

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

.g _ a.s <u>_ / 2/ +/ 202 </u>
oling Point: <u>12.14 C-1</u>
Slope (%):
Datum: <u>NAD83</u>
SS
Yes 🔀 No 🗌
narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedu Wetland 12.14 C	Yes X No Yes No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is	equired; check all that apply)	Surface Soil Cracks (B6)

Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3) L Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🛛 No 🔲 Depth (inches): 1	
Water Table Present? Yes X No Depth (inches): 6	
Saturation Present? Yes <u>X</u> No <u>L</u> Depth (inches): 0	wetland Hydrology Present? Yes 🔼 No 🗋
Saturation Present? Yes X No Depth (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>LCL</u> No L
Saturation Present? Yes X No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	ctions), if available:
Saturation Present? Yes XI No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	tions), if available:
Saturation Present? Yes X No L Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	tions), if available:
Saturation Present? Yes K No L Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	tions), if available:
Saturation Present? Yes XI Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	tions), if available:
Saturation Present? Yes Kail No Lail Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	tions), if available:
Saturation Present? Yes <u>X</u> No <u>L</u> Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	tions), if available:
Saturation Present? Yes <u>K</u> No <u>L</u> Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	tions), if available:
Saturation Present? Yes <u>K</u> No <u>L</u> Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	tions), if available:
Saturation Present? Yes K No L Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	wetland Hydrology Present? Yes <u>La</u> No L
Saturation Present? Yes Kain No Landow Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	wetland Hydrology Present? Yes <u>La</u> No L
Saturation Present? Yes <u>K</u> No <u>L</u> Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	wetland Hydrology Present? Yes <u>L</u> No L
Saturation Present? Yes <u>K</u> No <u>L</u> Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	wetiand Hydrology Present? Yes <u>L</u> No L

Tree Stratum (Plot size: 30)	Absolute % Cover	Domi	nant	Indicator Status	Dominance Test worksheet:
1	<u></u>	-			Number of Dominant Species
2		_			That Are OBL, FACVV, or FAC: <u>4</u> (A)
3		-			Total Number of Dominant Species Across All Strata: 5 (B)
3					
4					Percent of Dominant Species That Are OBL, FACW, or FAC: 8 (A/B)
S				<u> </u>	
o				<u> </u>	Prevalence Index worksheet:
(-			Total % Cover of: Multiply by:
		= Tota	Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)					FACW species X 2 =
1. <u>Cornus sericea</u>	<u>60</u>	YES		<u>FACW</u>	FACU species X 3
2		-	▼.	_	UPL species x 5 =
3		-			Column Totals: (A) (B)
4				<u> </u>	
5		_		<u> </u>	Prevalence Index = B/A =
