				OBL species50 x 1 =50
1.				FACW species 15 x 2 = 30
2.				FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 10 x 5 = 50
5.				Column Totals: 80 (A) 145 (B)
6.				Prevalence Index = B/A = 1.81
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Bidens frondosa	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex vulpinoidea	15	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	15	Yes	OBL	data in Remarks or on a separate sheet)
4. Leonurus cardiaca	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Alisma triviale	10	No	OBL	
6. Scirpus cyperinus	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Typha angustifolia	5	No	OBL	Definitions of Vegetation Strata:
8. Setaria pumila	5	No No	FAC	
9.		110	<u> </u>	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.
11.				and greater than or equal to 3.20 it (1 iii) tall.
12		=Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Manda Vine Otrature (Diet sine)	80	= rotal Cover		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?
		=Total Cover		
Remarks: (Include photo numbers here or on a separate or	rate sheet.)			

Sampling Point: WET CS-45

SOIL Sampling Point WET CS-45

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>ıment tl</b> x Featur		ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 2/1	55	5Y 4/1	40	С	M	Loamy/Clayey	Prominent redox concentrations
			2.5Y 6/4	5	С	M		Prominent redox concentrations
7-16	10YR 2/1	90	10YR 4/4	10	<u>C</u>	M	Loamy/Clayey	Distinct redox concentrations
1							2	
	ncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	1S=Mas	ked Sand	Grains.		_=Pore Lining, M=Matrix. r Problematic Hydric Soils <sup>3</sup> :
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ce (S8) (	LRR R.		ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		00 (00) (	Littit it,		airie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R	, MLRA		cky Peat or Peat (S3) (LRR K, L, R)
—Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LRI</b>	R K, L)	Polyva <b>l</b> ue	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	ganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		X Redox Dark Su	•	•			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					nt Material (F21) Ilow Dark Surface (F22)
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LR	•	0)			oplain in Remarks)
	face (S7)		Warr (1 10) (ER	· · · · · · · · · · · · · · · · · · ·				pian in Nemano)
	( ,							
<sup>3</sup> Indicators of	hydrophytic vegetation	on and v	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	.ayer (if observed):							
Type: _								
Depth (in	ches):						Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:								



Wetland CS at flag CS-45 - View facing southeast.



Wetland CS-45 - Soils

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21						
Applicant/Owner: TDI	State: NY Sampling Point: UPL CS-45						
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:						
Landform (hillside, terrace, etc.): Hillslope Local	Local relief (concave, convex, none): Concave Slope %: 5						
Subregion (LRR or MLRA): LRR R Lat: 42-37-32.95N	Long: 73-54-40.17W Datum: WGS 84						
Soil Map Unit Name: Ug - Udorthents, loamy	NWI classification: NA						
Are climatic / hydrologic conditions on the site typical for this time of year?							
Are Vegetation, Soil, or Hydrologysignificantly dist	<del></del>						
Are Vegetation, Soil, or Hydrology naturally probler							
<del></del>	impling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No _ X						
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:						
Successional Northern Hardwood Forest.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	s (B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odo	<u> </u>						
<del></del>	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced							
Algal Mat or Crust (B4)  Recent Iron Reduction	· · · · · · · · · · · · · · · · · · ·						
Iron Deposits (B5) —Thin Muck Surface (C	<u> </u>						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches	s):						
Water Table Present? Yes No _X Depth (inches	·s):						
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	orevious inspections), if available:						
Remarks:							

#### **VEGETATION** – Use scientific names of plants.

Two Stratum (Dietains: 201	Absolute	Dominant Species?	Indicator	Dominanaa Taat waykabaatu
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer negundo	35	Yes	FAC	Number of Dominant Species
2. Pinus strobus	35	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
3.			UPL	Total Number of Dominant
4				Species Across All Strata: 12 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x1 =0
1. Acer platanoides	5	Yes	UPL	FACW species 0 x 2 = 0
2. Rhamnus cathartica	5	Yes	FAC	FAC species55 x 3 =165
3. Rhus typhina	5	Yes	UPL	FACU species 77 x 4 = 308
4. Prunus pensylvanica	5	Yes	FACU	UPL species 15 x 5 = 75
5. Rubus allegheniensis	5	Yes	FACU	Column Totals: 147 (A) 548 (B)
6.				Prevalence Index = B/A = 3.73
7.		-		Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%
Rubus allegheniensis	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solidago canadensis	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	10			data in Remarks or on a separate sheet)
3. Thelypteris noveboracensis		Yes	FAC	Durch laws of the University of the Manufacture 1 (Familian)
4. Poa pratensis	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Geum canadense	5	No	<u>FAC</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Ostrya virginiana	2	No	<u>FACU</u>	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9		. <u> </u>		diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	42	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	5	Yes	UPL	height.
2. Vitis aestivalis	5	Yes	FACU	
3.				Hydrophytic
4.				Vegetation Present? Yes No _X
·	10	=Total Cover		100 <u>X</u>
Demonstrate (Include whate numbers have as an analysis		•		
Remarks: (Include photo numbers here or on a separ	rate sneet.)			

Sampling Point: UPL CS-45

SOIL Sampling Point UPL CS-45

Profile Descripe	ription: (Describe t Matrix	o the de	-	u <mark>ment t</mark> l x Featur		ator or co	onfirm the absence of indic	cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	S
0-16	10YR 2/1	100					Loamy/Clayey		
16-20	10YR 3/1	80	10YR 2/1	20		<u></u>	Loamy/Clayey	Faint redox cond	entrations
					<u> </u>				
	<del></del>								
									_
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Mati	rix.
Hydric Soil I							Indicators for Pro	=	
Histosol (			Polyvalue Belo		ce (S8) (	LRR R,		10) (LRR K, L, M	
	ipedon (A2)		MLRA 149B	•	\	MIDA		Redox (A16) ( <b>LR</b>	•
Black His	n Sulfide (A4)		Thin Dark Surf High Chroma S				<u> </u>	eat or Peat (S3) ow Surface (S8) (	
	Layers (A5)		Loamy Mucky			-	<del></del>	ace (S9) ( <b>LRR K</b>	
	Below Dark Surface	(A11)	Loamy Gleyed			, = ,		se Masses (F12)	
	rk Surface (A12)	,	Depleted Matri		,			dplain Soils (F19	
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	<del>-</del> 6)		Mesic Spodic	(TA6) ( <b>MLRA 14</b>	4A, 145, 149B)
Sandy Gl	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Ma		
	edox (S5)		Redox Depress		8)			Dark Surface (F2	2)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain	in Remarks)	
Dark Sur	tace (S7)								
<sup>3</sup> Indicators of	hvdrophytic vegetati	on and w	vetland hydrology mu	ust be ni	resent. ui	nless dist	urbed or problematic.		
	.ayer (if observed):			р.			and an problem and		
Type:									
Depth (in	ches):						Hydric Soil Present?	Yes	No X
Remarks:									



Upland CS at flag CS-45 - View facing west.



**Upland CS-45 - Soils** 

## SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CR-14 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
- 17	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-37-00N	Long: 73-54-16W Datum: WGS84
Soil Map Unit Name: Wayland soils complex (We)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Common reed marsh.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  X Water-Stained Leaves (B	<del></del>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres o	
Prift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  — Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	
Water Table Present? Yes x No Depth (inches):	12
Saturation Present? Yes No _x Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
remains.	

#### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	15	Yes	FACW	
2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:66.7%(A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x1 =0
1. Lonicera morrowii	10	Yes	FACU	FACW species 115 x 2 = 230
2.				FAC species5 x 3 =15
3.				FACU species15 x 4 =60
4.		· <u></u>		UPL species 0 x 5 = 0
5.				Column Totals: 135 (A) 305 (B)
<u> </u>				Prevalence Index = B/A = 2.26
7				Hydrophytic Vegetation Indicators:
<i>i</i>	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		- Total Gover		X 2 - Dominance Test is >50%
	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Phragmites australis				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Acer rubrum	5	. <u>No</u>	FAC	data in Remarks or on a separate sheet)
3. Lonicera morrowii	5	No	<u>FACU</u>	
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Trans Manda charta O in 47 O and a man in
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	110	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Pomarke: (Include photo numbers here or on a sense	rate sheet )			
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: CR-14 Wet

SOIL Sampling Point CR-14 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ment ti</b> Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 2/1	100					Loamy/Clayey	
13-20	10YR 4/1	90	5YR 4/6	10		<u>—</u>	Loamy/Clayey	Prominent redox concentrations
13-20	10YR 4/1	90	5YK 4/0				Loamy/Clayey	Prominent redox concentrations
								_
1							2	
'Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black Hi Hydroge Stratified Depleted X Thick Da Sandy M Sandy G Stripped Dark Sun  3Indicators of	(A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) ducky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6) face (S7) f hydrophytic vegetati ayer (if observed):	on and w	Polyvalue Belor MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky N Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	ace (S9) ands (S dineral of Matrix ( (F3) rface (F Surface sions (F6 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu Coast Pi 49B) 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Mesic Si Red Pare Very Sha	rairie Redox (A16) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) rairie Redox (A16) (LRR K, L, R) rairie Redox (S3) (LRR K, L, R) re Below Surface (S8) (LRR K, L) re Surface (S9) (LRR K, L) re aganese Masses (F12) (LRR K, L, R) re Floodplain Soils (F19) (MLRA 149B) redoic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) reallow Dark Surface (F22) replain in Remarks)
Type: Depth (ir	none	=	<u> </u>				Hydric Soil Preser	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland CR at flag CR-14 (PEM) - View facing northwest.



Wetland CR-14 (PEM) - Soils

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21					
Applicant/Owner: TDI	State: NY Sampling Point: CR-14 Wet					
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:					
Landform (hillside, terrace, etc.): flat Local	relief (concave, convex, none): none Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 42-37-00N	Long: 73-54-16W Datum: WGS 84					
Soil Map Unit Name: Wayland soils complex (We)	NWI classification: PFO					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>					
Are Vegetation , Soil , or Hydrology naturally problems	<del></del> _					
SUMMARY OF FINDINGS – Attach site map showing sam						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) X Water-Stained Leaves (	Surface Soil Cracks (B6)  (B9) Drainage Patterns (B10)					
X High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3)  Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)  Hydrogen Sulfide Odor						
Sediment Deposits (B2)  Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·					
Drift Deposits (B3)  Presence of Reduced Ir	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)	X Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	rks) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _x Depth (inches)	:					
Water Table Present? Yes x No Depth (inches)	: <u>6</u>					
Saturation Present? Yes x No Depth (inches)	:4 Wetland Hydrology Present? YesX No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						
Tremano.						

#### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	55	Yes	FACW	
Rhamnus cathartica	35	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 75.0% (A/B)
7				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lonicera morrowii	15	Yes	<u>FACU</u>	FACW species 55 x 2 = 110
2. Rhamnus cathartica	10	Yes	<u>FAC</u>	FAC species45 x 3 =135
3				FACU species17 x 4 =68
4				UPL species0 x 5 =0
5				Column Totals: 117 (A) 313 (B)
6				Prevalence Index = B/A =2.68
7		·		Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lonicera morrowii	2	No	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in
10.				diameter at breast height (DBH), regardless of height.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	2	=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.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
·		=Total Cover		· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a sepa	rate sheet )			
Tremains. (include prioto numbers here or on a sepa	iate sileet.)			

Sampling Point: CR-14 Wet

SOIL Sampling Point CR-14 Wet

		o the de				ator or co	onfirm the absence of	f indicators.)
Depth	Matrix			x Featur		12	T 4	Demondes
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	_100_	-				Loamy/Clayey	
6-12	10YR 5/1	_60_	10YR 5/8	_40_	C	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion RN		 IS=Mas	ked Sand	Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		J. 1011, 1 (1)	Troduced Matrix, IV	10 11100	nou ounc	a Oranio.		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		ick (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B					rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mu	icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LRI</b>	R K, L)	Polyva <b>l</b> u	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		X Depleted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su	•	•			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark					ent Material (F21)
	Redox (S5)		Redox Depress	•	8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (E	xplain in Remarks)
— Dark Su	rface (S7)							
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and v	vetland hydrology mu	ist he nr	esent III	nless disti	urbed or problematic	
	Layer (if observed):	on and v	votaria riyarology me	ot bo pi	obolit, di	noos dist	dibod of problematic.	
Type:	rock	(						
Depth (in	nches):	12					Hydric Soil Preser	nt? Yes X No
Remarks:								
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs	usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	



Wetland CR at flag CR-14 (PFO) - View facing south.



Wetland CR-14 (PFO) - Soils

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CR-14 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
- ''	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-37-00N	Long: 73-54-16W Datum: WGS 84
Soil Map Unit Name: Wayland soils complex (We)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	<u> </u>
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Successional old field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· , , , , , , , , , , , , , , , , , , ,
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	. , , , ,
Iron Deposits (B5)Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	: <u></u> _
Water Table Present? Yes No x Depth (inches):	:
Saturation Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Tonano.	

% Cover 15	Species? Yes	FAC	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)  Total Number of Dominant
			That Are OBL, FACW, or FAC:1 (A)  Total Number of Dominant
			Total Number of Dominant
			Species Across All Strata:3(B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 33.3% (A/B
			Prevalence Index worksheet:
15	=Total Cover		Total % Cover of: Multiply by:
			OBL species0 x 1 =0
15	Yes	<u>FACU</u>	FACW species 0 x 2 = 0
			FAC species15 x 3 =45
			FACU species15 x 4 =60
			UPL species 95 x 5 = 475
			Column Totals: 125 (A) 580 (E
			Prevalence Index = B/A = 4.64
			Hydrophytic Vegetation Indicators:
15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
95	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
			4 - Morphological Adaptations <sup>1</sup> (Provide supporti
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			beninions of Vegetation Strata.
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
	· ——		diameter at breast height (DBH), regardless of height
	. ——		Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardles
95	= Fotal Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft
			height.
			Hydrophytic
			Vegetation
			Present?
	=Total Cover		
	15 95 95	15 Yes  15 =Total Cover  95 Yes  95 =Total Cover	15 Yes FACU  15 =Total Cover  95 Yes UPL  95 =Total Cover

SOIL Sampling Point CR-14 Upl

Profile Desc Depth	ription: (Describe to Matrix	o the de		u <mark>ment t</mark> l x Featur		tor or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
					-71			
0-20	10YR 2/2	100					Loamy/Clayey	with stone/fill material
1							2	
	oncentration, D=Deple	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil			Delianelina Bela	04-	(00) (			r Problematic Hydric Soils <sup>3</sup> :
— Histosol			Polyvalue Belo		ce (58) (I	LKK K,		ck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2)		MLRA 149B Thin Dark Surf		) (I PP P	MI DA 1		airie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S				· —	e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			-		Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			11, =/		ganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	(, ,	Depleted Matri		/			t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark	Surface	· (F7)			ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sha	llow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (Ex	plain in Remarks)
Dark Sui	face (S7)							
•								
	f hydrophytic vegetation	on and w	vetland hydrology mu	ust be pi	resent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type: -	none	•						
Depth (ir	nches):						Hydric Soil Presen	t? Yes No X
Remarks:								
								S Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/internet/F	SE_DUC	JUMENT	5/nrcs14.	2p2_051293.docx)	



Upland CR at flag CR-14 - View facing west.



**Upland CR-14 - Soils** 

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CQ-3- wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-36-42N	Long: 73-54-05W Datum: WGS 84
Soil Map Unit Name: Burdett silt loam (BuB)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Isolated common reed marsh.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (	
X High Water Table (A2) Aquatic Fauna (B13) Mark Bassite (B15)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15) Water Marks (B1) X Hydrogen Sulfide Odor (	C1) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)  Sediment Deposits (B2)  Oxidized Rhizospheres	<del></del>
Drift Deposits (B3)  Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remar	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches)	: 0.25
Water Table Present? Yes x No Depth (inches)	
Saturation Present? Yes x No Depth (inches)	:6 Wetland Hydrology Present? Yes _X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
No inlet or outlet.	

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species12 x1 =12
1. Populus tremuloides	10	Yes	FACU	FACW species 90 x 2 = 180
2				FAC species 2 x 3 = 6
3				FACU species10 x 4 =40
4				UPL species0 x 5 =0
5				Column Totals: 114 (A) 238 (B)
6				Prevalence Index = B/A =2.09
7				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Phragmites australis	85	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	12	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Prunella vulgaris	2	No	FAC	data in Remarks or on a separate sheet)
4. Lysimachia nummularia	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Trans Manda Sin (7.0 am) an manain
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	104	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
"	-	=Total Cover		100 <u>x</u> No
Remarks: (Include photo numbers here or on a separ	rata shoot \	Total Gover		
Tremaiks. (include prioto numbers here of our a separ	ate sneet.)			

Sampling Point:

CQ-3- wet

SOIL Sampling Point CQ-3- wet

Profile Descripe	ription: (Describe t Matrix	o the de		<b>ument t</b> x Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 4/1	100					Loamy/Clayey	
7-20	10YR 5/1	60	10YR 5/6	40	С	М	Loamy/Clayey	Prominent redox concentrations
7-20	1011(3/1		1011(3/0		<del>_</del>		Loamy/Clayey	Tromment redox concentrations
¹Type: C=Co	oncentration, D=Deple		A-Peduced Matrix N	 20M-21	Led San		<sup>2</sup> l ocation: P	L=Pore Lining, M=Matrix.
Hydric Soil I	·	euon, Ki	-Reduced Matrix, IV	/IO-IVIAS	keu San	Giailis.		or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		ick (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		( ) (	,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1	1 <b>49B</b> ) 5 cm Mu	icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
X Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LR</b> I	₹ K, L)	Polyva <b>l</b> u	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		X Depleted Matri		-0.			nt Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark St	•	•			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4) edox (S5)		— Depleted Dark Redox Depress					ent Material (F21) allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	,	0)			explain in Remarks)
— Dark Sur				, _,				,
	, ,							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and v	vetland hydrology mu	ust be pi	resent, ui	nless dist	urbed or problematic.	
Restrictive L	.ayer (if observed):							
Type: _	none	<del>)</del>						
Depth (in	ches):						Hydric Soil Presei	nt? Yes <u>X</u> No
Remarks:								
								CS Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/internet/F	SE_DO	JUMENT	S/nrcs14	2p2_051293.docx)	



Wetland CQ at flag CQ-3 - View facing south.



Wetland CQ-3 - Soils

Phase 2

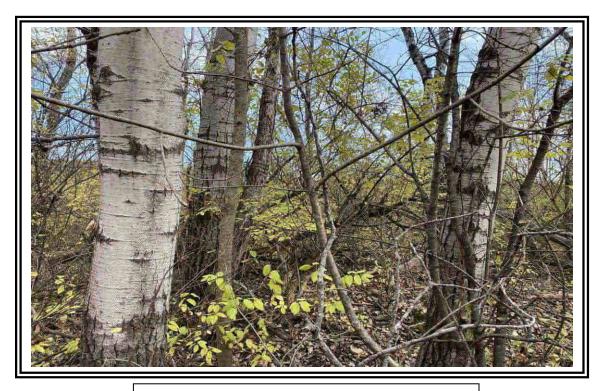
### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CQ-3- Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-36-42N	Long: 73-54-05W Datum: WGS 84
Soil Map Unit Name: Burdett silt loam (BuB)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Deciduous forested upland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Presence of Reduced Ir	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (CT)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Personal International In	
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches):	
Water Table Present? Yes No x Depth (inches)	
Saturation Present? Yes No _x Depth (inches). (includes capillary fringe)	:   Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe recorded bata (stream gauge, monitoring well, acrial priotos, pre	vious inspections), il avaliable.
Remarks:	

iron Stratum (Plat size: 201	Absolute	Dominant Species 2	Indicator	Dominanae Teet weeksheets
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Populus tremuloides	60	Yes	FACU	Number of Dominant Species
Prunus serotina	35	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
. Fraxinus americana	5	No	<u>FACU</u>	Total Number of Dominant
•				Species Across All Strata: 6 (B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 16.7% (A/B
·		. <u></u>		Prevalence Index worksheet:
	100	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15'	)			OBL species 0 x 1 = 0
Lonicera morrowii	30	Yes	<u>FACU</u>	FACW species 0 x 2 = 0
. Cornus racemosa		Yes	FAC_	FAC species 20 x 3 = 60
•				FACU species147 x 4 =588
•				UPL species0 x 5 =0
				Column Totals: 167 (A) 648 (B
<u></u>				Prevalence Index = B/A = 3.88
·				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Lonicera morrowii	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Rubus allegheniensis	2	. <u>No</u>	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
		· ——		
1				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
	12	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:30'	)			Woody vines – All woody vines greater than 3.28 ft in
. Vitis aestivalis	5	Yes	FACU	height.
				Hydrophytic
<b>.</b>				Vegetation Present? Yes No _X_
·	- <u></u> 5	=Total Cover		

SOIL Sampling Point CQ-3- Upl

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ument t</b> l x Featur		itor or co	onfirm the absence of inc	licators.)
(inches)	Color (moist)	%	Color (moist)	% T Catai	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1	100			-71		Loamy/Clayey	
10-20	10YR 4/3	100					Loamy/Clayey	
10-20	1011(4/3						Loamy/Olayey	_
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.
Hydric Soil I								roblematic Hydric Soils <sup>3</sup> :
— Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		) /I DD D	MI DA 1		Redox (A16) (LRR K, L, R)
— Black His	n Sulfide (A4)		Thin Dark Surf High Chroma S					Peat or Peat (S3) (LRR K, L, R) elow Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			-		urface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			. ,		ese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Flo	oodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark Su	•	•			c (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					Material (F21)
	edox (S5) Matrix (S6)		Marl (F10) (LR	•	8)			v Dark Surface (F22) in in Remarks)
	face (S7)		Mail (i 10) ( <b>LK</b>	.K K, ∟)			Other (Expla	iii iii Remarks)
	.200 (21)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	vetland hydrology mu	ust be pi	resent, ur	nless dist	urbed or problematic.	
Restrictive L	.ayer (if observed):							
Type: _	none	е						
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:								
	m is revised from No 2015 Errata. (http://w							rield Indicators of Hydric Soils,
version 7.0, 2	2015 Ellata. (IIIIp.//w	ww.iiics.	usua.gov/internet/1	3L_DO(	CONICIAL	3/11/05 14/	zpz_031293.d0cx)	



Upland CQ at flag CQ-3 - View facing east.



**Upland CQ-3 - Soils** 

# Phase 2

# SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21				
Applicant/Owner: TDI	State: NY Sampling Point: CP-8 wet				
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:				
Landform (hillside, terrace, etc.): flat Local r	relief (concave, convex, none): none Slope %: 0				
Subregion (LRR or MLRA): LRR R Lat: 42-36-41N	Long: 73-54-04W Datum: WGS 84				
Soil Map Unit Name: Rhinebeck silty clay locam (RhA)	NWI classification: PEM				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrology naturally problema					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:				
Cattail marsh at the data point. This wetland also has areas dominated by o	common reed and PSS areas dominated by grey dogwood.				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) Water-Stained Leaves (E					
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (	<del>_</del>				
Sediment Deposits (B2)  — Oxidized Rhizospheres of Padused Irrs	— · · · · —				
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations: Surface Water Present? Yes x No Depth (inches):	0.5				
Water Table Present? Yes x No Depth (inches): Saturation Present? Yes x No Depth (inches):					
(includes capillary fringe)	wettaild Hydrology Fresent: res_X_NO				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections). if available:				
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 93 x 1 = 93
1. Cornus racemosa	12	Yes	FAC	FACW species 10 x 2 = 20
2. Lonicera morrowii	 5	Yes	FACU	FAC species 27 x 3 = 81
3.				FACU species 5 x 4 = 20
4.				UPL species 0 x 5 = 0
6.				Prevalence Index = B/A = 1.59
7				Hydrophytic Vegetation Indicators:
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Typha latifolia	75	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	10	<u>No</u>	FACW	4 - Morphological Adaptations (Provide supporting
3. Equisetum arvense	15	No	FAC	data in Remarks or on a separate sheet)
4. Eutrochium maculatum	8	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lycopus americanus	2	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Lythrum salicaria	8	No	OBL	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Continued have been been then 2 in DDII
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	118	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic
1				Vegetation   Present?   Yes X No
4.		=Total Cover		
Pomorko: /Ingludo photo numbero boro or on a conse		10101 00101		
Remarks: (Include photo numbers here or on a separ	ate SHEEL)			

Sampling Point: CP-8 wet

SOIL Sampling Point CP-8 wet

Profile Desc Depth	ription: (Describe to Matrix	o the de		ment the Feature		ator or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0-6	10YR 2/1	100					Muck	
6-10	10YR 2/1	100					Loamy/Clayey	
10-20	10YR 4/1	95	10YR 4/6	<u> </u>		<u>—</u>	Loamy/Clayey Prominent redox concentration	ns
								_
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RN		 S=Mas¹	ked San	d Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belov	v Surfa	ce (S8) (	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B	)
Histic Ep	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)	
Black Hi	` '		Thin Dark Surfa					R)
	n Sulfide (A4)		— High Chroma S			-	Polyvalue Below Surface (S8) (LRR K, L)	
	Layers (A5)	/A11\	Loamy Clayed N			RK, L)	Thin Dark Surface (S9) (LRR K, L)	D/
	l Below Dark Surface ark Surface (A12)	(A11)	Loamy Gleyed I  X Depleted Matrix		F2)		Iron-Manganese Masses (F12) ( <b>LRR K</b> , L Piedmont Floodplain Soils (F19) ( <b>MLRA 1</b>	
	lucky Mineral (S1)		Redox Dark Sur		:6)		Mesic Spodic (TA6) (MLRA 144A, 145, 14	
	leyed Matrix (S4)		Depleted Dark S	•	•		Red Parent Material (F21)	,
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LRF</b>	R K, L)			Other (Explain in Remarks)	
Dark Sui	face (S7)							
3								
	r nydropnytic vegetation	on and v	vetland nydrology mu:	st be pr	esent, u	niess dist	turbed or problematic.	
Type:	-ayer (ii observed). none	<b>.</b>						
Depth (ir							Hydric Soil Present? Yes X No	
Remarks:							Total Committee Total To	_
	m is revised from Nor	thcentra	I and Northeast Region	onal Su	pplemen	t Version	2.0 to include the NRCS Field Indicators of Hydric Soils	i.
	2015 Errata. (http://w							,



Wetland CP at flag CP-8 - View facing east.



Wetland CP-8 - Soils

# Phase 2

# SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	 State: NY Sampling Point: CP-8 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none
Subregion (LRR or MLRA): LRR R Lat: 42-36-41N	Long: 73-54-04W Datum: WGS 84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Hydric Soil Present?  Yes No X  Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present?  Yes  No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Upland scrub shrub.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres  Oxidized Rhizospheres	<u> </u>
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (G7)	
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Figure in Personal Program (B7))	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches)	
Water Table Present? Yes No x Depth (inches)	
Saturation Present? Yes No _x Depth (inches)	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	and and the second and the second about
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Tremano.	
1	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:30' )	% Cover	Species?	Status	Dominance Test worksheet:
1. Malus species	30	Yes		Number of Dominant Species
2				That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
5.				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
·		T 1-10		
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x1 =0
1. Lonicera morrowii	65	Yes	<u>FACU</u>	FACW species 0 x 2 = 0
2				FAC species 8 x 3 = 24
3				FACU species x 4 = 308
4				UPL species0 x 5 =0
5.				Column Totals: 85 (A) 332 (B)
6.				Prevalence Index = B/A = 3.91
7.				Hydrophytic Vegetation Indicators:
	 65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Hart Otratana (Distains		- Total Cover		<del>-</del>
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Equisetum arvense	8	Yes	<u>FAC</u>	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Fragaria virginiana	2	No	FACU	4 - Morphological Adaptations (Provide supporting
3. Lonicera morrowii	5	Yes	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				diameter at breast neight (BBH), regardless of neight.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	15	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				
3.				Hydrophytic
4.				Vegetation Present? Yes No _X_
· ——	 5	=Total Cover		
Demonstrate (Inches of the complete of the com		•		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: CP-8 Upl

SOIL Sampling Point CP-8 Upl

Profile Desc	cription: (Describe t	o the de	pth needed to docu	ıment ti	he indica	tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			k Featur				
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 2/1	100					Loamy/Clayey	
2-6								Rock
6-8	10YR 2/1	100					Loamy/Clayey	
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM	1=Reduced Matrix, M	1S=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Pe	ore Lining, M=Matrix.
Hydric Soil								roblematic Hydric Soils <sup>3</sup> :
— Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B	,	(I DD D	MI DA 1		Redox (A16) (LRR K, L, R)
	stic (A3) n Sulfide (A4)		Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R) elow Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky			-		urface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			, -,		ese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	,	Depleted Matri		,			podplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic Spodio	c (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent M	Material (F21)
Sandy R	tedox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R</b> K, L)			Other (Explain	in in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and w	vetland hydrology mu	ıst be nr	esent ur	nless dist	urbed or problematic	
	Layer (if observed):	orr arra 11	otana nyarology me	ю во рі	000111, 41	mode diet	unded of problemation	
Type:	rock/large	cobbles						
Depth (in	nches):	8					Hydric Soil Present?	Yes No _X_
Remarks:								
								ield Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usua.gov/internet/F3	ב_טטנ	OIVIEINI	3/11/CS 14.	2p2_051293.docx)	



Upland CP at flag CP-8 - View facing east.



**Upland CP-8 - Soils** 

# Phase 2

### **SITE PHOTOGRAPHS**

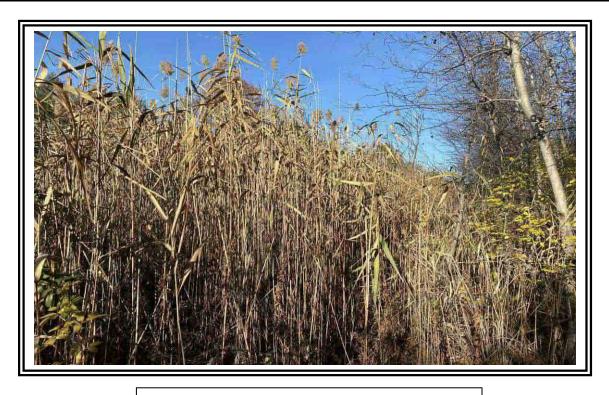
Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CO-10 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): concave Slope %: 0-1
Subregion (LRR or MLRA): LRR R Lat: 42-36-39N	Long: 73-54-03W Datum: WGS84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	opling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Isolated common reed marsh.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  X Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced In	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in	n Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) — Thin Muck Surface (C7)	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	: <u></u>
Water Table Present? Yes No _x Depth (inches):	: <u></u>
Saturation Present? Yes x No Depth (inches)	:0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
No inlet or outlet.	

1. Populus tremuloides       5       Yes       FACU       Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)         3.	<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2			· ——		
Species Across AI Strate:   5 (B)   Forcent of Dominant Species   That Are OBL, FACW, or FAC:   40,0% (A/B FACW)   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   40,0% (A/B FACW)   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   40,0% (A/B FACW)   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   40,0% (A/B FACW)   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW, or FAC:   Add the second of Dominant Species   That Are OBL, FACW   FACW   Species   S x 1 = S      A Row species   S x 1 = S   S     FACW   FACW	2				· ·
Ferront of Dominant Spaces   40.0%   (A/B)					
Prevalence Index worksheet					
Sapilina/Shrub Stratum (Plot size: 15' )   5	_				Prevalence Index worksheet:
1.		5	=Total Cover		Total % Cover of: Multiply by:
2.	Sapling/Shrub Stratum (Plot size:15')				OBL species5 x 1 =5
Same in the image is a second of the image i	1. Lonicera morrowii	5	Yes	FACU	FACW species 90 x 2 = 180
4.	2. Cornus racemosa	5	Yes	FAC	FAC species10 x 3 =30
5.       Column Totals:       122       (A)       285       (B         7.       Hydrophytic Vegetation Indicators:       15       =Total Cover       1 - Rapid Test for Hydrophytic Vegetation       2 - Dominance Test is >50%       1 - Rapid Test for Hydrophytic Vegetation       2 - Dominance Test is >50%       2 - Dominance Test is >50.0       2	3. Rosa multiflora	5	Yes	FACU	FACU species 15 x 4 = 60
6.	4.				UPL species 2 x 5 = 10
6.	5.				Column Totals: 122 (A) 285 (B)
Tree   Woody Vine Stratum   (Plot size:					
15	7				
Leguisetum (Plot size: 5' )   2 - Dominance Test is \$50%     1.   Phragmites australis   90   Yes   FACW   X 3 - Prevalence Index is \$3.0 \frac{1}{2}     2.   Lythrum salicaria   5   No   OBL   4 - Morphological Adaptations \frac{1}{2} (Provide supporting data in Remarks or on a separate sheet)     4.   Equisetum arvense   5   No   FAC   Problematic Hydrophytic Vegetation \frac{1}{2} (Explain)     5.		15	=Total Cover		
1. Phragmites australis 90 Yes FACW X 3 - Prevalence Index is ≤3.0¹ 2. Lythrum salicaria 5 No OBL 4 - Morphological Adaptations¹ (Provide supportir data in Remarks or on a separate sheet) 4. Equisetum arvense 5 No FAC Problematic Hydrophytic Vegetation¹ (Explain) 5.	Herb Stratum (Plot size: 5' )		,		<del>-</del>
2. Lythrum salicaria 5 No OBL Artemisia vulgaris 2 No UPL data in Remarks or on a separate sheet)  4. Equisetum arvense 5 No FAC Problematic Hydrophytic Vegetation (Explain)  5.		90	Yes	FACW	
3. Artemisia vulgaris 4. Equisetum arvense 5 No FAC Problematic Hydrophytic Vegetation¹ (Explain) 5. 6. 7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. Definitions of Vegetation Strata: 8. 9. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height and greater than or equal to 3.28 ft (1 m) tall. 12. 12. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 14. Woody Vine Stratum (Plot size: 30') 15. Woody Vine Stratum (Plot size: 30') 16. Hydrophytic Vegetation 17. Vegetation 18. Hydrophytic Vegetation 19. Hydrophytic Vegetation 19. Hydrophytic Vegetation 19. Present? Yes X No					l <del></del>
4. Equisetum arvense  5 No FAC Problematic Hydrophytic Vegetation¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Strata:  8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height of diameter at breast height (DBH), regardless of height and greater than or equal to 3.28 ft (1 m) tall.  12. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  1. Woody vines – All woody vines greater than 3.28 ft height.  4. Hydrophytic Vegetation Present? Yes X No					
5.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Strata:  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.  Herb – All herbaceous (non-woody) plants, regardles 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 i height.  Hydrophytic Vegetation Present? Yes X No	<del></del> _			<u> </u>	
7. Definitions of Vegetation Strata:  8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height 10.  10. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  12. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  1. Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No					
8.	7				
9.					
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, regardles 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 height.  Hydrophytic Vegetation Present? Yes X No					
11	10.				
Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:	11.				
Woody Vine Stratum (Plot size: 30' )  1.					Harb All borbaccous (non woody) plants, regardless
1		102	=Total Cover		1
1.       height.         2.       Hydrophytic         3.       Vegetation         Present?       Yes X No	Woody Vine Stratum (Plot size:30')				Woody vines — All woody vines greater than 3.28 ft in
2	1.				
3.	0				
4 Yegetation Present? Yes X No	2				I
	1				-
			=Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)	Remarks: (Include photo numbers here or on a sepa	ate sheet.)			