6		_			Hydrophytic Vegetation Indicators:
7		_		-	1 - Rapid Test for Hydrophytic Vegetation
		= Total	l Cov	er	⊻ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5)					☐ 3 - Prevalence Index is ≤3.0 ⁺
1. Onoclea sensibilis	60	YES	-	FACW	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
2. Lythrum salicaria	40	YES		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3 Enilohium son	25	VES			¹ Indicators of hydric soil and wetland hydrology must
4					be present, unless disturbed or problematic.
5					Definitions of Vegetation Strata:
5					
-					at breast height (DBH), regardless of height.
<i>1</i>		<u> </u>			Sapling/shrub - Woody plants less than 3 in DBH
8					and greater than or equal to 3.28 ft (1 m) tall.
9					Herb – All herbaceous (non-woody) plants, regardless of
10		-		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		-		<u> </u>	Woody vines – All woody vines greater than 3.28 ft in
12		-			height.
		= Tota	Cov	er	
Woody Vine Stratum (Plot size: 30)					
1. <u>Celastrus orbiculatus</u>	5	YES			
2					Hydrophytic Vegetation
3		<u> </u>			Present? Yes 🔀 No 🗌
4		_		<u> </u>	
		= Tota	l Cov	er	
Remarks: (Include photo numbers here or on a separate	sheet.)				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	ox Feature	5			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0.16	10vr/3/1	05	7 5vr/5/6	5	c 🔽	1. 🗖	Salio	Prominent
	10917371		<u></u>	5	<u> </u>	<u> </u> Li-F	3820	Tronment
						<u>-</u>		
						-		
					<u> </u>			
					-	-		
					<u> </u>			
					<u> </u>			
					<u> </u>			
						-		
					-	-		
					-	-		
¹ Type: C=C	oncentration D=Der	oletion RM	=Reduced Matrix M	S=Masker	Sand Gr	ains	² Location	· PI =Pore Lining M=Matrix
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
	(A1)			w Surface	(S8) (I D			
	(A1)				(30) (LR	Ν Ν ,		$\frac{1}{1000} \left(\mathbf{LRR} \mathbf{R}, \mathbf{L}, \mathbf{M} \mathbf{LR} \mathbf{A} \right)$
	stic (Δ 3)		Thin Dark Surf	7) 200 (SQ) (I		I PA 1/0R	$1 - \frac{1}{5}$	$f(\mathbf{R}, \mathbf{R}, \mathbf{R}) = \mathbf{R} + \mathbf{R} +$
	Suc(A3) on Sulfide (A4)			Mineral (F				(100, 100, 100, 100, 100, 100, 100, 100,
	1 Javors(A5)			Matrix (E2		, L)		lue Below Surface (S8) (I PP K 1)
	d Bolow Dark Surfac	$\sim (\Lambda 11)$	Depleted Matri	- Matrix (1 2 v (E3))			ark Surface (S0) (LRR K, L)
	a below bark Surface		Redox Dark Si	v (FG) vrface (FG)				and Surface (33) (LNC K, L)
	Aucky Mineral (S1)			Surface (F0)	7)			anganese Masses (F12) (ERR R, E, R)
Sandy G	Nocky Mineral (S1)			sions (F8)	')			Spodic (TA6) (MI RA 144A 145 149B)
	Pedox (S5)			3013 (1 0)				arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TE12)
	rface (S7) (I PP P	MI DA 140	B)					(Evolution in Remarks)
			0)					
³ Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mu	st he nrese	ent unles	s disturbed	or problematic	,
Restrictive I	aver (if observed)		clana nyarology ma		ant, anteo			
Turney	Layer (il observed)	•						
Type:								
Depth (inc	ches):		-				Hydric Soil	Present? Yes 🔼 No 📘
Remarks:								