Sampling Point: CO-10 Wet

SOIL Sampling Point CO-10 Wet

Depth	Matrix			x Featur			onfirm the absence o	. maioutorsij
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/1	90	10YR 4/6	10	<u>C</u>	PL_	Loamy/Clayey	Prominent redox concentrations
10-20	10YR 5/2		10YR 4/6	30	<u>C</u>	_M_	Loamy/Clayey	Prominent redox concentrations
						_ _		
					<u> </u>			
		<u> </u>				<u> </u>		
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	/IS=Masl	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped	ipedon (A2)	(A11)	Polyvalue Belo MLRA 149B Thin Dark Surfi High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri X Redox Dark St Depleted Dark PREDOX Depress Marl (F10) (LR	) ace (S9) Sands (S Mineral ( Matrix (I x (F3) urface (F Surface sions (F8	(LRR R (11) (LRI (F1) (LRI (F2) (6) (F7)	, MLRA 1 R K, L)	? Coast Pi 5 cm Mu Polyvalu Thin Dai Iron-Mar Piedmor Mesic Si Red Par Very Shi	uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) explain in Remarks)
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mu	ıst be pr	esent, ui	nless dist	urbed or problematic.	
	ayer (if observed):	_						
Type: - Depth (ir	none nches):	9					Hydric Soil Prese	nt? Yes X No
	m is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland CO at flag CO-10 - View facing west.



Wetland CO-10 - Soils

# Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CO-10 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none
Subregion (LRR or MLRA): LRR R Lat: 42-36-39N	Long: 73-54-03W Datum: WGS 84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Upland deciduous forest.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres  Oxidized Rhizospheres	<u> </u>
Presence of Reduced In	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (G7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Fig. is in Personal Carlot in Personal	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches)	
Water Table Present? Yes No _x Depth (inches)	
Saturation Present? Yes No x Depth (inches)	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks:	
1	

roo Stratum (Plot cizo: 20'	Absolute % Cover	Dominant Species 2	Indicator	Dominance Test worksheet
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
. Quercus rubra . Populus tremuloides	80	Yes	FACU	Number of Dominant Species
Populus tremuloides	15	No	<u>FACU</u>	That Are OBL, FACW, or FAC:(A)
	<del>-</del>			Total Number of Dominant
·				Species Across All Strata: 6 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/B
		·		Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15'	)			OBL species0 x 1 =0
Lonicera morrowii	20	Yes	<u>FACU</u>	FACW species 0 x 2 = 0
Prunus serotina	8	Yes	<u>FACU</u>	FAC species 0 x 3 = 0
				FACU species141 x 4 =564
·	_			UPL species0 x 5 =0
·	_			Column Totals: 141 (A) 564 (B
·	-			Prevalence Index = B/A = 4.00
·				Hydrophytic Vegetation Indicators:
	28	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:)				2 - Dominance Test is >50%
Quercus rubra	5	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
. Rubus allegheniensis	8	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Lonicera morrowii	5	Yes	FACU	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
i				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
i				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardles
	18	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30'	)	•		Woody vines – All woody vines greater than 3.28 ft in
				height.
,				Hydrophytic
				Vegetation
				I Present? Yes No X
		=Total Cover		Present? Yes No _X_

SOIL Sampling Point CO-10 Upl

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ument t</b> l x Featur		tor or co	nfirm the absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	% T Calui	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	100			.,,,,		Sandy	rtomano
5-11	10YR 5/4	100					Loamy/Clayey	
	10111011	100					Loamy/Olayey	
<sup>1</sup> Type: C=Cc	ncentration, D=Depl	etion, RM	======================================	 ∕S=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil I			·					oblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		(10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B					Redox (A16) (LRR K, L, R)
— Black His			Thin Dark Surf					Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) Layers (A5)		High Chroma S Loamy Mucky					low Surface (S8) ( <b>LRR K, L</b> ) rface (S9) ( <b>LRR K,</b> L)
	Below Dark Surface	(A11)	Loamy Gleyed			× κ, Ε)		ese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	(7.11)	Depleted Matri		1 2)			odplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark Su		<del>-</del> 6)			(TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent M	laterial (F21)
	edox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Explai	n in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	vetland hydrology mu	ist he ni	resent iir	nlees disti	urbed or problematic.	
	.ayer (if observed):	on and w	cuana nyarology me	ast be pi	Cociit, ui	iioss dist	arbed of problemado.	
Type:	rock	(						
Depth (in	ches):	11					Hydric Soil Present?	Yes No _X_
Remarks:								
	m is revised from Noı 2015 Errata. (http://w							eld Indicators of Hydric Soils,
version 7.0, 2	2010 Errata. (Ittp://w	ww.iiics.	usua.gov/internet/1	JL_DO(	JOIVILIVI	O/111C3 1 <del>-1</del> 2	τρ2_001290.d00λ)	



Upland CO at flag CO-10 - View facing east.



**Upland CO-10 - Soils** 

# Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: EDR L-1 Wel
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
• • • •	relief (concave, convex, none): concave Slope %: 0-1
Subregion (LRR or MLRA): LRR R Lat: 42-36-37N	Long: 73-54-01W Datum: WGS 84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Possible vernal pool. Isolated.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	<u> </u>
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	· · · · · · · · · · · · · · · · · · ·
Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (CT)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Personal International In	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes x No Depth (inches)	
Saturation Present? Yes x No Depth (inches). (includes capillary fringe)	:0 Wetland Hydrology Present? Yes _X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (Stream gauge, monitoring well, aerial photos, pre	inspections), if available.
Remarks:	
No inlet or outlet. Inundated during visit.	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Dominant Species
2				That Are OBL, FACW, or FAC:3 (A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x1 =0
1. Ilex verticillata	25	Yes	<u>FACW</u>	FACW species 30 x 2 = 60
2. Cornus racemosa	10	Yes	<u>FAC</u>	FAC species10 x 3 =30
3				FACU species 0 x 4 = 0
4				UPL species0 x 5 =0
5				Column Totals: 40 (A) 90 (B)
6.				Prevalence Index = B/A =2.25
7				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	5	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5.</li><li>6.</li></ul>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3.				Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: EDR L-1 Wet

SOIL Sampling Point EDR L-1 Wet

Profile Desc	ription: (Describe t	o the de				ator or co	onfirm the absence of indicators.)	
Depth	Matrix			< Featur		. 2		
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	;
0-7	10YR 4/1	100					Loamy/Clayey	
7-8	10YR 2/1	100					Sandy	
8-20	10YR 4/2	80	10YR 6/4		<u> </u>	M	Loamy/Clayey Distinct redox cond	entrations
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RN	 /I=Reduced Matrix. M	 IS=Masl	ked Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matri	 x.
Hydric Soil		,	,				Indicators for Problematic Hydric	
Histosol	(A1)		Polyvalue Belo	w Surfac	ce (S8) (	LRR R,	2 cm Muck (A10) ( <b>LRR K, L, ML</b>	_RA 149B)
	pipedon (A2)		MLRA 149B				Coast Prairie Redox (A16) (LRR	·
Black Hi			Thin Dark Surfa					·
	n Sulfide (A4)		— High Chroma S			-	Polyvalue Below Surface (S8) (L	·
	l Layers (A5) l Below Dark Surface	/ <b>//11</b> \	Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, Iron-Manganese Masses (F12)	·
	ark Surface (A12)	(A11)	X Depleted Matrix		Γ <i>Δ)</i>		Piedmont Floodplain Soils (F19)	
	lucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144	
	leyed Matrix (S4)		— Depleted Dark	•	•		Red Parent Material (F21)	, ,
Sandy R	edox (S5)		Redox Depress	sions (F	3)		Very Shallow Dark Surface (F22	<b>:)</b>
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K</b> , L)			Other (Explain in Remarks)	
Dark Sui	face (S7)							
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and v	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:	none	9						
Depth (ir	nches):						Hydric Soil Present? Yes X	No
Remarks:								
							2.0 to include the NRCS Field Indicators of H	ydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs	usua.gov/internet/F3	ב_טטנ	OMENI	S/IIICS 14.	2P2_031293.docx)	



Wetland EDR L at flag L-1 - View facing west.



Wetland EDR L-1 - Soils

# Phase 2

### **SITE PHOTOGRAPHS**

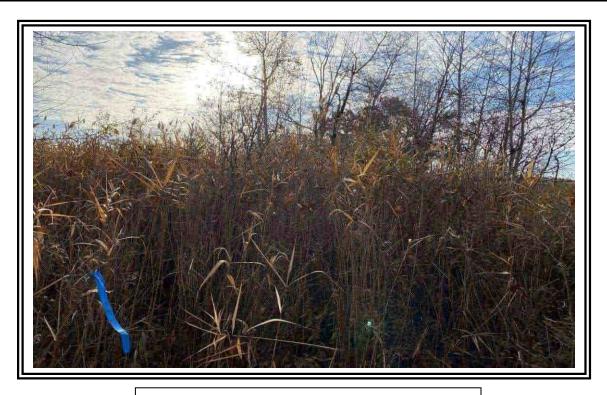
Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CN-8 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-36-36N	Long: 73-54-00W Datum: WGS 84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yesx No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Common reed marsh.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction ir	n Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches):	:
Water Table Present? Yes No x Depth (inches):	:
Saturation Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator						
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:					
1 2		·		Number of Dominant Species That Are OBL, FACW, or FAC:(A)					
3. 4.				Total Number of Dominant Species Across All Strata: (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:15')				OBL species0 x 1 =0					
1. Cornus racemosa	25	Yes	FAC	FACW species 85 x 2 = 170					
2.				FAC species 25 x 3 = 75					
3.				FACU species 2 x 4 = 8					
4.				UPL species 3 x 5 = 15					
5.				Column Totals: 115 (A) 268 (B)					
6.				Prevalence Index = B/A = 2.33					
7.				Hydrophytic Vegetation Indicators:					
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation					
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%					
1. Phragmites australis	85	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>					
2. Artemisia vulgaris	3	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting					
3.				data in Remarks or on a separate sheet)					
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
5		<u> </u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must					
6				be present, unless disturbed or problematic.					
7				Definitions of Vegetation Strata:					
8				Tree – Woody plants 3 in. (7.6 cm) or more in					
9				diameter at breast height (DBH), regardless of height.					
10				Sapling/shrub – Woody plants less than 3 in. DBH					
11.				and greater than or equal to 3.28 ft (1 m) tall.					
12				Herb – All herbaceous (non-woody) plants, regardless					
	88	=Total Cover		of size, and woody plants less than 3.28 ft tall.					
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in					
1. Vitis aestivalis	2	No	FACU	height.					
2				Hydrophytic					
3.				Vegetation					
4				Present? Yes X No No					
	2	=Total Cover							
Remarks: (Include photo numbers here or on a separate sheet.)									

Sampling Point: \_\_CN-8 Wet

SOIL Sampling Point CN-8 Wet

Depth	Matrix	o ino do		x Featur			onfirm the absence o	· maioato si,
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-9	10YR 2/1	100					Loamy/Clayey	
9-20	10YR 5/2	70	10YR 5/6	30		<u>M</u>	Loamy/Clayey	Prominent redox concentrations
	oncentration, D=Deple	etion, RN	1=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil Histosol			Polyvalue Belo	w Surfa	ce (S8) (	I DD D		or Problematic Hydric Soils <sup>3</sup> : uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		cc (00) (	LIXIX IX,		rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		(LRR R	. MLRA 1		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky I			-		rk Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,		nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	(	X Depleted Matrix		,			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		<del>-</del> 6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)			rent Material (F21)
Sandy R	Redox (S5)		Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
 Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b> l	RK, L)			Other (E	Explain in Remarks)
Dark Su	rface (S7)						<del></del>	
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and v	vetland hydrology mu	ıst be pr	esent, u	nless dist	urbed or problematic.	
	Layer (if observed):							
Type: Depth (ir	none nches):	<del>3</del>					Hydric Soil Prese	nt? Yes X No
Remarks:	, <u> </u>							
	m is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
version 7.0,	2015 Ellata. (Ilttp://w	ww.mcs.	usua.gov/internet/1 c	3L_DOC	JOIVILINI	3/11/05 14/	2β2_031293.d0cx)	



Wetland CN at flag CN-8 - View facing south.



Wetland CN-8 - Soils

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CN-8/EDR L-1
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
	relief (concave, convex, none): none
Subregion (LRR or MLRA): LRR R Lat: 42-36-37N	Long: 73-54-01W Datum: WGS 84
Soil Map Unit Name: Rhinebeck silty clay loam (RhA)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	<del></del>
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Deciduous upland forest. CN-8 and EDR L-1 Upl.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	<u> </u>
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Ir	<del>_</del>
Algal Mat or Crust (B4)  — Recent Iron Reduction i	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches)	
Water Table Present? Yes No _x Depth (inches)	
Saturation Present? Yes No _x Depth (inches)	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

#### **VEGETATION** – Use scientific names of plants.

Trop Stratum (Plot size: 20' )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet			
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
Quercus rubra     Prunus serotina	95 2	Yes No	FACU FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
3.							
4.				Total Number of Dominant Species Across All Strata: 4 (B)			
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)			
7.				Prevalence Index worksheet:			
	97	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species0x1 =0			
1. Cornus racemosa	50	Yes	FAC	FACW species 0 x 2 = 0			
2.				FAC species 60 x 3 = 180			
3.				FACU species115 x 4 =460			
4.				UPL species 0 x 5 = 0			
5.				Column Totals: 175 (A) 640 (B)			
6.				Prevalence Index = B/A = 3.66			
7.				Hydrophytic Vegetation Indicators:			
	 50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%			
1. Lonicera morrowii	5	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Rubus allegheniensis	 8	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Cornus racemosa	10	Yes	FAC	data in Remarks or on a separate sheet)			
4. Quercus rubra	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6.				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	28	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
1.				height.			
2				Litratura mitratica			
3.				Hydrophytic Vegetation			
4				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: CN-8/EDR L-1

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>iment th</b> x Featur		ator or co	onfirm the absence of inc	licators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	100					Sandy	
5-20	10YR 5/3	100					Loamy/Clayey	
								_
1 <sub>Type: C=C</sub>	oncentration, D=Depl	otion PN	4-Paducad Matrix N				21 ocation: PI =P	ore Lining, M=Matrix.
Hydric Soil		ellori, ran	i-Reduced Matrix, IV	io-iviasi	keu Sanc	Giailis.		roblematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B	)			Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	311) ( <b>LR</b> F	R K, L)	Polyva <b>l</b> ue Be	elow Surface (S8) ( <b>LRR K, L</b> )
	l Layers (A5)		Loamy Mucky I			R K, L)		ırface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Depleted Matrix		·C\			oodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1) Bleyed Matrix (S4)		Redox Dark Su Depleted Dark	,	•			c (TA6) ( <b>MLRA 144A, 145, 149B</b> ) Material (F21)
_	ledox (S5)		Redox Depress					/ Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		<i>3</i> ,			in in Remarks)
	rface (S7)			, _ ,				
	, ,							
	, , , ,	on and v	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:	none	e						
Depth (ir	nches):						Hydric Soil Present?	Yes No _X
Remarks:								
	m is revised from Noi 2015 Errata. (http://w							ield Indicators of Hydric Soils,
version 7.0,	2010 Errata: (http://w	ww.mcs.	usua.gov/mtc/mcv/ c	,L_DOC	JOIVILIAI	0/11/03 1-12	2p2_001200.d00x)	



Upland EDR L & CN-8 - View facing east.



**Upland EDR L & CN-8 - Soils** 

## Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21					
Applicant/Owner: TDI	State: NY Sampling Point: CM-2 Wet					
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:					
- ' -	relief (concave, convex, none): concave Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 42-36-33N	Long: 73-53-59W Datum: WGS 84					
Soil Map Unit Name: Scio silt loam (ScA)	NWI classification: PEM					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly distur						
Are Vegetation, Soil, or Hydrology naturally problems	<del></del>					
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) x Water-Stained Leaves (						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor						
Sediment Deposits (B2)  Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Ir	ron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)Recent Iron Reduction i	in Tilled Soils (C6) <u>x</u> Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remai						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes x No Depth (inches)	n:					
Water Table Present? Yes x No Depth (inches)	): <u>4</u>					
Saturation Present? Yes x No Depth (inches)	:0 Wetland Hydrology Present? Yes _ X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						

#### **VEGETATION** – Use scientific names of plants.

Free Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Populus deltoides	15	Yes	FAC				
				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
	-						
				Total Number of Dominant Species Across All Strata: 4 (B)			
•				Species Across All Strata: 4 (B)			
·				Percent of Dominant Species			
·				That Are OBL, FACW, or FAC: 75.0% (A/B			
·				Prevalence Index worksheet:			
	15	=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15')				OBL species0 x1 =0			
Cornus racemosa	20	Yes	<u>FAC</u>	FACW species 55 x 2 = 110			
L. Lonicera morrowii	5	<u>Yes</u>	<u>FACU</u>	FAC species35 x 3 =105			
•				FACU species 5 x 4 = 20			
				UPL species 0 x 5 = 0			
				Column Totals: 95 (A) 235 (E			
·				Prevalence Index = B/A =2.47			
				Hydrophytic Vegetation Indicators:			
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
erb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%			
Onoclea sensibilis	45	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago gigantea	10	No No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
. Spaghnum sp.	5	No		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain			
i				1 Indicators of hydric and postport hydrology revet			
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height			
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
z	60	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30' )		- Total Cover					
				Woody vines – All woody vines greater than 3.28 ft i			
				height.			
				Hydrophytic			
•				Vegetation			
•				Present?			
		=Total Cover					

SOIL Sampling Point CM-2 Wet

Depth	ription: (Describe t Matrix			k Featur				,
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/1	100					Loamy/Clayey	
8-20	10YR 4/1	80	10YR 4/6		<u>C</u>	<u>M</u> .	Loamy/Clayey	Prominent redox concentrations
						<u> </u>		
						—		
						<u> </u>		
		_				_		
1							2	
'Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	oipedon (A2)	on and w	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) ace (S9) ands (S Mineral Matrix ( x (F3) rrface (F Surface sions (F8 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 6) (F7)	, MLRA 1 R K, L) R K, L)	Coast P 5 cm Mu Polyvalu Thin Da Iron-Mai Piedmon Mesic S Red Par Very Sh Other (E	uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) explain in Remarks)
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland CM at flag CM-2 - View facing xx



Wetland CM-2 - Soils

Phase 2

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CM-2 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
· · · · · · · · · · · · · · · · · · ·	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-36-33N	Long: 73-53-59W Datum: WGS 84
Soil Map Unit Name: Scio silt loam (ScA)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	<del></del>
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Deciduous forested upland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	<u> </u>
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	——————————————————————————————————————
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Much Surface (G7)	
Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Figure in Reposit	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches):	
Water Table Present? Yes No _x Depth (inches):	
Saturation Present? Yes No x Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

#### **VEGETATION** – Use scientific names of plants.

Two Stratum (Diet size: 20)	Absolute % Cover	Dominant Species 2	Indicator Status	Dominana Test weeksheet			
Tree Stratum (Plot size: 30' )		Species?		Dominance Test worksheet:			
1. Quercus rubra	60	Yes	FACU	Number of Dominant Species			
2. Quercus montana	15	No No	UPL	That Are OBL, FACW, or FAC:(A)			
3. Pinus strobus	15	No	<u>FACU</u>	Total Number of Dominant			
4. Betula populifolia	2	No	<u>FAC</u>	Species Across All Strata: 6 (B)			
<ul><li>5. Juniperus virginiana</li><li>6</li></ul>	2	<u>No</u>	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
7.				Prevalence Index worksheet:			
	94	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0			
1. Lonicera morrowii	5	Yes	FACU	FACW species 0 x 2 = 0			
2. Cornus racemosa	5	Yes	FAC	FAC species 9 x 3 = 27			
3.				FACU species 90 x 4 = 360			
1				UPL species 15 x 5 = 75			
-				Column Totals: 114 (A) 462 (B)			
<u> </u>				(,			
7				Hydrophytic Vegetation Indicators:			
Hart Otratara (Districts	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )	•	.,	<b>540</b> 11	2 - Dominance Test is >50%			
1. Lonicera morrowii	3	<u>Yes</u>	<u>FACU</u>	3 - Prevalence Index is ≤3.0¹			
2. Quercus rubra	5	Yes	<u>FACU</u>	4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)			
3. <u>Toxicodendron radicans</u>	2	Yes	FAC_				
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6.				be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	10	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
1				height.			
2							
3.				Hydrophytic Vegetation			
4.				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	rate sheet )						
Tremarks. (meddd proto numbers nere or o'r a separ	ato snoct.)						

Sampling Point: \_\_\_CM-2 Upl

SOIL Sampling Point CM-2 Upl

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ument tl</b> x Featur		ator or co	onfirm the absence of ind	icators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/2	100			- 71		Loamy/Clayey	
6-20	10YR 5/2	100					Loamy/Clayey	
1								
	ncentration, D=Depl	etion, RN	1=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		ore Lining, M=Matrix.  coblematic Hydric Soils <sup>3</sup> :
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		(/(	,		Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9	) (LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma S	3ands (S	611) ( <b>LR</b> F	₹ K, L)	Polyvalue Be	low Surface (S8) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Thin Dark Su	rface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Mangan	ese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Depleted Matri					oodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark Su	•	•			c (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					Material (F21)
	edox (S5)		Redox Depress	•	8)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	.R K, L)			Other (Explai	n in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	vetland hydrology mu	ust be pi	resent, ur	nless dist	urbed or problematic.	
	.ayer (if observed):							
Type: _	none	9						
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:	on to more than all forms No.	-tlt	Land Madhand Dan			4 ) /!	O O to Small and a NEOO E	iald la dia stana at llendria Calla
	n is revised from Noi 2015 Errata. (http://w							ield Indicators of Hydric Soils,



Upland CM at flag CM-2 - View facing southeast.



**Upland CM-2 - Soils** 

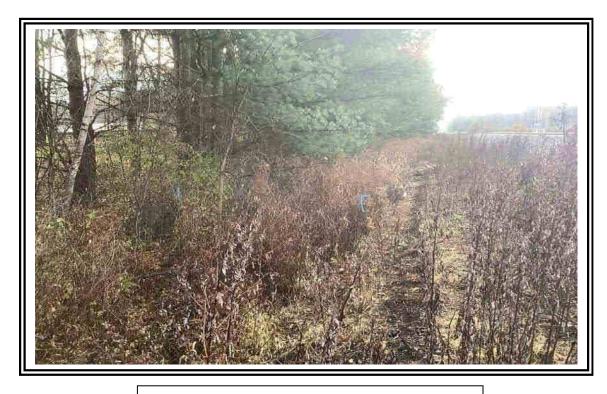
Phase 2

### **SITE PHOTOGRAPHS**

Project/Site:	Champlain Hud	son Power Expre	ess	City/County	: New	Scotland, Alba	any County.	Sampling Date:	11/10/2021
Applicant/Owner:	, , , , , , , , , , , , , , , , , , ,		Engineering Gro				ate: New York		WK-1W
Investigator(s):		MA, KC		Section, Tov	wnship, Rang			of New Scotland	
Landform (hillslope, terra	ace, etc):	Swale	Local re	elief (concave	e, convex, no	ne):	concave	Slope	(%): 0-3
Subregion (LRR or MLR	RA):	LRR R	Lat:	42.608	343333	Long:	-73.899050°	14 Datum	n: WGS 1984
Soil Map Unit Name:	'-	Rh	inebeck silty clay	y loam			NWI classification	on:	
Are climatic / hydrologic			is time of year?	Yes X	No	(If no,	explain in Remark	s.)	
Are Vegetation X							cumstances" prese		No
Are Vegetation	_						in any answers in		
SUMMARY OF FIN	IDINGS - Attac	ch site map s	howing sam	pling poir	nt location	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation	on Present?	Yes X	No	Is	s the Sample	ed Area			
Hydric Soil Present?		Yes	NoX	_   •	vithin a Wetl	and?	Yes X	No	_
Wetland Hydrology Pr	resent?	Yes X	No	_   "	f yes, optiona	l Wetland Site	: ID:	WK-1W PEM	
I .		ent to railroad tr	acts. Hydrology, vel refusal.					ilroad. Soil sample	
HYDROLOGY				and in re			it it on wet	iana mappin	9
Wetland Hydrology I	Indicators:			and in re	eport tex	ι.			
Primary Indicators (mi		uired: check all th	nat apply)				Secondary Indica	ators (minimum of to	wo reauired)
X Surface Water (A			Water-Staine	d Leaves (B9	1)		· · · · · · · · · · · · · · · · · · ·	Cracks (B6)	
X High Water Table	e (A2)		Aquatic Faun	a (B13)			Drainage Pa	atterns (B10)	
X Saturation (A3)		_	Marl Deposits	s (B15)			Moss Trim L		
Water Marks (B1	,	<u>&gt;</u>	<u>Hydrogen Su</u>					Water Table (C2)	
Sediment Depos	, ,	_	_ Oxidized Rhiz	•	_	(C3)	Crayfish Bui		(00)
Drift Deposits (B:	•	_	Presence of F			·e\		isible on Aerial Ima	
Algal Mat or Crus Iron Deposits (B		_	_ Recent Iron F Thin Muck Su		rillea Solis (C	0)	X Geomorphic	Stressed Plants (D1	)
l — ' '	e on Aerial Imager	v (B7)	Other (Explai	. ,	:)		Shallow Aqu	. ,	
l —	ted Concave Surfa	· · · · —	_		• /			aphic Relief (D4)	
		. ,					X FAC-Neutra		
Field Observations:	-40 V	V Na	Danth /inch	).					
Surface Water Preser Water Table Present?		XNo XNo			<del>*</del>				
Saturation Present?	<del>-</del>	XNo				Wetland Hydr	rology Present?	Yes X	No
(includes capillary frin	-	<u> </u>	Bepair (interior			vvotiana myan	ology i resent.	103 <u>X</u>	
(									
Describe Recorded D	ata (stream gauge	, monitoring well	, aerial photos, p	revious inspe	ections), if av	ailable:			
Remarks:									
Tromano.									

VEGETATION - Use scientific names of plants.				Sampling Point: WK-1W
True Charters (Districts 20 Foots)	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:30 Feet)  1 2	% Cover	Species?	Status	Total Number of Dominant Species Across All Strata:3 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC:66.7 (A/B)
6. 7.				Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 Feet )	0	= Total Cov	er	OBL species x 1 = 20
Populus tremuloides / Quaking aspen 2.	5	Yes	FACU	FAC species         0         x 3 =         0           FACU species         5         x 4 =         20
3				UPL species         0         x 5 =         0           Column Totals:         85         (A)         160         (B)
6				Prevalence Index = B/A =1.88
Herb Stratum (Plot size: 5 Feet )	5	_ = Total Cov		Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
Onoclea sensibilis / Sensitive fern     Lythrum salicaria / Purple loosestrife	<u>50</u> 20	Yes Yes	_ <u>FACW</u> OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
Solidago gigantea / Smooth goldenrod     Solidago gigantea / Smooth goldenrod	10	No	FACW	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				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.
Woody Vine Stratum (Plot size: 30 Feet )	80	_ = 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
1. 2. 3.		_		size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in
4.		= Total Cov		height.
		_ = 10tal Cov	ei	Hydrophytic  Vegetation  Present?  Yes X No
Remarks: (Explain alternative procedures here or in a separa	te report.)			

SOIL Sampling Point: WK-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Loc<sup>2</sup> (inches) Color (moist) Type<sup>1</sup> Texture Remarks 10YR 2/1 0-2 100 Clay Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) <sup>3</sup>Indicators 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: Gravel refusal at 2in



Wetland K - View facing southeast



Wetland K - Soils

# Package 5

### **SITE PHOTOGRAPHS**

Project/Site:	Champlain F	Hudson Power Expres	ss City/Co	unty: New So	cotland, Albany County.	Sampling Date:	11/10/2021
Applicant/Owner:			Ingineering Group		State: New York	· · · -	WK-1U
Investigator(s):		MA, KC	Section	, Township, Range:		of New Scotland	
Landform (hillslope, ter	rrace, etc):	Flat	Local relief (con	cave, convex, none	): none	Slope	(%): 0-3
Subregion (LRR or ML	.RA):	LRR R		2.60839735	Long: -73.898947	62 Datum	: WGS 1984
Soil Map Unit Name:			nebeck silty clay loam		NWI classificati	on:	
Are climatic / hydrologi	ic conditions on t	he site typical for this	s time of year? Yes	X No	(If no, explain in Remarl	(s.)	
			significantly disturbe		 Normal Circumstances" pres	ent? Yes X	No
			naturally problemati		eded, explain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - At	tach site map sl	 howing sampling p	ooint locations	, transects, important	features, etc.	
Hydrophytic Vegetat	tion Present?	Yes	No X	Is the Sampled	Area		
Hydric Soil Present?		Yes	No X	within a Wetlan		NoX	
Wetland Hydrology F		Yes	No X		Vetland Site ID:		-
			_ ``	1.,,			
		dures here or in a sep vetland K adjacent to					
HYDROLOGY							
Wetland Hydrology	/ Indicators:						
"		required; check all tha	at apply)		Secondary Indic	ators (minimum of tv	vo required)
Surface Water (			Water-Stained Leaves	(B9)		l Cracks (B6)	· /
High Water Tab	ole (A2)		- Aquatic Fauna (B13)	,	<del></del>	atterns (B10)	
Saturation (A3)	)		Marl Deposits (B15)		Moss Trim	_ines (B16)	
Water Marks (B	31)		Hydrogen Sulfide Odo	r (C1)	Dry-Seasor	Water Table (C2)	
Sediment Depo	osits (B2)	_	Oxidized Rhizosphere	s on Living Roots (0	C3) Crayfish Bu	rrows (C8)	
Drift Deposits (	B3)	_	Presence of Reduced	Iron (C4)	Saturation '	√isible on Aerial Ima	gery (C9)
Algal Mat or Cri	ust (B4)	_	Recent Iron Reduction	n in Tilled Soils (C6)	Stunted or	Stressed Plants (D1)	)
Iron Deposits (E	B5)	_	Thin Muck Surface (C	7)	Geomorphi	c Position (D2)	
Inundation Visit	ble on Aerial Ima	gery (B7)	Other (Explain in Rem	arks)	Shallow Aq	uitard (D3)	
Sparsely Veget	tated Concave Su	urface (B8)			Microtopog	raphic Relief (D4)	
					FAC-Neutra	ıl Test (D5)	
Field Observations							
Surface Water Prese		es No X	Depth (inches):				
Water Table Present		es No X	_ ' '				
Saturation Present?		es No X	_ ' '		etland Hydrology Present?	Yes	No X
(includes capillary fri		,3 NOX			etiana nyarology i resent:		<u> </u>
(includes capillary in							
Describe Recorded I	Data (stream gaı	uge, monitoring well,	aerial photos, previous i	nspections), if avail	able:		
Demodes							
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point: WK-1U
				Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
T 01 1 (DI 1 )	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 Feet )	% Cover	Species?	Status	Total Number of Dominant
1. Pinus strobus / Eastern white pine	60	Yes	<u>FACU</u>	Species Across All Strata: 5 (B)
2. Populus tremuloides / Quaking aspen	10	No	<u>FACU</u>	(-/
3	_			Percent of Dominant Species
4				That Are OBL, FACW, or FAC: 20.0 (A/B)
5				(**-)
6				Prevalence Index worksheet:
7		_		Total % Cover of: Multiply by:
	70	_ = Total Cov	er	OBL species $0   x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 Feet )				FACW species 0 x 2 = 0
Cornus racemosa / Gray dogwood	15	Yes	FAC	FAC species 15 x 3 = 45
2. Lonicera morrowii / Morrow's honeysuckle	10	Yes	FACU	FACU species 90 x 4 = 360
3				UPL species 5 x 5 = 25
4.				Column Totals: 110 (A) 430 (B)
5				
6				Prevalence Index = B/A = 3.91
7.				
	25	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet )				1 - Rapid Test for Hydrophytic Vegetation
1. Lonicera morrowii / Morrow's honeysuckle	10	Yes	FACU	2 - Dominance Test is >50%
2. Rubus / Blackberry	5	Yes	NI	3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain )
5.				
6.				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
12.				breast height (DBH), regardless of height.
	15	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 Feet )			•.	greater than or equal to 3.28 ft (1 m) tall.
1.				Herb - All herbaceous (non-woody) plants, regardless of
2.				size, and woody plants less than 3.28 ft tall.
3.			<del>-</del>	Woody vines - All woody vines greater than 3.28 ft in
4.		_		height.
· -		= Total Cov		
		_ = 10tal 001		Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separation	te report.)			

SOIL Sampling Point: WK-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Loc<sup>2</sup> (inches) Color (moist) Type<sup>1</sup> Texture Remarks 10YR 2/1 0-3 100 Loamy Sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) <sup>3</sup>Indicators 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: Gravel refusal at 3in



**Upland K - View facing northwest** 



Upland K - Soils

Package 5

**SITE PHOTOGRAPHS** 

Project/Site:	Champlain Hu	dson Power Expres	s City/Cou	ınty: New S	Scotland, Albany	/ County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt Er	gineering Group		State:	: New York	Sampling Point:	WI-1W
Investigator(s):		MA, KC	Section,	Township, Range	e:	Town c	of New Scotland	
Landform (hillslope, terr	race, etc):	Lowland	Local relief (cond	ave, convex, nor	ne):	concave	Slope	(%): 0-3
Subregion (LRR or MLF			Lat: 42.	60369744	Long:	-73.8950507	78 Datur	n: WGS 1984
Soil Map Unit Name: _			Scio silt loam		1	NWI classification	on:	
Are climatic / hydrologic	conditions on the	e site typical for this	time of year?    Yes <u> </u>	X No	(If no, ex	plain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	d? Are	"Normal Circun	nstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally problemation	c? (If r	needed, explain	any answers in	Remarks.)	
<b>SUMMARY OF FIN</b>	NDINGS - Atta	ach site map sh	owing sampling p	oint location	s, transects	, important	features, etc.	
Hydrophytic Vegetation	on Present?	Yes X	No	Is the Sample	d Area			
Hydric Soil Present?		Yes X		within a Wetla	and?	Yes X	No	
Wetland Hydrology P	resent?	Yes X	No	If yes, optional	l Wetland Site Iℂ	D:	WI-1W PFO	
<u>                                   </u>	int within wetland	I adjacent to mowed	I field and industrial area					
Identified as	Wetland E	DR-I on wetla	and mapping a	nd in repor	t text.			
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m		equired: check all tha	t apply)		s	econdary Indica	ators (minimum of t	wo required)
X Surface Water (			Water-Stained Leaves	(B9)		•	Cracks (B6)	<u></u>
X High Water Tabl	e (A2)	_	Aquatic Fauna (B13)	` ,	_	<del></del>	atterns (B10)	
X Saturation (A3)	,	_	Marl Deposits (B15)		_	Moss Trim L	, ,	
Water Marks (B	1)		Hydrogen Sulfide Odor	· (C1)	_	 Dry-Season	Water Table (C2)	
Sediment Depos	sits (B2)	<u>x</u>	Oxidized Rhizospheres	on Living Roots	(C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	33)	_	Presence of Reduced I	ron (C4)	_	Saturation V	/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	ıst (B4)	_	Recent Iron Reduction	in Tilled Soils (C6	6) 	Stunted or S	Stressed Plants (D	I)
Iron Deposits (B	5)		Thin Muck Surface (C7	·)		Geomorphic	Position (D2)	
Inundation Visib	le on Aerial Image	ery (B7)	Other (Explain in Rema	arks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Sur	face (B8)			_	Microtopogr	aphic Relief (D4)	
					_	FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Prese		s X No	Depth (inches):	0.25				
Water Table Present?			Depth (inches).	3				
Saturation Present?	Yes		Depth (inches).	0 V	Netland Hydrol	ogv Present?	Yes X	No
(includes capillary frin								
, , ,								
Describe Recorded D	)ata (stream gauç	ge, monitoring well, a	erial photos, previous ir	spections), if ava	ailable:			
Remarks:								