Wetland 12.14 C- Soils

SITE PHOTOGRAPHS

Phase 5

Champlain Hudson Power Express



Upland 12.14 C- View facing northeast

Phase 5

SITE PHOTOGRAPHS

Champlain Hudson Power Express

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

Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22
Applicant/Owner: TDI	State: NY Sampling Point: Wet_5B-A
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA): LRR R Lat: 42.54809°N	Long: -73.84193°W Datum: WGS84
Soil Map Unit Name: Fx - Fluvaquents-Udifluvents complex, frequently floo	NWI classification: PEM1
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	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 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: Near flag 5B-A-9
Remarks: (Explain alternative procedures here or in a separate report.)	
Persistent Palustrine Emergent Marsh dominated by common reed with a s	mall portion of open water.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)					
Surface Water (A1)	Drainage Patterns (B10)					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	ots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6) X Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B	8)	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, mor	nitoring well, aerial photos, previous inspe	ctions), if available:				
Remarks:						
Adjacent to Stream and ponding.						

Sampling Point: Wet_5B-A

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3. 4.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7		<u> </u>		Prevalence Index worksheet:
		=Total Cover	_	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species X 1 = 20
1				FACW species 80 x 2 = 160
2.				FAC species $0 \times 3 = 0$
3.				FACU species 0 x 4 = 0
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 100 (A) 180 (B)
6				Prevalence Index = $B/A = 1.80$
7				Hydrophytic Vegetation Indicators:
		-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Obramita quatric	90	Voc		$\frac{1}{1}$ 2 - Dominance root is 2007
	20	165		$\frac{X}{2}$ 3 - Prevalence index is ≥ 5.0
2. Lytnrum saiicaria	20	Yes	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3 4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must be
7				Definitions of Vegetation Strata:
R				
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
	100	=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				height.
2				
3.				Hydropnytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Desc	ription: (Describe to	o the dep	oth needed to docu	ment th	e indica	tor or co	onfirm the absence o	of indicato	rs.)	
Depth	Matrix		Redo	x Featur	es	2				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture		Remarks	3
0-15	2.5Y 3/1	75	7.5YR 3/4	25	С	М	Loamy/Clayey	Prom	inent redox co	ncentrations
15-19	10YR 4/2	85	10YR 4/6	10	С	М	Loamy/Clayey	Prom	inent redox co	ncentrations
			10YR 2/1	5	С	М		Fa	int redox conce	entrations
·										
1							2			
'Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location:	PL=Pore L	ining, M=Matriz	K. Soils ³ :
Histosol (Dark Surface (S7)						BA 149B)
Histic En	inedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	RRR	Coast	Prairie Red	(LIKIKIK, L, III)	$(\mathbf{K} \mathbf{I} \mathbf{R})$
Black His	stic (A3)		MI RA 1498			-ixix ix,	5 cm M	lucky Peat	or Peat (S3) (I	
Hydroger	n Sulfide (A4)		Thin Dark Surf	, ace (S9)	(LRR R.	MLRA	149B) Polwa	lue Below S	Surface (S8) (I	-RR K. L)
Stratified	Lavers (A5)		High Chroma S	Sands (S	(8 K. L)	Thin D	ark Surface	e (S9) (LRR K.	L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral ((F1) (LRF	R K. L)	Iron-M	anganese l	Masses (F12) (–/ LRR K. L. R)
Thick Da	rk Surface (A12)	A12) Loamy Gleved Matrix (F2)					Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Sp	odic (A17)		Depleted Matrix (F3)					Red Parent Material (F21) (outside MLRA 145		
(MLR/	A 144A, 145, 149B)		X Redox Dark Su	dox Dark Surface (F6)			Very Shallow Dark Surface (F22)			
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain in Remarks)			
Sandy GI	eyed Matrix (S4)		Redox Depress	sions (F8	B)					
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	RA 145)	wetland hydrology must be present,			
							unle	ss disturbe	d or problemat	ic.
Restrictive L	ayer (if observed):									
lype:										
Depth (in	ches):						Hydric Soil Prese	ent?	Yes X	No
Remarks:										



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22				
Applicant/Owner: TDI	State: NY Sampling Point: UPL_5B-A				
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope Local	elief (concave, convex, none): Concave Slope %: 15				
Subregion (I RR or MI RA): I RR R Lat: 42.548°N	l ong: -73.84204°W Datum: WGS84				
Soil Map Unit Name: Ex - Fluxaguents-Udifluvents complex, frequently floo	ded NWI classification: NA				
Are Vigestation	res x No (ii no, explain in Remarks.)				
Are vegetation, Soil, or Hydrologysignificantly distur	Are Normal Circumstances present? Yes <u>x</u> No				
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (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 No X Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes <u>No X</u>				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Adjacent successional old field hillslope.					
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	9) 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 (1) Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres of	n 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	Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5)Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	(s) 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):	Wetland Hydrology Present? Yes No X				
(Includes capillary fringe)	views inspections) if sucilable:				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	/ious inspections), if available:				
Remarks:					