Dominance Test worksheet:   Number of Dominant Species   That Are OBL, FACW, or FAC:   5   (A)
Total Number of Dominant   Species Across All Strata:   7   (E
Species Across All Strata:
Percent of Dominant Species
That Are OBL, FACW, or FAC:
That Are OBL, FACW, or FAC:
Prevalence Index worksheet:   Total % Cover of:   Multiply by:
Total % Cover of: Multiply by:
OBL species   0
OBL species   0
FAC         FAC species         20         x 3 =         60           FACW         FACU species         15         x 4 =         60           UPL species         0         x 5 =         0           Column Totals:         75         (A)         200           Prevalence Index = B/A =         2.67           Hydrophytic Vegetation Indicators:
FAC         FAC species         20         x 3 =         60           FACW         FACU species         15         x 4 =         60           UPL species         0         x 5 =         0           Column Totals:         75         (A)         200           Prevalence Index = B/A =         2.67           Hydrophytic Vegetation Indicators:
FACW FAC         FACU species         15         x 4 =         60           UPL species         0         x 5 =         0           Column Totals:         75         (A)         200           Prevalence Index = B/A =         2.67           Hydrophytic Vegetation Indicators:
UPL species
Column Totals:   75   (A)   200
Prevalence Index = B/A = 2.67  Hydrophytic Vegetation Indicators:
Prevalence Index = B/A = 2.67  Hydrophytic Vegetation Indicators:
Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
i rapid restrict rigarophytic regulation
FAC X 2 - Dominance Test is >50%
FACU 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.
be present, unless distarsed of problematic.
Definitions of Vegetation Strata
<del></del>
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
Present?         YesX No
FICOCIIL: ICO ∧ INU

SOIL Sampling Point: WI-1W

Depth	Matrix			x Features			nce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-5	10YR 2/1	100					Sandy Clay			
5-18	10YR 4/2	70	10YR 4/1	25	D	М	Sandy Clay			
5-18			10YR 5/8		С	PL				
,										
					·					
				-						
					· —— ·					
				-						
Type: C=Con	centration, D=Depletion	on, RM=Redu	ıced Matrix, MS=Masl	ked Sand G	ains.		²Loca	ation: PL=P	ore Lining, M=N	Matrix.
ydric Soil In	udicators:						Indicators	s for Proble	ematic Hydric	Soile <sup>3</sup> :
Histosol (			Polyvalue Belov	v Surface (S	8) (I RR R I	MI RA 140			) (LRR K, L, M	
`	,			· ·			· —			
	ipedon (A2)		Thin Dark Surfa			1496)			dox (A16) (LR	
Black His			Loamy Mucky M		(LKK K, L)				at or Peat (S3)(	(LKK K, L, K)
	Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	(I DD IZ 1)
_	Layers (A5)	(444)	X Depleted Matrix						Surface (S8) (	
	Below Dark Surface (	(ATT)	Redox Dark Sur						ce (S9) (LRR M	
	rk Surface (A12)		Depleted Dark S					_		(LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ions (F8)						) (MLRA 149B)
	leyed Matrix (S4)									4A, 145, 149B)
Sandy Re								Parent Mate		
	Matrix (S6)								rk Surface (TF1	12)
Dark Surf	face (S7) (LRR R, MI	LRA 149B)					Other	r (Exp <b>l</b> ain ir	Remarks)	
				resent unle	ss disturbed	or probler	natic.			
Indicators of h	hydrophytic vegetation	and wetland	l hydrology must be p							
	hydrophytic vegetation	n and wetland	I hydrology must be p	reserit, ariie						
Restrictive La	nydrophytic vegetation	n and wetland	d hydrology must be p	Toothi, anio		,				
Restrictive La	ayer (if observed):	n and wetland		reseric, ariie						
Restrictive La	ayer (if observed):			recent, anno			Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):			reservi, unio				resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):			reservi, unio				resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):			reservi, unio				resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):			recent, unio		*		resent?	Yes X	_ No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	_ No
Restrictive La Type: Depth (inc	ayer (if observed):					*		resent?	Yes X	_ No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):			econ, une		*		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):					*		resent?	Yes X	No
te <b>strictive La</b> Type: Depth (inc	ayer (if observed):			econ, une		*		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):					*		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):					*		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	_ No
Restrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	_ No
estrictive La Type: Depth (inc	ayer (if observed):							resent?	Yes X	_ No



Wetland I - View facing east



Wetland I - Soils

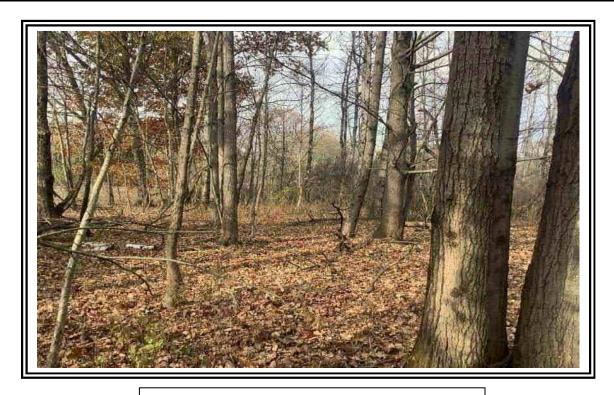
# Package 5

### **SITE PHOTOGRAPHS**

Project/Site:	Champlain Hu	dson Power Expres	ss C	ity/County: 1	New Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:	·	Kiewitt E	ngineering Group	·		State: New York Sampling Point:		WI-1U
Investigator(s):		MA, KC	<u> </u>	ection, Township, F			of New Scotland	
Landform (hillslope, te		Flat		f (concave, convex		none		(%): 0-3
Subregion (LRR or ML			Lat:					n: WGS 1984
Soil Map Unit Name:				42.00303230	Long	NWI classificati		1. 1700 1904
Are climatic / hydrolog				as V N	o (If no	NWI classificati , explain in Remark		
, ,			•			•	•	v No
Are Vegetation						cumstances" prese	<del></del>	X No
	, Soil,					ain any answers in	•	
SUMMARY OF FI	INDINGS - Atta	ich site map si	nowing sampl	ing point loca	tions, transed	cts, important	teatures, etc.	
Hydrophytic Vegeta	tion Present?	Yes	NoX	Is the Sa	mpled Area			
Hydric Soil Present	?	Yes	No X	within a	Wetland?	Yes	NoX	
Wetland Hydrology	Present?	Yes	No X	If yes, op	tional Wetland Sit	e ID:		_
Remarks: (Explain a	alternative procedur d point for PEM wet			I				
HYDROLOGY								
	. Indicators							
Wetland Hydrology			- 4 I- A			0	-1 /	
Primary Indicators (		quired; check all tha		(D6)			ators (minimum of t	wo requirea)
Surface Water	` '		Water-Stained L	` '			Cracks (B6)	
1 <del></del> -	High Water Table (A2) Aquatic Fauna (B13)						atterns (B10)	
Saturation (A3)	•		Marl Deposits (B	,		Moss Trim I	, ,	
Water Marks (E	•		Hydrogen Sulfide	, ,	)t- (O2)		Water Table (C2)	
Sediment Depo	` ,		<u>-</u> '	pheres on Living R	(00ts (C3)	Crayfish Bu	, ,	(00)
Drift Deposits (		_	Presence of Rec	` '	I- (OC)		Visible on Aerial Ima	
Algal Mat or Cr			•	uction in Tilled Soi	is (Co)		Stressed Plants (D1	')
Iron Deposits (	*	(DZ)	Thin Muck Surfa	, ,			c Position (D2)	
I <del></del>	ble on Aerial Image	· · · /	Other (Explain in	i Kemarks)		Shallow Aq	, ,	
Sparsely Vege	tated Concave Surf	ace (B8)					raphic Relief (D4)	
						FAC-Neutra	il lest (D5)	
Field Observations	s:							
Surface Water Pres	ent? Yes	No X	Depth (inches)	:				
Water Table Presen								
Saturation Present?					Wetland Hyd	Irology Present?	Yes	No X
(includes capillary fr				·				
(,								
Describe Recorded	Data (stream gaug	e, monitoring well,	aerial photos, prev	vious inspections),	if available:			
Remarks:								

Definitions of Vegetation Strata  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  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	Absolute   Dominant   Indicator   That Arr OBL, FACW, or FAC:   2	GETATION - Use scientific names of plants.				Sampling Point: WI-1U
Absolute   Dominant   Indicator   Species   Status   Courcuts nubra / Northern red calc   40   Yes   FACU   Faculty   Facult	Absolute   Species   Absolute   Species   Status					Dominance Test worksheet:
Absolute   Species   Absolute   Species   Status	Absolute   Species   Absolute   Species   Status					
Absolute   Sector	Abbolute   Species   Statum   Plot size:   30 Feet   Species   Species   Status   Species   Species   Species   Species   Status   Species   Spe					·
Total Number of Dominant   Species Across All Stratus   FACU   Species   Status   Total Number of Dominant   Species Across All Stratas   6 (B)   Phrus strobus / Eastern white pine	Species   Stratum   Plot size:   30 Feet   96 Cover   Species?   Status   40		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Duarcus rubra / Northern red cak	Description   Northern red coak   40   Yes   FACU   Species Across All Strata:   6   (8)	roe Stretum (Diet size) 20 Feet				
Privale   Priv	Privalence Index   Species Across All Strata;   G   (B)					Total Number of Dominant
Percent of Dominant Species   That Are OBL, FACW, or FAC:   33.3   (AV	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (AV    Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: Total % Cov	. Quercus rubra / Northern red oak	40	Yes	<u>FACU</u>	
Percent of Dominant Species   That Are OBL, FACW, or FAC:	Percent of Dominant Species   That Are OBL, FACW, or FAC: 33.3   (A)	. Pinus strobus / Eastern white pine	10	Yes	FACU	Species Across All Strata. (b)
Percent of Dominant Species   That Are OBL, FACW, or FAC:	Percent of Dominant Species   That Are OBL, FACW, or FAC:	·				
Prevalence Index worksheet:   Total % Cover of:   Multiply by:   OBL species   0	Prevalence Index worksheet:   Total % Cover of:   Multiply by:					Percent of Dominant Species
Prevalence Index worksheet:   Total % Cover of:   Multiply by:	Prevalence Index worksheet:   Total % Cover of:   Multiply by:	•				That Are OBL_FACW_or_FAC: 33.3 (A/I
Prevalence Index worksheet:   Total Worksheet:	Prevalence Index worksheet:   Total % Cover of:   Multiply by:   Total % Cover of:   Total % Cover of:   Stratum (Plot size:   15 Feet	·				111dt7110 OBE, 1710W, 011710.
Solidago gigantea   Stratum   (Plot size: 15 Feet   Faculty   Stratum   (Plot size: 30 Feet   Faculty   Faculty   Stratum   (Plot size: 30 Feet   Faculty   Facu	Total Cover					Duayalanaa laday warkabaati
apling/Shrub Stratum (Plot size:	So					
Appling/Shrub Stratum   (Plot size: 15 Feet   10   Yes   FAC   F	Appling/Shrub Stratum   (Plot size: 15 Feet   10   Yes   FAC   F	·				Total % Cover of: Multiply by:
Tree - Woody Plants 3 in. (7.6 cm) or more in diameter at breast height (Delt), regardless of hight.	Tree - Woody Plants 3 in. (7.6 cm) or more in diameter at breast height (Delt), regardless of hight.		50	_ = Total Cov	er	OBL species 0 x 1 = 0
Tree - Woody Plants 3 in. (7.6 cm) or more in diameter at breast height (DRH), regardless of hight.	Tree - Woody Plants 3 in. (7.6 cm) or more in diameter at breast height (DRH), regardless of hight.	apling/Shrub Stratum (Plot size: 15 Feet )				<u> </u>
FACU species   80   x 4 =   320	FACU species   80   x 4 =   320		10	Voe	FAC	
### Cody Vine Stratum (Plot size:	### Cody Vine Stratum (Plot size:			163		FAC species10 x 3 =30
Column Totals: 120 (A) 455 ( Prevalence Index = B/A = 3.79    10	Column Totals: 120 (A) 455 ( Prevalence Index = B/A = 3.79    Hydrophytic Vegetation Indicators:	· <del></del>				FACU species 80 x 4 = 320
Column Totals: 120 (A) 455 ( Prevalence Index = B/A = 3.79    10	Column Totals: 120 (A) 455 ( Prevalence Index = B/A = 3.79    Hydrophytic Vegetation Indicators:	·				
Prevalence Index = B/A = 3.79    Prevalence Index = B/A = 3.79	Prevalence Index = B/A = 3.79    Prevalence Index = B/A = 3.79					· — —
Prevalence Index = B/A = 3.79    Prevalence Index = B/A = 3.79	Prevalence Index = B/A = 3.79    Prevalence Index = B/A = 3.79		<del></del>			Column lotals: <u>120</u> (A) <u>455</u> (
10   = Total Cover   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%   2 - Dominance Test is >50%   3 - Prevalence Index \$3.0^{\text{total m (Plot size: 5 Feet )}}   15   Yes   UPL   3 - Prevalence Index \$3.0^{\text{total m (Plot size: 3.0^{\text{total m (Plot size: 5 Feet )}}   10   No   FACU   4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation   Problematic Hydrophytic Vegetation (Explain )   1   Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   Definitions of Vegetation Strata   Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   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 in height.   Woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation   Hydrophytic Vegetation   Hydrophytic Vegetation   No   Total Cover   Hydrophytic Vegetation   Hydrophytic Veget	10   = Total Cover   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%   2 - Dominance Test is >50%   3 - Prevalence Index \$3.0^{\text{total m (Plot size: 5 Feet )}}   15   Yes   UPL   3 - Prevalence Index \$3.0^{\text{total m (Plot size: 3.0^{\text{total m (Plot size: 5 Feet )}}   10   No   FACU   4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation   Problematic Hydrophytic Vegetation (Explain )   1   Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   Definitions of Vegetation Strata   Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   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 in height.   Woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation   Hydrophytic Vegetation   Hydrophytic Vegetation   No   Total Cover   Hydrophytic Vegetation   Hydrophytic Veget					
10   = Total Cover   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%   3 - Prevalence Index ≤3.0°   3 - Prevalence Index ≤3.0°   4 - Morphological Adaptations' (Provide supporting Problematic Hydrophytic Vegetation   4 - Morphological Adaptations' (Provide supporting Problematic Hydrophytic Vegetation)   1 - No   FACU   1 - Morphological Adaptations' (Provide supporting Problematic Hydrophytic Vegetation)   1 - No   FACU   2 - Dominance Test is >50%   3 - Prevalence Index ≤3.0°   4 - Morphological Adaptations' (Provide supporting Problematic Hydrophytic Vegetation)   1 - No   FACU   Problematic Hydrophytic Vegetation   (Explain )   1 - No   FACU   Problematic Hydrophytic Vegetation   1 - No   Tree - Woody plants disturbed or problematic.   Definitions of Vegetation Strata   Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/shrub - Woody plants less than 3 in. DBH and greater than 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   Hy	10   = Total Cover   Hydrophytic Vegetation Indicators:				_,	Prevalence Index = B/A = 3.79
Total Coverage   Total Coverage   Hydrophytic Vegetation Indicators:   1- Rapid Test for Hydrophytic Vegetation   1- Rapid Test for Hydrophytic Vegetati	Total Coverage   Total Coverage   Hydrophytic Vegetation Indicators:   1- Rapid Test for Hydrophytic Vegetation   1- Rapid Test for Hydrophytic Vegetati	· ·				
erb Stratum (Plot size: 5 Feet )  Rubus / Blackberry  Rosa multiflora / Multiflora rose, M	erb Stratum (Plot size: 5 Feet )  Rubus / Blackberry  Rosa multiflora / Multiflora rose, M	· <del></del>		- Total Cox		Hydronhytic Vegetation Indicators:
Rubus / Blackberry       20       Yes       FACU       2 - Dominance Test is >50%         Fragaria vesca / Wild strawberry, Wood strawberry       15       Yes       UPL       3 - Prevalence Index ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain )         Rosa multiflora / Multiflora rose, Multiflora rose       10       No       FACU       Problematic Hydrophytic Vegetation¹ (Explain )         ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.       Definitions of Vegetation Strata         Definitions of Vegetation Strata       Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.       Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.         Woody vines - All woody vines greater than 3.28 ft in height.       Hydrophytic         Vegetation	Rubus / Blackberry       20       Yes       FACU       2 - Dominance Test is >50%         Fragaria vesca / Wild strawberry, Wood strawberry       15       Yes       UPL       3 - Prevalence Index ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain )         Rosa multiflora / Multiflora rose, Multiflora rose       10       No       FACU       Problematic Hydrophytic Vegetation¹ (Explain )         ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.       Definitions of Vegetation Strata         Definitions of Vegetation Strata       Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.       Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.         Woody vines - All woody vines greater than 3.28 ft in height.       Hydrophytic         Vegetation			TOTAL COV	GI	1
Fragaria vesca / Wild strawberry, Wood strawberry  Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  11 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  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	Fragaria vesca / Wild strawberry, Wood strawberry  Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  11 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  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	erb Stratum (Plot size: <u>5 Feet</u> )				1 - Rapid Test for Hydrophytic Vegetation
Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  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	Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  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	. Rubus / Blackberry	20	Yes	FACU	2 - Dominance Test is >50%
Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  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	Solidago gigantea / Smooth goldenrod  Rosa multiflora / Multiflora rose, Multiflora rosa  10 No FACU  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  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	Fragaria vesca / Wild strawberry Wood strawberry	15	Ves	LIPI	3 - Prevalence Index <3 01
Rosa multiflora rose, Multiflora rose, Multiflora rosa  10 No FACU 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.  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 in height.  O = Total Cover  Hydrophytic Vegetation	Rosa multiflora rose, Multiflora rose, Multiflora rosa  10 No FACU 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.  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 in height.  O = Total Cover  Hydrophytic Vegetation					<del></del>
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Coody Vine Stratum   (Plot size: 30 Feet   3	Coody Vine Stratum   (Plot size: 30 Feet   3	<u> </u>			<del></del>	Sanling/shrub - Woody plants less than 3 in DRH and
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0 = Total Cover Hydrophytic Vegetation	0 = Total Cover Hydrophytic Vegetation					neight.
Hydrophytic Vegetation	Hydrophytic Vegetation	•		= Total Cox		
Vegetation	Vegetation				er	Hydrophytic
Present? Yes No X	Present?         Yes          No         X					
						Present?         Yes         No         X
emarks: (Explain alternative procedures here or in a separate report.)						
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SOIL Sampling Point: WI-1U 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) Type<sup>1</sup> Texture Remarks 10YR 2/2 Silt Loam 0-2 100 100 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) <sup>3</sup>Indicators 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 I - View facing southwest** 



**Upland I - Soils** 

Package 5

**SITE PHOTOGRAPHS** 

Project/Site:	Champlain Hu	dson Power Expres	s City/Cou	unty: Ne	w Scotland, Alba	any County.	Sampling Date:	11/09/2021
Applicant/Owner:	·	Kiewitt Er	ngineering Group	<u> </u>	Sta	ate: New York	Sampling Point:	WH-1W
Investigator(s):		MA, KC	Section,	Township, Rai	_		n of Scotland	
Landform (hillslope, teri	race, etc):	Lowland	Local relief (cond			concave	Slope	(%): 0-3
Subregion (LRR or MLF	RA):	LRR R		.60309433	Long:	-73.894129	17 Datum	n: WGS 1984
Soil Map Unit Name:			Scio silt loam		<u> </u>	NWI classificati	on:	
Are climatic / hydrologic	conditions on the	site typical for this	time of year? Yes	X No	(If no,	- explain in Remarl	ks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	ed? /	Are "Normal Circ	cumstances" pres	ent? Yes X	( No
Are Vegetation					If needed, expla	ain any answers ir	Remarks.)	
SUMMARY OF FIN					ons, transec	ts, important	features, etc.	
Hydrophytic Vegetati	on Present?	Yes X	_ No	Is the Samp	oled Area	•	·	
Hydric Soil Present?		Yes X	 No	within a We		Yes X	No	
Wetland Hydrology P		Yes X	No	1		) ID:		<del>-</del>
Remarks: (Explain al	Iternative procedur	res here or in a sepa	arate report.)					
Identified as	Wetland E	DR-H on we	tland mapping	and in re	port text.			
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	ninimum of one rec	quired; check all tha	t apply)			Secondary Indic	ators (minimum of to	wo required)
Surface Water (	A1)	Х	Water-Stained Leaves	(B9)			il Cracks (B6)	
High Water Tabl	ie (A2)		Aquatic Fauna (B13)			Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim	Lines (B16)	
Water Marks (B	1)		Hydrogen Sulfide Odor	r (C1)		Dry-Seasor	n Water Table (C2)	
Sediment Depos	sits (B2)	<u>X</u>	Oxidized Rhizospheres	s on Living Roo	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (E	33)	_	Presence of Reduced	Iron (C4)		Saturation	Visible on Aerial Ima	igery (C9)
Algal Mat or Cru			Recent Iron Reduction		(C6)		Stressed Plants (D1	)
Iron Deposits (B	•		Thin Muck Surface (C7	•			c Position (D2)	
l <del></del>	le on Aerial Image	· · · · —	Other (Explain in Rema	arks)		Shallow Aq	, ,	
Sparsely Vegeta	ated Concave Surf	face (B8)					raphic Relief (D4)	
						X FAC-Neutra	al Test (D5)	
Field Observations:								
Surface Water Prese	nt? Yes	NoX	Depth (inches):					
Water Table Present	? Yes	No X	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hydi	rology Present?	Yes X	No
(includes capillary fri	nge)							
Describe Recorded D	Data (stream gaug	e monitoring well a	erial photos, previous ir	nspections) if a	available:			
Doodribo (Coordod E	zata (otrodin gaag	o, morntoning won, c	ional photos, providuo ii	opodiono, n	avanasio.			
Remarks:								

				Sampling Point: <u>WH-1W</u>
				Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC: 4 (A)
	Absolute	Dominant	Indicator	(/)
Tree Stratum (Plot size: 30 Feet )	% Cover	Species?	Status	Total Number of Dominant
1. Quercus bicolor / Swamp white oak	<u>20</u> 10	Yes	FACU	Species Across All Strata: 5 (B)
2. Quercus rubra / Northern red oak		Yes	FACU	
3. 4.				Percent of Dominant Species
		-		That Are OBL, FACW, or FAC: 80.0 (A/B)
5 6				Dravalance Index weaksheet
7.				Prevalence Index worksheet:  Total % Cover of: Multiply by:
	30	= Total Cov	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:15 Feet)		_		FACW species 110 x 2 = 220
1. Cornus alba / Red osier	25	Yes	FACW	FAC species 0 x 3 = 0
2.				FACU species 15 x 4 = 60
3.		_		UPL species 0 x 5 = 0
4				Column Totals: 125 (A) 280 (B)
5				
6				Prevalence Index = B/A = 2.24
7		- Total Co		Under the Manager Indiantons
Herb Stratum (Plot size: 5 Feet )	25	_ = Total Cov	er	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 Feet )  1. Onoclea sensibilis / Sensitive fern	50	Yes	FACW	X 2 - Dominance Test is >50%
2. Solidago gigantea / Smooth goldenrod		Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Rosa multiflora / Multiflora rose, Multiflora rosa		No	FACU	4 - Morphological Adaptations¹ (Provide supporting
			17.00	Problematic Hydrophytic Vegetation¹ (Explain )
5.				
ŝ.			- (	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		_		
Woody Vine Stratum (Plot size: 30 Feet )	70	_ = Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1.		-		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
4.				height.
	0	= Total Cov	er	Hardwards 4th
		_		Hydrophytic Vegetation Present?  Yes X No

SOIL Sampling Point: WH-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Type<sup>1</sup> Loc2 (inches) Color (moist) Texture Remarks 10YR 4/1 98 10YR 4/6 PL0-18 С Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) X Depleted Matrix (F3) Stratified Layers (A5) 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) <sup>3</sup>Indicators 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:



Wetland EDR-H (PFO) - View facing southeast.



Wetland EDR-H (PFO) - Soils

Segment 8 – Package 5A

**SITE PHOTOGRAPHS** 

Project/Site:	Champlain Hu	dson Power Expre	ss City/C	ounty: Ne	ew Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:		Kiewitt F	Engineering Group		St	ate: New York	Sampling Point:	WH-2W
Investigator(s):		MA, KC		n, Township, Ra			of New Scotland	
Landform (hillslope, te	rrace etc).	Lowland		ncave, convex,		concave		e (%): 0-3
Subregion (LRR or ML				2.60292283				m: WGS 1984
Soil Map Unit Name:				2.00202200	Long	NWI classificati		III
			s time of year? Yes	Y No.	(If no	_		
, ,		J.	significantly distur		` '	cumstances" pres	,	X No
						•		NO
			naturally problema			ain any answers in		
SUMMARY OF FI	NDINGS - Atta	ach site map s	howing sampling	point locati	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegeta	tion Present?	Yes X	No	Is the Sam	pled Area			
Hydric Soil Present?	?	Yes X	No	within a W	etland?	Yes X	No	
Wetland Hydrology	Present?	Yes X	No	If yes, option	onal Wetland Site	e ID:	WH-2W PSS	
<u> </u>	oint for wetland H a	adjacent to railroad	and industrial area.					
Identified as	Wetland El	JR-H on we	tland mapping	and in rep	oort			
HYDROLOGY								
	. Indicators							
Wetland Hydrology	•		- 4 L A			0	-4 /!!	
Primary Indicators (			,	- (DO)			ators (minimum of t	.wo requirea)
Surface Water	` '	<u> </u>	_ Water-Stained Leave	` '			il Cracks (B6)	
X High Water Tab	,	_	_ Aquatic Fauna (B13)				atterns (B10)	
X Saturation (A3)	,	_	Marl Deposits (B15)	I (O4)			Lines (B16)	
Water Marks (E	,	_	_ Hydrogen Sulfide Od	, ,	. (00)		Water Table (C2)	
Sediment Depo		_	Oxidized Rhizospher	-	ots (C3)	Crayfish Bu	, ,	(00)
Drift Deposits (		_	Presence of Reduce	` ,	(00)		Visible on Aerial Im	
Algal Mat or Cr		_	Recent Iron Reduction		(C6)		Stressed Plants (D	1)
Iron Deposits (I	,		Thin Muck Surface (				c Position (D2)	
I —	ble on Aerial Image	- · · · · —	Other (Explain in Re	narks)		Shallow Aq	, ,	
Sparsely Veget	tated Concave Sur	face (B8)					raphic Relief (D4)	
						X FAC-Neutra	al Test (D5)	
Field Observations								
Surface Water Pres		No V	Donth (inches):					
			Depth (inches):	9				
Water Table Present			Depth (inches):	0	Mottonal Head		Vaa V	N.a.
Saturation Present?		s <u>X</u> No	Depth (inches):		wetiand Hyd	rology Present?	Yes X	No
(includes capillary fr	inge)							
Describe Recorded	Data (stream gauc	re monitoring well	aerial photos, previous	inspections) if	available.			
Document (Coorded	Data (or oam gaag	jo, monitoring won,	donal priotos, proviodo	поросионо, п	availabio.			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: WH-2W
·				Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC: 3 (A)
Total Objections (Dietoines 20 Foots)	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 Feet )	% Cover	Species?	Status	Total Number of Dominant
1.			<del>-</del>	Species Across All Strata: 3 (B)
2.		_	<del></del>	
3				Percent of Dominant Species
4		_		That Are OBL, FACW, or FAC: 100.0 (A/B)
5				
6			<del>-</del>	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	_ = Total Cov	er	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 Feet )				FACW species 80 x 2 = 160
1. Cornus racemosa / Gray dogwood	40	Yes	FAC	FAC species 40 x 3 = 120
2. Cornus alba / Red osier	15	Yes	FACW	FACU species 15 x 4 = 60
3. Lonicera morrowii / Morrow's honeysuckle	10	No	FACU	UPL species 10 x 5 = 50
4				Column Totals: 145 (A) 390 (B)
5				
6				Prevalence Index = B/A = 2.69
7.				2.00
	65	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 Feet )		_		1 - Rapid Test for Hydrophytic Vegetation
1. Onoclea sensibilis / Sensitive fern	50	Yes	FACW	X 2 - Dominance Test is >50%
2. Solidago gigantea / Smooth goldenrod	15	No	FACW	X 3 - Prevalence Index ≤3.0¹
3. Epilobium / Willowherb	10	No No	NI	4 - Morphological Adaptations¹ (Provide supporting
4. Lonicera morrowii / Morrow's honeysuckle		No	FACU	Problematic Hydrophytic Vegetation¹ (Explain )
				<u> </u>
5. 6			<del>-</del>	¹Indicators of hydric soil and wetland hydrology must
6		_	<del>-</del>	be present, unless disturbed or problematic.
7. 8.				be present, unless distarsed or presiding in
0				Definitions of Vegetation Strata
10 11.			<del></del>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			<del></del>	breast height (DBH), regardless of height.
12	80	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Weeds Vine Stratum (Diet size) 20 Feet		_ = 10tal Cov	ei	greater than or equal to 3.28 ft (1 m) tall.
Woody 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				Woody vines - All woody vines greater than 3.28 ft in
3.		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present?         YesX No
				100 <u>X</u> 100
Remarks: (Explain alternative procedures here or in a separa	te report.)			
Tromanic. (Explain altornauve procedures note of in a separa	то торота,			

SOIL

Sampling Point: WH-2W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

Depth	 Matrix	•	Redox	Features				•	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks
0-9	10YR 4/1	100					Clay		
9-18	10YR 4/1	95	10YR 5/4	5			Clay		_
0 10	1011(-1/1		10111 0/4		<u> </u>		Olay		-
	-	. ———							
		<u> </u>							
		·							
									_
		· <u></u>							
			,						
¹Type: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ced Sand Gra	ains.	_	²Locat	ion: PL=P	ore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric Soils³:
Histosol			Polyvalue Below	Surface (SS	8) (I <b>DD D I</b>	MI DA 1/0			) (LRR K, L, MLRA 149B)
			Thin Dark Surface	•			· —		
	ipedon (A2)					1496)			edox (A16) (LRR K, L, R)
Black His			Loamy Mucky M		LKK K, L)			-	at or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)
	Layers (A5)		X Depleted Matrix						Surface (S8) (LRR K, L)
Depleted	l Below Dark Surface (	A11)	Redox Dark Sur				Thin D	ark Surfac	ce (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-M	langanese	Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedm	ont Flood	olain Soils (F19) <b>(MLRA 149B)</b>
Sandy G	leyed Matrix (S4)						Mesic	Spodic (Ta	A6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red P	arent Mate	erial (F21)
	Matrix (S6)								ırk Surface (TF12)
	face (S7) (LRR R, MI	LRA 149B)							Remarks)
	(3.) (2							(=×,p1«	, r.c.marne,
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	acant unlac	e dieturhed	or problem	atic		
Indicators of	Trydrophlytic vegetation	i and welland	Thydrology must be pi	Cocrit, urileo	3 disturbed	or problem	atio.		
Restrictive L	ayer (if observed):								
Type:	,								
Depth (inc	hee).						Hydric Soil Pr	acant?	Yes X No
Doptii (iiit							Tiyano Gon Ti	COCIII.	100 <u>X</u> 110
Remarks:									



Wetland H - View facing northwest



Wetland H - Soils

Package 5

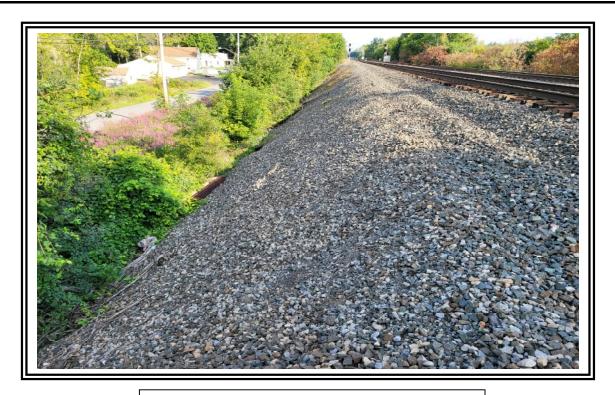
**SITE PHOTOGRAPHS** 

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain H	ludson Power Expres	ss Cit	y/County:	New Scotland, Alk	bany County.	Sampling Date:	11/09/2021
Applicant/Owner:			Engineering Group	<u></u>		tate: New York	_	WH-1U
Investigator(s):		MA, KC	Se	ction, Township,			New Scotland	
Landform (hillslope, te	rrace, etc):	Flat	Local relief	(concave, conve	ex, none):	none	Slope	· (%): 0-3
Subregion (LRR or ML	RA):	LRR R		42.6031254			35 Datun	m: WGS 1984
Soil Map Unit Name:			Scio silt loam			NWI classification	on:	
Are climatic / hydrolog	ic conditions on t	he site typical for this	s time of year? Yes	1 X z	Vo (If no	 , explain in Remark	(s.)	
Are Vegetation					Are "Normal Cir	rcumstances" prese	ent? Yes	X No
Are Vegetation					(If needed, expl	lain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - At	tach site map s	howing sampli	ng point loca	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetat	tion Present?	Yes	No X	Is the Sa	ampled Area			
Hydric Soil Present?		Yes			Wetland?	Yes	NoX	
Wetland Hydrology		Yes	No X	l l		te ID:		_
,								
		lures here or in a sep ne PSS and PFO we		nd H.				
HYDROLOGY								
Wetland Hydrology	/ Indicators:							
	•	equired; check all th	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water		- 4	Water-Stained Le	aves (B9)			l Cracks (B6)	
High Water Tab	` '		- Aquatic Fauna (B	` '		—	atterns (B10)	
Saturation (A3)	. ,			Moss Trim L	, ,			
Water Marks (E				Dry-Season Water Table (C2)				
Sediment Depo	•		Roots (C3)	Crayfish Bu				
Drift Deposits (			Presence of Redu	ū	(,		/isible on Aerial Ima	agerv (C9)
Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Stunted or Stressed Plants of Treasured Treatment (C4)								
Iron Deposits (I			Thin Muck Surfac		( ,		Position (D2)	• ,
I — ' '	ble on Aerial Ima	 aerv (B7)	Other (Explain in	, ,		Shallow Aqu	` '	
l —	tated Concave Su	<del>-</del>		,			aphic Relief (D4)	
		( ,				FAC-Neutra		
Field Observations		- N- V	Death (back as)					
Surface Water Prese		es NoX	_ ' ' '		-			
Water Table Present		es No X			-		.,	
Saturation Present?		es NoX_	Depth (inches):		.   Wetland Hyd	drology Present?	Yes	No <u>X</u>
(includes capillary fr	inge)							
Describe Recorded	Data (stream gau	uge, monitoring well,	aerial photos, previ	ous inspections)	. if available:			
	( 5	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,				
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC: 2 (A)
ree Stratum (Plot size: 30 Feet )	% Cover	Species?	Status	
Quercus rubra / Northern red oak	40	Yes	FACU	Total Number of Dominant
Pinus strobus / Eastern white pine	10	Yes	FACU	Species Across All Strata: 6 (B)
		_		Percent of Dominant Species
		_		That Are OBL, FACW, or FAC: 33.3 (A/I
		_		That Ale OBE, I AGW, OF AG (A
-				Prevalence Index worksheet:
<u></u>	_			Total % Cover of: Multiply by:
	50	_ = Total Cov	er	OBL species 0 x 1 = 0
apling/Shrub Stratum (Plot size: 15 Feet )				FACW species 15 x 2 = 30
Cornus racemosa / Gray dogwood	10	Yes	<u>FAC</u>	FAC species 10 x 3 = 30
·				FACU species 80 x 4 = 320
·				UPL species15 x 5 =75
•				Column Totals: 120 (A) 455 (
-				
•				Prevalence Index = B/A = 3.79
•				
	10	_ = Total Cov	er	Hydrophytic Vegetation Indicators:
lerb Stratum (Plot size: 5 Feet )				1 - Rapid Test for Hydrophytic Vegetation
Rubus / Blackberry		Yes	<u>FACU</u>	2 - Dominance Test is >50%
. Solidago gigantea / Smooth goldenrod	15	Yes	FACW	3 - Prevalence Index ≤3.0¹
3. Fragaria vesca / Wild strawberry, Wood strawberry	15	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
. Rosa multiflora / Multiflora rose, Multiflora rosa	10	No No	<u>FACU</u>	Problematic Hydrophytic Vegetation¹ (Explain )
i				
). -				¹Indicators of hydric soil and wetland hydrology must
· .				be present, unless disturbed or problematic.
	_			Definitions of Vegetation Strata
	_			Definitions of Vegetation Strata
0	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1	_			breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 M 20 1 (D) 4 1 20 5 1	60	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size:30 Feet)				Herb - All herbaceous (non-woody) plants, regardless of
•				size, and woody plants less than 3.28 ft tall.
<u>.</u>		_		Woody vines - All woody vines greater than 3.28 ft in
		-		height.
l				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present?         Yes         No         X

SOIL Sampling Point: WH-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Loc<sup>2</sup> (inches) Color (moist) Type<sup>1</sup> Texture Remarks 2.5Y 3/1 0-18 100 Clay Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) <sup>3</sup>Indicators 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 EDR-H - View facing south.