Sampling Point: UPL_5B-A

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, of FAC.
3.				Total Number of Dominant
4				Species Across Air Strata. <u>2</u> (0)
5				Percent of Dominant Species
7.		- <u> </u>		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		$OBL \text{ species} \qquad 0 \qquad \text{x 1} = 0$
<u> </u>				FACW species $0 x 2 = 0$
2.				FAC species 1 $x 3 = 3$
3.				FACU species 22 x 4 = 88
4.				UPL species 23 x 5 = 115
5.				Column Totals: 46 (A) 206 (B)
6.				Prevalence Index = $B/A = 4.48$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
1. Setaria viridis	20	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Cirsium arvense	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Amaranthus retroflexus	3	No	FACU	data in Remarks or on a separate sheet)
4. Plantago lanceolata	3	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Daucus carota	2	No	UPL	¹ Indicators of hydric soil and wetland hydrology must be
6. Taraxacum officinale	2	No	FACU	present, unless disturbed or problematic.
7. Lotus corniculatus	2	No	FACU	Definitions of Vegetation Strata:
8. Parthenocissus quinquefolia	1	No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. Asclepias syriaca	1	No	UPL	at breast height (DBH), regardless of height.
10. Trifolium pratense	1	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH
11. Solanum dulcamara	1	No	FAC	and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	46	=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		_		height.
2				the forentie de
3		<u> </u>		Hydrophytic Vegetation
4.				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment th	e indica	tor or co	nfirm the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Featur	res1	. 2	- .		_	
(inches)	Color (moist)	%	Color (moist)	%	Type [*]	Loc-	lexture	·	Rema	rks
0-3	7.5YR 3/1	100					Loamy/Clayey			
3-17	7.5YR 3/3	100					Loamy/Clayey			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location:	PL=Pore L	ining, M=Ma	trix.
Hydric Soil I	ndicators:		Darly Courfs as (07)			Indicators	s for Proble	ematic Hydri	
Histic En	(AT) inedon (A2)		Dark Surface (07) W Surfa	co (S8) (I		2 cm Coast	Prairie Reg	(LKK K, L, I Nov (A16) (I E	VILKA 149D) Drkid)
Black His	stic (A3)		MLRA 149B)	ce (50) (I	-ixix ix,	5 cm	Mucky Peat	or Peat (S3)	(LRR K. L. R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	, ace (S9)) (LRR R.	MLRA 1	49B) Polyva	alue Below	Surface (S8)	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	511) (LRF	R K, L)	,, Thin D	Dark Surfac	e (S9) (LRR	K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral ((F1) (LRF	R K, L)	Iron-M	langanese	Masses (F12	(LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (I	F2)		Piedm	ont Floodp	lain Soils (F1	9) (MLRA 149B)
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red F	arent Mate	rial (F21) (o u	itside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very S	Shallow Dai	rk Surface (F	22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other	(Explain in	Remarks)	
Sandy Gl	eyed Matrix (S4)		Redox Depres	sions (F8	8)		31			
Sandy Re	edox (S5) Matrix (S6)		Mari (F10) (LR	KK,L)	21) /MI E	0 1 1 15)	Indica	ators of hyd	ropnytic vege	etation and
Suipped				ateriai (F		A 145)	unk	anu nyurun ses disturbe	d or problem	present,
Restrictive L	aver (if observed):									
Type:	,									
Depth (in	ches):						Hvdric Soil Pres	ent?	Yes	No X
Demorko:										
Remarks:										
1										



Project/Site: CHPE		City/County: Bethleh	em/Albany County S	Sampling Date: <u>9/27/22</u>		
Applicant/Owner: TDI			State: NY	Sampling Point: Wet_5B-B		
Investigator(s): C. Scrivner & N. Frazer		Section To	vnship Range			
Landform (billside, terrace, etc.): Depressio						
Candionn (ninside, tenace, etc.). Depressio		aller (concave, conve				
Subregion (LRR or MLRA): LRR R	Lat: 42.54837°N	Long:	-73.84082°W	Datum: WGS84		
Soil Map Unit Name: Fx - Fluvaquents-Udiflu	vents complex, frequently flood	ed	NWI classification:	PEM1		
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes <u>x</u>	No (If no, ex	plain in Remarks.)		
Are Vegetation, Soil, or Hydro	logysignificantly disturbe	ed? Are "Norm	nal Circumstances" present	? Yes <u>x</u> No		
Are Vegetation, Soil, or Hydro	logynaturally problemati	ic? (If needed	l, explain any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point locat	ions, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar	ea			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: Near flag 5	B-B-1		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (min	imum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (E	36)		
Surface Water (A1)	Water-Stained Leaves (BS	9)	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 (C	:1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iror	n (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Position (osition (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	S)	INICrotopographic Reli	er (D4)		
Sparsely vegetated Concave Surface (Ba	5))		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present?	Ves X No		
(includes capillary fringe)	No <u>X</u> Deptil (incles).		a nyarology i resent i			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previ	ious inspections), if a	vailable:			
Remarks:						

Sampling Point: Wet_5B-B

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.		·		That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species 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')				$\frac{1}{\text{OBL species}} = 60 \qquad \text{x1} = 60$
				EACW species $40 \times 2 = 80$
2				FAC species $0 \times 3 = 0$
2				$\frac{1}{1000} = \frac{1}{10000000000000000000000000000000000$
S				$\begin{array}{c c} FACU \text{ Species} & \underline{0} \\ \hline \\ LUDI \text{ species} & 0 \\ \hline \\ \end{array}$
4				$\begin{array}{c c} \text{UPL Species} & \underline{0} & \underline{A3} = & \underline{0} \\ \hline \\ \text{Orburn Table:} & 105 & (A) & 160 & (P) \\ \end{array}$
5				Column rotals: 105 (A) 160 (B)
o				Prevalence Index = D/A = 1.52
<i>I</i>				Hydropnytic vegetation indicators.
		=1 otal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)			~~.	$\frac{X}{2}$ - Dominance Test is >50%
1. Lythrum salicaria	60	Yes	OBL	X_3 - Prevalence Index is ≤3.0'
2. <u>Onoclea sensibilis</u>	30	Yes	FACW	4 - Morphological Adaptations' (Provide supporting
3. <u>Cornus sericea</u>	10	No	FACW	
4				Problematic Hydrophytic Vegetation' (Explain)
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				at breast height (DBH), regardless of height.
10.				
11.				and oreater than or equal to 3.28 ft (1 m) tall.
12				
	100	-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')		-10101 0010		
1 Vitis aestivalis	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height
0			17.00	
2				Hydrophytic
3				Vegetation Procent? Ves X No
4	<u>F</u>	Total Cover		
De verder, (la clude altate pumbers bors er es e const				
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	(S
0-12	10YR 4/2	80	10YR 4/6	20	С	М	Loamy/Clayey	Pro	minent redox co	oncentrations
12-18	10YR 4/2	55	10YR 3/6	40	С	М	Loamy/Clayey	Pro	minent redox co	oncentrations
			7.5YR 3/4	5	С	M		Di	stinct redox cor	ncentrations
					_					
				_	_	_				
		tion BM	Boducod Motrix M	S-Mook	ad Sand	Craina	² l contion		Lipipa M-Motr	iv
Hydric Soil I	ncentration, D=Depie	etion, RIVI	=Reduced Matrix, M	S=IVIASK	ed Sand	Grains.	Location	s for Prob	Lining, M=Matr	Soils ³
Histosol Histic Ep Black His Hydroger Stratified Depleted Thick Da Mesic Sp (MLR, Sandy M Sandy G Sandy Ro Stripped	(A1) ipedon (A2) stic (A3) h Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) bodic (A17) A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (F{ R K, L) aterial (F	ce (S8) (L (LRR R, 11) (LRF F1) (LRF F1) (LRF F2) 6) (F7) 3) 21) (MLR	RR R, MLRA 1 t K, L) t K, L) A 145)	2 cm Coas 5 cm Polyo Thin Iron- Pieda Red Very Othe ³ India we	Muck (A10 the Prairie Re Mucky Pea value Below Dark Surfa Manganese mont Flood Parent Mat Shallow Da r (Explain in cators of hy tland hydro less disturb	(IRR K, L, M adox (A16) (IR at or Peat (S3) (/ Surface (S8) (ce (S9) (IRR K Masses (F12) plain Soils (F19) plain Soils (F19) erial (F21) (out ark Surface (F2 n Remarks) drophytic veget blogy must be p red or problema	LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (, L) (LRR K, L, R) () (MLRA 149B side MLRA 149 2) ration and resent, ttic.
Type: Depth (in	iches):						Hydric Soil Pre	sent?	Yes X	No
Remarks:							•			



Project/Site: CHPE		City/County: Bethleh	em/Albany County	Sampling Date: 9/27/22			
Applicant/Owner: TDI			State: NY	Sampling Point: Upl_5B-B			
Investigator(s): C. Scrivner & N. Frazer		Section, Tow	vnship, Range:				
Landform (hillside, terrace, etc.); Flat	Local r	elief (concave, conve	(, none): None	Slope %: 0			
Subregion (I BR or MI BA): I BR B	Lat: 42.54827°N	Long:	-73.84103°W	Datum: WGS84			
Soil Map Unit Name: Fx - Fluvaguents-L	Idifluvents complex. frequently floor	ded	NWI classification:	NA			
Are elimatic / hydrologic conditions on the	site typical for this time of year?	Voc x	No (lf po c	valain in Romarka)			
Are Vagetation Soil or the		$1 \text{es} \underline{X}$					
	arologysignificantly disturb	Are Norm	al Circumstances prese				
Are Vegetation, Soil, or H	/drologynaturally problemat	tic? (If needed	, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Atta	ch site map showing sam	oling point locati	ons, transects, imp	portant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>No X</u>	If yes, optional Wet	land Site ID:				
Remarks: (Explain alternative procedure	s here or in a separate report.)						
Successional old field.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (m	inimum of two required)			
Primary Indicators (minimum of one is re-	quired: check all that apply)		Surface Soil Cracks	(B6)			
Surface Water (A1)	Water-Stained Leaves (E	39)	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)	Hvdrogen Sulfide Odor ((C1)	Cravfish Burrows (C	8)			
Sediment Deposits (B2)	Oxidized Rhizospheres o	n Living Roots (C3)	Saturation Visible or	Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iro	n (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery	(B7) Other (Explain in Remark	(S)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface	e (B8)		FAC-Neutral Test (E	05)			
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	d Hydrology Present?	Yes No X			
(includes capillary fringe)							
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	vious inspections), if a	vailable:				
Remarks:							