**Upland EDR-H - Soils** 

Segment 8 – Package 5A

# **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 Bu	sh/Albany	Sampling Date: 10/21/22		
Applicant/Owner: TDI			State: NY	Sampling Point: Wet P5A-B		
Investigator(s): C.Scrivner & C. Einstein		Section, Town	nshin Range			
Landform (hillside, terrace, etc.): Slight Depressio	n Local roliof	(concave, convex,		Slope %: 1		
· · · · · · · · · · · · · · · · · · ·						
	Lat: 42.59629° N	Long: -	73.88727° W	Datum: WGS 84		
Soil Map Unit Name: HuB: Hudson silt loam, 3 to 8	percent slopes		NWI classification:	PFO1		
Are climatic / hydrologic conditions on the site typical	for this time of year?	Yes x	No (If no, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Norma	I Circumstances" prese	nt? Yes x No		
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach site	map showing samplir	ng point locati	ons, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present? Yes	X No Is	the Compled Area				
		the Sampled Area ithin a Wetland?	Yes X	No		
Wetland Hydrology Present? Yes			and Site ID: Near flag			
<u> </u>		yoo, optional would	110 010 12. 110ar 11ag	10/12/		
Remarks: (Explain alternative procedures here or in Palustrine forested wetland. Red-maple hardwoods						
Talasamo forestea wellana. Nea maple harawood e	swamp.					
HYDROLOGY						
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (m	inimum of two required)		
Primary Indicators (minimum of one is required; che	eck all that apply)		Surface Soil Cracks	(B6)		
Surface Water (A1)	Vater-Stained Leaves (B9)		Drainage Patterns (I	B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	_	Crayfish Burrows (C	8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv	ring Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)		
<del></del>	Presence of Reduced Iron (Ca	<i>'</i>		_Stunted or Stressed Plants (D1)		
<u> </u>	Recent Iron Reduction in Tille	ed Soils (C6)	X Geomorphic Position	,		
<del></del>	Thin Muck Surface (C7)	_	Shallow Aquitard (D	•		
<del></del>	Other (Explain in Remarks)	_	Microtopographic Ro	, ,		
Sparsely Vegetated Concave Surface (B8)			X FAC-Neutral Test (D	15)		
Field Observations:						
	X Depth (inches):					
	X Depth (inches): X Depth (inches):	— Wetland	Hydrology Present?	Yes X No		
(includes capillary fringe)	Deptil (illicites).	Welland	nyurology Fresent:	165 <u>× NO</u>		
Describe Recorded Data (stream gauge, monitoring	well aerial photos previous	s inspections) if av	ailahle			
Boombo Noordou Bata (otroam gaage, momtering	y won, donar priotos, proviodo	s mopostione), ii av	anabio.			
Remarks:						

### **VEGETATION** – Use scientific names of plants.

<b>/EGETATION</b> – Use scientific names of pla	เกเร.			Sampling Point: Wet P5A-B			
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Acer rubrum	65	Yes	FAC	Number of Dominant Species			
2. Quercus bicolor	5	No	FACW	That Are OBL, FACW, or FAC: 7 (A)			
3. Fraxinus pennsylvanica	5	No	FACW	Total Number of Dominant			
4. Quercus alba	3	No	FACU	Species Across All Strata: 7 (B)			
5. Rhamnus cathartica	2	No	FAC	Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.				Prevalence Index worksheet:			
	80	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 3 x 1 = 3			
1. Cornus racemosa	15	Yes	FAC	FACW species 25 x 2 = 50			
2. Rhamnus cathartica	15	Yes	FAC	FAC species 137 x 3 = 411			
3. Lonicera morrowii	8	No	FACU	FACU species 44 x 4 = 176			
4. Rosa multiflora	8	No	FACU	UPL species 0 x 5 = 0			
5.				Column Totals: 209 (A) 640 (B)			
6.				Prevalence Index = B/A = 3.06			
7.		<u> </u>		Hydrophytic Vegetation Indicators:			
	46	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%			
1. Microstegium vimineum	20	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Solidago gigantea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Euthamia graminifolia	10	Yes	FAC	data in Remarks or on a separate sheet)			
4. Cornus racemosa	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Solidago canadensis	8	No	FACU	<del></del>			
6. Rosa multiflora	8	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Lonicera morrowii	5	No	FACU	Definitions of Vegetation Strata:			
8. Carex lupuliformis	3	No	OBL				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10.							
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.		<u> </u>		and greater than or equal to 0.20 it (1 iii) tail.			
12.	79	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')		= Total Cover		of size, and woody plants less than 3.20 it tall.			
· · · · · · · · · · · · · · · · · · ·	2	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in			
				height.			
2. Celastrus orbiculatus	2	<u>No</u>	FACU	Hydrophytic			
3		<del></del>		Vegetation			
4		Tatal O		Present? Yes X No No			
	4	=Total Cover					

**SOIL** Sampling Point: Wet P5A-B

Profile Descripe	ription: (Describe to Matrix	the dep		ment the x Feature		tor or co	nfirm the absence of	indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-9	10YR 2/1	100			71 -		Loamy/Clayey				
			40VD 5/0					December of modes and accommodation			
9-19	10YR 5/2	65	10YR 5/6	25	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations			
			10YR 5/1	10	D	M					
				,							
-											
	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		L=Pore Lining, M=Matrix.			
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :			
Histosol (	, ,		Dark Surface (		- (00) (1	DD D		ck (A10) (LRR K, L, MLRA 149B)			
	Histic Epipedon (A2)  Black Histic (A3)  Polyvalue Below Surface (S8) (LRR R  MLRA 149B)					LKK K,		rairie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
Hydrogen Sulfide (A4)  Thin Dark Surface (S9) (LRR R, MLRA				MLRA 1		e Below Surface (S8) (LRR K, L)					
	Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Mucky I					nganese Masses (F12) (LRR K, L, R)			
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	<del>-</del> 2)		Piedmon	it Floodplain Soils (F19) ( <b>MLRA 149B</b>			
Mesic Sp	odic (A17)		X Depleted Matrix	x (F3)			Red Pare	ent Material (F21) (outside MLRA 14			
-	A 144A, 145, 149B)		Redox Dark Su					allow Dark Surface (F22)			
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)			
	eyed Matrix (S4)		Redox Depress	,	3)		<sup>3</sup> Indicate	ro of hydrophytic vogototicn and			
Sandy Re	Matrix (S6)		Marl (F10) (LR) Red Parent Ma		21) <b>(MI R</b>	Δ 145)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,				
	WidthX (OO)		Red r drent wa	torial (1 2	- 1 / <b>(1411-</b> 11	140)		disturbed or problematic.			
Restrictive L	ayer (if observed):						<u></u>	aleta. sea e. p. es. e. mane.			
Type:											
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No			
Remarks:											



Wetland P5A-B - View facing southeast



Wetland P5A-B - Soils

Segment 8 – Package 5A

**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 Bush/Albany Sampling Date: 10/21/22
Applicant/Owner: TDI	State: NY Sampling Point: Upl P5A-B
Investigator(s): C.Scrivner & C. Einstein	Section, Township, Range:
	al relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42.59669° N	Long: -73.88751° W Datum: WGS 84
Soil Map Unit Name: HuB: Hudson silt loam, 3 to 8 percent slopes	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly dist	· · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally probler	<del></del> -
<del></del>	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X  Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Northern hardwood forest	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	s (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odo	or (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphere	es on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	narks)Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches	
Water Table Present? Yes No _X Depth (inches	
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	
remains.	

### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	45	Yes	FACU	
2. Acer rubrum	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. Quercus alba	8	No	FACU	
4.				Total Number of Dominant Species Across All Strata: 9 (B)
5		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 44.4% (A/B)
7.				Prevalence Index worksheet:
	73	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 0 x 1 = 0
Rhamnus cathartica	10	Yes	FAC	FACW species 0 x 2 = 0
Lonicera morrowii	5	Yes	FACU	FAC species 53 x 3 = 159
3.				FACU species 79 x 4 = 316
4.				UPL species 0 x 5 = 0
5				Column Totals: 132 (A) 475 (B)
6				Prevalence Index = B/A = 3.60
7				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )	-10	-10101 00101		2 - Dominance Test is >50%
Toxicodendron radicans	15	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Cornus racemosa	8	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lonicera morrowii	8	Yes	FACU	data in Remarks or on a separate sheet)
4. Rosa multiflora	8	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.		103	1700	_
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All barbassas (non woods) plants regardless
	39	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		Mandanina Allunada urina arasta than 2 00 ft in
Celastrus orbiculatus	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes No X
4.				
4	5	=Total Cover		

Sampling Point:

Upl P5A-B

SOIL Sampling Point: Upl P5A-B

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>ument th</b> ox Featur		tor or co	nfirm the absence of in	dicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks	
0-10	10YR 4/2	100					Loamy/Clayey			
10-15	10YR 5/3	90	10YR 4/6	10	С	M	Sandy	Distinct redox co	oncentrations	
10 10	10111 0/0		1011(4/0				Garlay	Distinct redox of	SHOCHITATIONS	
				. —						
	-									
									-	
1							2			
Hydric Soil I	ncentration, D=Deple	etion, RM	1=Reduced Matrix, N	/IS=Mask	ed Sand	Grains.		Pore Lining, M=Ma Problematic Hydr		
Histosol			Dark Surface	(S7)				(A10) (LRR K, L,		
	ipedon (A2)		Polyvalue Beld	` '	ce (S8) (I	LRR R,		rie Redox (A16) ( <b>LI</b>		
Black His	. , ,		MLRA 149E		, , ,	,		xy Peat or Peat (S3)		
Hydrogen Sulfide (A4)			Thin Dark Sur	face (S9)	(LRR R	, MLRA 1	<b>49B</b> ) Polyvalue	Below Surface (S8)	(LRR K, L)	
Stratified	Layers (A5)		High Chroma	Sands (S	11) (LRF	R K, L)	Thin Dark	Surface (S9) (LRR	K, L)	
	Below Dark Surface	(A11)	Loamy Mucky	Mineral (	(F1) ( <b>LR</b> F	R K, L)		anese Masses (F12		
	rk Surface (A12)		Loamy Gleyed	•	F2)			Floodplain Soils (F1		
	oodic (A17)		Depleted Matr		·o)			nt Material (F21) <b>(o</b> u		
•	A 144A, 145, 149B)		Redox Dark S  Depleted Dark					ow Dark Surface (F blain in Remarks)	22)	
	ucky Mineral (S1) leyed Matrix (S4)		Redox Depres				Other (Exp	nain in Remarks)		
	edox (S5)		Marl (F10) (LF	,	3)		<sup>3</sup> Indicators of hydrophytic vegetation and			
	Matrix (S6)		Red Parent M		21) <b>(MLF</b>	RA 145)	wetland hydrology must be present,			
							unless d	listurbed or problem	natic.	
Restrictive L	ayer (if observed):									
Type:	Roc	k								
Depth (in	nches):	15					Hydric Soil Present?	? Yes	No X	
Remarks:							•			



Upland P5A-B - View facing east



**Upland P5A-B - Soils** 

Segment 8 – Package 5A

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Hu	dson Power Expre	ss Cit	ty/County:	New Scotland, All	bany County.	Sampling Date:	11/09/2021
Applicant/Owner:	·	Kiewitt I	Engineering Group		S	tate: New York	Sampling Point:	WG-1W
Investigator(s):		MA, KC	Se	ection, Township	, Range:	Town	of New Scotland	
Landform (hillslope, te	rrace, etc):	Floodplain			ex, none):	concave	Slope	(%): 0-3
Subregion (LRR or ML			Lat:			-73.886601	91 Datun	n: WGS 1984
Soil Map Unit Name:	· -		Hudson silt loam			NWI classificati	on: Ri	verine
Are climatic / hydrologi	ic conditions on the	site typical for thi			No (If no	 , explain in Remarl	ks.)	
Are Vegetation	, Soil	, or Hydrology	significantly di	sturbed?	Are "Normal Ci	rcumstances" pres	ent? Yes >	X No
			naturally probl			lain any answers ir	Remarks.)	
SUMMARY OF FI						cts, important	features, etc.	
Hydrophytic Vegetat	tion Present?	Yes X	No	Is the S	Sampled Area	•	•	
Hydric Soil Present?		Yes X		1	a Wetland?	Yes X	No	
Wetland Hydrology I		Yes X	No	1	optional Wetland Si			=
	vetland located long	g Stream B at the b	pase of a steep slop					
Identified as	Wetland Et	DR-G on we	tland mappi	ng and in	report text.			
HYDROLOGY								
Wetland Hydrology	/ Indicators:							
Primary Indicators (r	•	guired: check all th	at apply)			Secondary Indic	ators (minimum of t	wo required)
X Surface Water	(A1)	X	Water-Stained Le	eaves (B9)			il Cracks (B6)	
High Water Tab	ole (A2)		- Aquatic Fauna (B	313)		Drainage P	atterns (B10)	
Saturation (A3)	)		Marl Deposits (B	15)		Moss Trim	Lines (B16)	
Water Marks (E	31)	X	Hydrogen Sulfide	Odor (C1)		Dry-Seasor	n Water Table (C2)	
Sediment Depo	osits (B2)	<u> </u>	Oxidized Rhizosp	oheres on Living	Roots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (	B3)		Presence of Red	uced Iron (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Cr	ust (B4)	_	Recent Iron Redu	uction in Tilled S	Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (F	•		_ Thin Muck Surfac	, ,			c Position (D2)	
<del></del>	ble on Aerial Image	- · · · —	Other (Explain in	Remarks)		Shallow Aq	, ,	
Sparsely Veget	tated Concave Surf	face (B8)					raphic Relief (D4)	
						FAC-Neutra	al Test (D5)	
Field Observations								
Surface Water Prese	ent? Yes	X No	Depth (inches):	0.5				
Water Table Present	t? Yes	No X	Depth (inches):		_			
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hy	drology Present?	Yes X	No
(includes capillary fr	inge)		<del>_</del>		_			<u></u>
					\			
Describe Recorded	Data (stream gaug	e, monitoring well,	aeriai photos, previ	ious inspections	s), if available:			
Remarks:								
I								

,				Dominion To at whale and			
,				Dominance Test worksheet:			
,				Number of Dominant Species			
•	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:		3	_ (A)
ee Stratum (Plot size: 30 Feet )	% Cover	Species?	Status				
	70 COVE			Total Number of Dominant			
Prunus serotina / Black cherry	10	Yes	FACU	Species Across All Strata:		5	(B)
							_ ` ′
				Percent of Dominant Species			
				That Are OBL, FACW, or FAC:		60.0	/ A /I
				That Are OBL, FACW, or FAC.	-	00.0	_ (A/
		- '-		Prevalence Index worksheet:			
		-		Total % Cover of:	N.A	Itiply by:	
	10	= Total Cov	er			Itiply by:	
pling/Shrub Stratum (Plot size: 15 Feet )		- 10101 001	oi.	· —	x 1 =	5	
	_		E4 0)4/	· —	x 2 =	70	
Cornus alba / Red osier	5	Yes	<u>FACW</u>	FAC species 90	x 3 =	270	
		<u> </u>		FACU species 10	x 4 =	40	
				UPL species 30	x 5 =	150	
				·	(A)	535	_
				Joidini Iotals. 170		555	
				Prevalence Index = B/A =		3.15	
				Trevalence mack = B/A =		0.10	
	5	= Total Cov	er	Hydrophytic Vegetation Indicate			
erb Stratum (Plot size: 5 Feet )				1 - Rapid Test for Hydrophytic	c Vegeta	ation	
Microstegium vimineum / Japanese stilt grass	70	Yes	FAC	X 2 - Dominance Test is >50%			
Solidago gigantea / Smooth goldenrod	30	Yes	FACW	3 - Prevalence Index ≤3.0¹			
Euthamia graminifolia / Flat-top goldentop	20	No	FAC	4 - Morphological Adaptations	s¹ (Prov	ide suppoi	rting
Schoenoplectus tabernaemontani / Softstem bulrush, Soft-st	5	No	OBL	Problematic Hydrophytic Veg			
						(/	
				¹Indicators of hydric soil and wetla	nd bydr	ology mus	
		-					ot
		-		be present, unless disturbed or pr	obiemai	ic.	
		_		D 5 111			
				Definitions of Vegetation Strata			
		-		Tree - Woody plants 3 in. (7.6 cm)			ter a
			· <del></del>	breast height (DBH), regardless o	f height.		
•	105	- Total Cou		Sapling/shrub - Woody plants les	ss than 3	3 in. DBH	and
	125	= Total Cov	er	greater than or equal to 3.28 ft (1			
oody Vine Stratum (Plot size: 30 Feet )				,	•		
Celastrus orbiculatus / Asian bittersweet	30	Yes	UPL	Herb - All herbaceous (non-woody size, and woody plants less than 3			SS OI
		-		Woody vines - All woody vines gr	reater th	an 3.28 ft	in
		-		height.			
	30	- Total Cou					
<del>.</del>	30	_ = Total Cov	er	Hydrophytic			
				Vegetation			
				Present? Yes X	No		
				rieseitti 165 X	110		