Sampling Point: Upl_5B-B

	Absolute	Dominant	Indicator	Demission Texture laborat	
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksneet:	
1				Number of Dominant Species	(•)
2.				That Are OBL, FACW, or FAC: 2	(A)
3.				Total Number of Dominant	
4				Species Across All Strata: 4	(B)
5				Percent of Dominant Species	
6.				That Are OBL, FACW, or FAC: 50.0%	(A/B)
7				Prevalence Index worksheet:	
		=Total Cover		Total % Cover of: Multiply by:	_
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>8</u> x 1 = <u>8</u>	_
1				FACW species 0 x 2 = 0	_
2.				FAC species <u>30</u> x 3 = <u>90</u>	_
3				FACU species <u>38</u> x 4 = <u>152</u>	_
4.				UPL species <u>5</u> x 5 = <u>25</u>	_
5				Column Totals: 81 (A) 275	_(B)
6.				Prevalence Index = B/A = 3.40	_
7				Hydrophytic Vegetation Indicators:	
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%	
1. Persicaria maculosa	15	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹	
2. Lotus corniculatus	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supp	orting
3. Solanum dulcamara	10	Yes	FAC	data in Remarks or on a separate sheet)	
4. Oxalis stricta	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain	n)
5. Lythrum salicaria	8	No	OBL	¹ Indicators of hydric soil and wetland hydrology m	nust ha
6. Trifolium pratense	6	No	FACU	present, unless disturbed or problematic.	
7. Arctium minus	5	No	FACU	Definitions of Vegetation Strata:	
8. Cirsium arvense	5	No	FACU	Tree – Woody plants 3 in (7.6 cm) or more in dia	matar
9. Daucus carota	5	No	UPL	at breast height (DBH), regardless of height.	
10. <u>Setaria pumila</u>	3	No	FAC	Sanling/shrub - Woody plants less than 3 in DE	зн
11. Toxicodendron radicans	2	No	FAC	and greater than or equal to 3.28 ft (1 m) tall.	,,,,
12. Phytolacca decandra	2	No	FACU	Herb All borboscous (non woods) plants, regard	diaca
	81	=Total Cover		of size, and woody plants less than 3.28 ft tall.	uless
Woody Vine Stratum (Plot size: 30')		'		Weedwines All wood wines greater than 2.20	0.44 :
1.				height.	sπin
2.					
3.	1			Hydrophytic	
4.				Vegetation Present? Yes No X	
		=Total Cover			
Remarks: (Include photo numbers here or on a separ	ate sheet)				

Profile Description: (Describe to the de	epth needed to docu	ment th	e indica	or or co	nfirm the absence of indic	ators.)	
Depth Matrix	Redo	x Featur	es				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
0-20 10YR 3/3 95	10YR 5/2	5	D	М	Loamy/Clayey		
					·		
					·······		
					·		
¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=Po	e Lining, M=Ma	trix.
Hydric Soil Indicators:					Indicators for Pro	blematic Hydri	c Soils ³ :
Histosol (A1)	Dark Surface (S7)			2 cm Muck (A	10) (LRR K, L, I	MLRA 149B)
Histic Epipedon (A2)	Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Prairie	Redox (A16) (LF	RR K, L, R)
Black Histic (A3)	MLRA 149B)			5 cm Mucky P	eat or Peat (S3)	(LRR K, L, R)
Hydrogen Sulfide (A4)	Thin Dark Surf	ace (S9)			49B) Polyvalue Bel	ow Surface (S8)	(LRR K, L)
Stratified Layers (A5)	High Chroma S	Sands (S	(LRF (11) (LRF	(K,L)	Thin Dark Sur	face (S9) (LRR	
Depleted Below Dark Surface (A11)		Motrix ((K , L)		se Masses (F12	(LRR R, L, R)
Masia Spadia (A17)	Loamy Gleyed		-2)		Pleamont Floo	odpiain Solis (Fi	9) (MILKA 1496)
	Depieted Math	x (F3) urfaco (E	6)			aleriai (F21) (Ou Dark Surfaco (E'	22)
Sandy Muchy Mineral (S1)	Neolox Dark St	Surface	(E7)		Other (Explain	in Remarks)	~~)
Sandy Gleved Matrix (S4)	Depleted Dark	sions (F	(1 <i>7)</i> 3)			i ili iveniaiks)	
Sandy Redox (S5)	Marl (F10) (LR	R K . L))		³ Indicators of	nvdrophytic veg	etation and
Stripped Matrix (S6)	Red Parent Ma	terial (F:	21) (MLF	A 145)	wetland hvo	roloav must be i	present.
			<i>,</i> ,	-,	unless distu	rbed or problem	atic.
Restrictive Layer (if observed):							
Туре:							
Depth (inches):					Hvdric Soil Present?	Yes	No X
Remarks.							



See ERDC/EL TR-12-1; the propone	agency is CECW-CO-R	(,
Project/Site: CHPE	City/County: Bethlehem/Alb	bany County Sampling Date: 9/27/22
Applicant/Owner: <u>TDI</u>		State: NY Sampling Point: Wet_5B-C
Investigator(s): C. Scrivner & N. Frazer	Section, Township,	, Range:
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex, none	e): <u>Concave</u> Slope %: <u>5</u>
Subregion (LRR or MLRA): LRR R Lat:	42.54825°N Long: -73.84	1054°W Datum: WGS84
Soil Map Unit Name: Fx - Fluvaquents-Udifluvents com	plex, frequently flooded	WI classification: PEM1
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes x N	No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly disturbed? Are "Normal Circ	cumstances" present? Yes x No
Are Vegetation . Soil . or Hydrology	naturally problematic? (If needed, expla	in any answers in Remarks.)
SUMMARY OF FINDINGS Attach site man	showing sampling point locations	transacts important features ato
SUMMART OF FINDINGS – Attach site map	showing sampling point locations,	transects, important leatures, 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 Si	ite ID: Near flag 5B-C-4
HYDROLOGY		
Wetland Hydrology Indicators:	<u>Secon</u>	ndary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check a	Il that apply) Si	urface Soil Cracks (B6)
Surface Water (A1)Wate	r-Stained Leaves (B9)	rainage Patterns (B10)
High Water Lable (A2)Aqua	tic Fauna (B13) M	loss Trim Lines (B16)
Saturation (AS)Main	Deposits (BTS)	roufish Burrows (C2)
Sediment Deposits (B2)	zed Bhizospheres on Living Boots (C3)	advision Visible on Aerial Imageny (CQ)
Drift Deposits (B3)	ance of Reduced Iron (C4)	tunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Rece	Int Iron Reduction in Tilled Soils (C6) X G	eeomorphic Position (D2)
Iron Deposits (B5) Thin	Muck Surface (C7)	hallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Othe	r (Explain in Remarks) M	licrotopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FJ	AC-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): 8 Wetland Hydr	ology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring we	, aerial photos, previous inspections), if available	e:
Remarks:		