SOIL Sampling Point: WG-1W

Depth	ription: (Describe to th Matrix			Features	***********			,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-5	10YR 4/2	90	10YR 4/6	10	C	PL	Clay Loam			
5-18	10Y 3/1	98	10YR 3/6	2	С	PL	Clay Loam			
	· -									
				<del></del>						
	·									
				-						
Type: C=Cor	ncentration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M=M	atrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol			Polyvalue Below	/ Surface (St	8) <b>(LRR R.</b> l	MLRA 149			)) (LRR K, L, MI	
	pipedon (A2)	•	Thin Dark Surfa						edox (A16) (LRI	
Black Hi		•	 Loamy Mucky M						at or Peat (S3) (	
Hydroge	en Sulfide (A4)	•	X Loamy Gleyed N	/latrix (F2)			Dark S	Surface (S	7) <b>(LRR K, L)</b>	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyva	alue Below	v Surface (S8) (	LRR K, L)
Depleted	d Below Dark Surface (A	<b>\11</b> )	Redox Dark Sur						ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark S					-	Masses (F12)	
	lucky Mineral (S1)		Redox Depressi	ons (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)								erial (F21)	0)
	Matrix (S6)	DA 140D)							ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	KA 149D)					Other	(Explain ii	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problem	natic.			
Restrictive L	.ayer (if observed):									
Type:	,									
Depth (in	ches):						Hydric Soil Pr	esent?	Yes X	No
Domarka:						1				
Remarks:										



Wetland G - View facing north



Wetland G - Soils

# Package 5

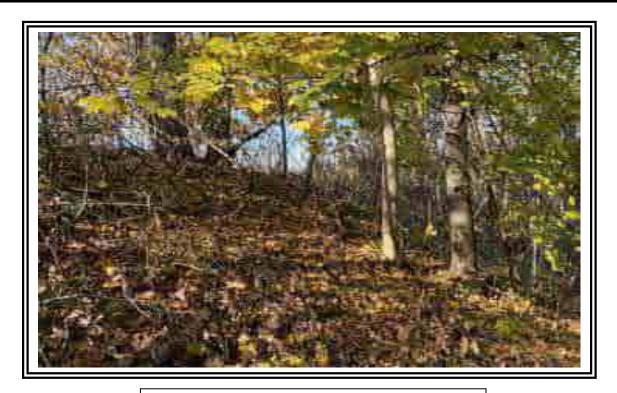
# **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Hu	dson Power Expre	ess City	//County: N	ew Scotland, Alb	any County.	Sampling Date:	11/09/2021
Applicant/Owner:	•	Kiewitt	Engineering Group	·		ate: New York	· -	WG-1U
Investigator(s):		MA, KC		ction, Township, R			of New Scotland	
Landform (hillslope, te	errace etc):	Hillslope		(concave, convex,		convex		(%): 3-8
Subregion (LRR or ML								n: WGS 1984
Soil Map Unit Name:					Long	NWI classification		1
Are climatic / hydrolog					(If no	explain in Remark		
, ,		• •	•				•	/ Na
Are Vegetation						cumstances" prese		( No
			naturally proble			ain any answers in	•	
SUMMARY OF FI	INDINGS - Atta	ich site map s	showing samplii	ng point locat	ions, transec	ts, important	teatures, etc.	
Hydrophytic Vegeta	tion Present?	Yes	NoX	Is the San	npled Area			
Hydric Soil Present	?	Yes	No X	within a W	Vetland?	Yes	NoX	
Wetland Hydrology	Present?	Yes	No X	If yes, opti	onal Wetland Site	e ID:		_
Remarks: (Explain a	alternative procedur			I				
HYDROLOGY								
Wetland Hydrology								
Primary Indicators (		quired; check all t					ators (minimum of t	wo required)
Surface Water	` '	_	Water-Stained Lea	` '			l Cracks (B6)	
High Water Tab	, ,	_	Aquatic Fauna (B	•			atterns (B10)	
Saturation (A3)	•	_	Marl Deposits (B1	•		Moss Trim I	, ,	
Water Marks (E	·	_	Hydrogen Sulfide	` '			Water Table (C2)	
Sediment Depo	` '	_	Oxidized Rhizospl	_	oots (C3)	Crayfish Bu	, ,	
Drift Deposits (		_	Presence of Redu	` '		_	/isible on Aerial Ima	
Algal Mat or Cr		_	Recent Iron Redu		s (C6)		Stressed Plants (D1	)
Iron Deposits (	•		Thin Muck Surface	• •			Position (D2)	
I <del></del>	ble on Aerial Image	- · · · -	Other (Explain in I	Remarks)		Shallow Aq	, ,	
Sparsely Vege	tated Concave Surf	ace (B8)					aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations	· ·							
Surface Water Pres		No X	Depth (inches):					
Water Table Presen								
Saturation Present?			Depth (inches):		Wotland Hyd	rology Present?	Yes	No. Y
(includes capillary fr		110X	Deptil (illiches).		vvetiana riya	rology Fresent:	165	NO
(includes capillary ii	inge)							
Describe Recorded	Data (stream gaug	e, monitoring well	l, aerial photos, previo	ous inspections), if	favailable:			
		_						
Remarks:								

				Dominance Test worksheet:				
				Number of Dominant Species				
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)				
ree Stratum (Plot size: 30 Feet )	% Cover	Species?	Status					
Fraxinus pennsylvanica / Green ash	20	Yes	FACW	Total Number of Dominant				
	20			Species Across All Strata: 8 (B)				
Acer saccharum / Sugar maple		Yes	FACU					
Prunus serotina / Black cherry	10	Yes	<u>FACU</u>	Percent of Dominant Species				
				That Are OBL, FACW, or FAC: 37.5 (A/				
				Prevalence Index worksheet:				
				Total % Cover of: Multiply by:				
	50	= Total Cov	er	OBL species $0   x 1 = 0$				
apling/Shrub Stratum (Plot size: 15 Feet )	·	_		FACW species 20 x 2 = 40				
Rhamnus cathartica / European buckthorn	10	Yes	FAC	FAC species 30 x 3 = 90				
Lonicera morrowii / Morrow's honeysuckle	10	Yes	FACU					
•				FACU species 50 x 4 = 200				
				UPL species 10 x 5 = 50				
				Column Totals:110 (A)380				
		_		Prevalence Index = B/A = 3.45				
	20	_ = Total Cov	er	Hydrophytic Vegetation Indicators:				
erb Stratum (Plot size: 5 Feet )				1 - Rapid Test for Hydrophytic Vegetation				
Dryopteris intermedia / Evergreen wood fern	20	Yes	FAC	2 - Dominance Test is >50%				
Rubus / Blackberry	10	Yes	NI NI	3 - Prevalence Index ≤3.0¹				
Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	4 - Morphological Adaptations¹ (Provide supporting				
·				Problematic Hydrophytic Vegetation¹ (Explain)				
		_		Problematic Hydrophytic vegetation (Explain)				
				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
· <u></u>								
·				Definitions of Vegetation Strata				
)								
•				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a				
				breast height (DBH), regardless of height.				
	40	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and				
oody Vine Stratum (Plot size: 30 Feet )		_		greater than or equal to 3.28 ft (1 m) tall.				
(1 lot 5/26:				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 NoX				

SOIL WG-1U Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix Color (moist) % Type<sup>1</sup> Loc2 (inches) Color (moist) Texture Remarks 10YR 2/1 100 0-12 Loam 12-18 10YR 4/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: 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) <sup>3</sup>Indicators 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 G - View facing northwest** 



Upland G - Soils

# Package 5

# **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 E	Bush/Albany	Sampling Date: 8/24/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P5-O Wet			
Investigator(s): C. Einstein & J. Greaves		Section, To	wnship, Range:	<u> </u>			
Landform (hillside, terrace, etc.): terrace	Local re	elief (concave, conve	ex, none): none	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 42 35 41N	•	-73 53 13W	Datum: WGS84			
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:				
		Voc. v					
Are climatic / hydrologic conditions on the site	•	Yes x	` `	explain in Remarks.)			
Are Vegetation, Soil, or Hydrol	<u> </u>		nal Circumstances" pres				
Are Vegetation, Soil, or Hydrol	logynaturally problemat	tic? (If needed	d, explain any answers ir	n Remarks.)			
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 X No	within a Wetland	? Yes X	No			
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	9 P5-O-4			
Remarks: (Explain alternative procedures he Shrub swamp.	ere or in a separate report.)						
Gine2 5.12p.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (	minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack	s (B6)			
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns				
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E	•			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·			
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (	·			
Sediment Deposits (B2)	x Oxidized Rhizospheres or			on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	<u> </u>					
Algal Mat or Crust (B4)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	Geomorphic Positi	· ·			
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		re)	Shallow Aquitard (I	·			
Sparsely Vegetated Concave Surface (B.	· <del></del>	.5)	X FAC-Neutral Test (	, ,			
Field Observations:		<del></del>	<u> </u>	(55)			
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes X No			
(includes capillary fringe)	,		w 1.j w. v. z g j z z z z z	·• <u>·</u> ·			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	vious inspections), if	available:				
Remarks:							

### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Tree Stratum (Plot size:30')  1. Populus deltoides	20	Species? Yes	FAC	Dominance rest worksheet.			
Rhamnus cathartica	5	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)			
3.							
4.		<u> </u>		Total Number of Dominant Species Across All Strata: 9 (B)			
5.							
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 88.9% (A/B)			
7.				Prevalence Index worksheet:			
	25	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		-		OBL species 15 x 1 = 15			
1. Cornus amomum	50	Yes	FACW	FACW species 120 x 2 = 240			
2. Rosa multiflora	10	No	FACU	FAC species 60 x 3 = 180			
3. Rhamnus cathartica	10	No	FAC	FACU species 15 x 4 = 60			
4. Cornus racemosa	5	No	FAC	UPL species 0 x 5 = 0			
5.				Column Totals: 210 (A) 495 (B)			
6.				Prevalence Index = B/A = 2.36			
7.				Hydrophytic Vegetation Indicators:			
	75	1 - Rapid Test for Hydrophytic Veget					
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%			
Lysimachia nummularia	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Equisetum arvense	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting			
3. Onoclea sensibilis	15	Yes	FACW	data in Remarks or on a separate sheet)			
4. Lythrum salicaria	15	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Solidago gigantea	15	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6. Impatiens capensis	10	No	FACW	be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	105	=Total Cover		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. Celastrus orbiculatus	5	Yes	FACU	height.			
2				l			
3				Hydrophytic Vegetation			
4				Present? Yes X No			
	5	=Total Cover					

Sampling Point: P5-O Wet

SOIL Sampling Point P5-O Wet

Depth	Matrix		•	x Featur			onfirm the absence o	· maioatoroi,			
(inches)	Color (moist)	%	Color (moist)	_ %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3	
0-10	10YR 3/1	65	5YR 4/4	25	C	PL/M	Loamy/Clayey	Prominen	t redox cor	ncentrations	
			10YR 5/6	10	c	m_		Prominent	t redox cor	ncentrations	
10-16	10YR 4/1	70	10YR 4/4	30		<u>m</u>	Loamy/Clayey	Distinct i	redox cond	centrations	
							·				
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RI	M=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining	g, M=Matri	X.	
Hydric Soil	Indicators:						Indicators for	or Problemat	ic Hydric	Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	ıck (A10) ( <b>LR</b>	R K, L, MI	LRA 149B)	
Histic Ep	oipedon (A2)		Polyvalue Below Surface (S8) (LRR R,				Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )				
Black Hi	stic (A3)		MLRA 149B	)			5 cm Mu	icky Peat or P	eat (S3) (I	LRR K, L, R)	
—— Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	) (LRR R	, MLRA 1	<b>I49B</b> ) Polyvalu	e Below Surfa	ace (S8) ( <b>I</b>	LRR K, L)	
Stratified	d Layers (A5)		High Chroma S	Sands (S	311) ( <b>LR</b> !	R K, L)	Thin Dar	rk Surface (S9	9) ( <b>LRR K</b> ,	, L)	
	d Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) ( <b>LR</b>	RK, L)	Iron-Mar	nganese Mass	ses (F12) (	(LRR K, L, R)	
	ark Surface (A12)	,	Loamy Gleyed			, ,		_		(MLRA 149B)	
	podic (A17)		X Depleted Matrix		,					side MLRA 145)	
	A 144A, 145, 149B)		X Redox Dark Su		<del>-</del> 6)			allow Dark Su			
	lucky Mineral (S1)		— Depleted Dark					xplain in Rem	-	,	
	Gleyed Matrix (S4)		x Redox Depress				(_		,		
	ledox (S5)		Marl (F10) ( <b>LR</b>		٠,		<sup>3</sup> Indicato	ors of hydroph	vtic vegeta	ation and	
	Matrix (S6)		Red Parent Ma		<sup>:</sup> 21) <b>(ML</b> I	RA 145)	wetland hydrology must be present, unless disturbed or problematic.				
Destrictive							uniess	s disturbed or	problemat	IC.	
Type:	Layer (if observed):										
٠	nches):						Hydric Soil Preser	nt? Y	es <u>X</u>	No	
Remarks:											



Wetland P5-O - View facing south.



Wetland P5-O - Soils

Segment 8 – Package 5A

**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 E	Bush/Albany	Sampling Date: 8/24/22				
Applicant/Owner: TDI			State: NY	Sampling Point: P5-O 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 %: 45				
Subregion (LRR or MLRA): LRR R	Lat: 42 35 41N	•	-73 53 13W	Datum: WGS84				
Soil Map Unit Name: HuE - Hudson silt loam			NWI classification:					
		Vac v		lain in Damarka \				
Are climatic / hydrologic conditions on the site	,	Yes x	`	explain in Remarks.)				
Are Vegetation, Soil, or Hydro	<del></del>		nal Circumstances" pres					
Are Vegetation, Soil, or Hydro	<u> </u>		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 No X	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: near flag	P5-O-4				
Remarks: (Explain alternative procedures he Field.	ere or in a separate report.)							
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Cracks					
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns					
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E	·				
Saturation (A3)	Marl Deposits (B15)	24)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C	·						
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres or Presence of Reduced Iron							
Algal Mat or Crust (B4)	Recent Iron Reduction in							
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Colle (Co)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic R	· ·				
Sparsely Vegetated Concave Surface (B	· —	,	FAC-Neutral Test (					
Field Observations:	•		<del>_</del>	,				
Surface Water Present? Yes	No x Depth (inches):							
Water Table Present? Yes	No x Depth (inches):							
Saturation Present? Yes	No x Depth (inches):		d Hydrology Present?	Yes NoX_				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:					
D								
Remarks:								

### **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator					
<u>ree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:				
				Number of Deminent Charles				
				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)				
				Total Number of Dominant Species Across All Strata: 4 (B)				
				(B)				
				Percent of Dominant Species				
·				That Are OBL, FACW, or FAC: 0.0% (A/B)				
. <u></u>				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:15'	)			OBL species0 x 1 =0				
. Rhus typhina	30	Yes	UPL	FACW species 0 x 2 = 0				
				FAC species 0 x 3 = 0				
i				FACU species75 x 4 =300				
				UPL species 70 x 5 = 350				
i				Column Totals: 145 (A) 650 (B				
i.				Prevalence Index = B/A = 4.48				
				Hydrophytic Vegetation Indicators:				
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5' )		10101 00101		2 - Dominance Test is >50%				
	60	Voo	FACIL	3 - Prevalence Index is ≤3.0 <sup>1</sup>				
Erigeron canadensis	60	Yes	FACU	-   <del></del>				
2. Artemisia vulgaris	40	Yes	<u>UPL</u>	4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)				
3.								
l				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
j				<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
j				be present, unless disturbed or problematic.				
7				Definitions of Vegetation Strata:				
3.				Tree – Woody plants 3 in. (7.6 cm) or more in				
).				diameter at breast height (DBH), regardless of height.				
0.				Sapling/shrub – Woody plants less than 3 in. DBH				
1.				and greater than or equal to 3.28 ft (1 m) tall.				
2.								
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
Mandy Vina Stratum (Diet size) 201	٠							
	15	Voo	FACIL	<b>Woody vines</b> – All woody vines greater than 3.28 ft in				
Vitio postivalia	15	Yes	<u>FACU</u>	height.				
. Vitis aestivalis	·							
Vitis aestivalis				Hydrophytic				
Vitis aestivalis				Hydrophytic Vegetation				
Vitis aestivalis		=Total Cover						

SOIL Sampling Point P5-O Upl

Profile Descri Depth	ption: (Describe to Matrix	to the de		<b>ument th</b> x Featur		itor or co	onfirm the absence o	f indicators	s.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	'S
(1101100)	Color (molet)				1700		Toxtaro		rtomant	
17	ttion D-D		4—Dadusad Matrix A				21		: NA-NA-4-	
		etion, Riv	1=Reduced Matrix, N	/IS=IVIASI	ked Sand	Grains.	<sup>2</sup> Location: P			
Hydric Soil In							Indicators for		-	
Histosol (A	<b>A1</b> )		Dark Surface (	S7)			2 cm Mu	ıck (A10) ( <b>L</b>	.RR K, L, M	ILRA 149B)
Histic Epip	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,	Coast P	rairie Redox	k (A16) ( <b>LRI</b>	R K, L, R)
Black Hist	ic (A3)		MLRA 149B	)			5 cm Mu	ıcky Peat oı	r Peat (S3)	(LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf	, ace (S9)	(LRR R	MLRA 1		-	ırface (S8) (	
	_ayers (A5)		High Chroma S		-				S9) ( <b>LRR K</b>	•
		(444)								-
	Below Dark Surface	e (A11)	Loamy Mucky			₹ K, L)		-		(LRR K, L, R)
	Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmor	nt Floodplaii	n Soils (F19	9) (MLRA 149B)
Mesic Spo	odic (A17)		Depleted Matri	x (F3)			Red Par	ent Materia	l (F21) <b>(out</b> :	side MLRA 145)
(MLRA	144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Sh	allow Dark S	Surface (F2	2)
Sandy Mu	cky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Re	emarks)	
	eyed Matrix (S4)		Redox Depress						,	
Sandy Red			Marl (F10) ( <b>LR</b>		,		<sup>3</sup> Indicate	ore of hydroi	phytic veget	tation and
					04) /BAL F	34.45\		-		
Stripped M	riatrix (So)		Red Parent Ma	ateriai (F.	21) (WILF	KA 145)			y must be p	
							unless	s disturbed o	or problema	itic.
Restrictive La	yer (if observed):									
Type:										
Depth (inc	hes).						Hydric Soil Prese	nt?	Yes	No X
Берит (пте							Tiyane don't rese			
Remarks:										
Soils conist of	railroad ballast.									