Sampling Point: Wet_5B-C

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. <u>Salix alba</u> 2	10	Yes	FACW	Number of Dominant Species		
3 4				Total Number of Dominant Species Across All Strata:		
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)		
7.				Prevalence Index worksheet:		
	10	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				OBL species 55 x 1 = 55		
1. Cornus amomum	8	Yes	FACW	FACW species $29 \times 2 = 58$		
2. Fraxinus pennsylvanica	3	Yes	FACW	FAC species $8 \times 3 = 24$		
3. Rhamnus cathartica	3	Yes	FAC	FACU species 31 $x 4 = 124$		
4.				UPL species $1 \times 5 = 5$		
5.				Column Totals: 124 (A) 266 (B)		
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$		
7.			·	Hydrophytic Vegetation Indicators:		
	14	-Total Cover	·	1 - Ranid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
1 Galium mollugo	30	Yes	FACU	X_3 - Prevalence Index is $\leq 3.0^1$		
2 Lythrum salicaria	25	Yes	OBI	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
3 Symphyotrichum puniceum	20	Ves				
Scirpus cynerinus	10	<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)		
5 Symphyotrichum novae-angliae	5	No	FACW			
6 Phragmites quetralis	3	No	FACW	 ¹Indicators of hydric soil and wetland hydrology must b present upless disturbed or problematic 		
7 Euthomia graminifalia		No		present, unless disturbed of problematic.		
		No		Demitions of Vegetation Strata.		
 Populas denoides Solidado canadonois 		No		Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
		No		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				Herb - All berbaceous (non-woody) plants, regardless		
	100	=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		
·						
2				Hydrophytic		
3				Vegetation		
4		Tatal Oscar				
		= I otal Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Depth Matrix Redox Features (inches) Color (moist) % Type ¹ Loc ² Texture Remarks 0-13 2.5Y 3/1 93 10YR 3/6 2 C M Loamy/Clayey Prominent redox concentrations
(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks 0-13 2.5Y 3/1 93 10YR 3/6 2 C M Loamy/Clayey Prominent redox concentrations
0-13 2.5Y 3/1 93 10YR 3/6 2 C M Loamy/Clayey Prominent redox concentrations 10YR 2/1 5 C M Faint redox concentrations 13-19 10YR 3/3 90 10YR 4/1 5 D M Loamy/Clayey
10YR 2/1 5 C M Faint redox concentrations 13-19 10YR 3/3 90 10YR 4/1 5 D M Loamy/Clayey
10YR 4/6 5 C M Distinct redox concentrations
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Praine Redox (A16) (LRR R, L, R) Block Histic (A3) MI PA 149B
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (I RR R MI RA 149B) Polyvalue Below Surface (S8) (I RR K L)
Stratified Lavers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149E
Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 14
(MLRA 144A, 145, 149B) X Redox Dark Surface (F6) Very Shallow Dark Surface (F22)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks)
Sandy Gleyed Matrix (S4) Redox Depressions (F8)
Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present,
unless disturbed or problematic.
Depth (inches): Hydric Soil Present? Yes X No
Remarks:



Project/Site: CHPE	Cit	y/County: Bethlehe	em/Albany County	Sampling Date: 9/27/22		
Applicant/Owner: TDI		· · · <u> </u>	State: NY	Sampling Point: Upl_5B-C		
Investigator(s): C. Scrivner & N. Frazer		Section. Tow	nship. Range:			
Landform (hillside terrace etc.): Hillslope	Local relie	f (concave, convex	none): Convex	Slope %: 3		
Subregion (LRR or MLRA): LRR R	254837°N	Long:	-73 84057°W	Datum: WGS84		
Soil Man Unit Name: HuE - Hudson silt loam 25 to 4	5 percent slopes	Long.	NWI classification:			
		Mar				
Are climatic / hydrologic conditions on the site typical fo	or this time of year?	Yes <u>x</u>	NO (If no, e)	(plain in Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed	? Are "Norm	al Circumstances" presen	t? Yes <u>x</u> No		
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed,	explain any answers in R	emarks.)		
SUMMARY OF FINDINGS – Attach site ma	ap showing samplir	ng point location	ons, transects, imp	ortant features, etc.		
Hydrophytic Vegetation Present? Yes	No X I	s the Sampled Are	a			
Hydric Soil Present? Yes	No X v	within a Wetland?	Yes	No X		
Wetland Hydrology Present? Yes	No X II	f yes, optional Wetl	and Site ID:			
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (min	nimum of two required)		
Primary Indicators (minimum of one is required; check	k all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)Wa	ater-Stained Leaves (B9)		Drainage Patterns (B	10)		
High Water Table (A2)	uatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)Ma	arl Deposits (B15)		Dry-Season Water Ta	able (C2)		
Water Marks (B1)Hy	drogen Sulfide Odor (C1)		Crayfish Burrows (C8	s)		
Sediment Deposits (B2)	idized Rhizospheres on Li	iving Roots (C3)	Saturation Visible on	Aerial Imagery (C9)		
Drift Deposits (B3)Pre	esence of Reduced Iron (C	n (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)Re	in Muck Surface (CZ)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (BZ)	her (Explain in Remarks)	Snallow Aquitard (D3) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D	5)		
Field Observations:		<u> </u>		-)		
Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes No X	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 v	vell, aerial photos, previou	is inspections), if av	vailable:			
Remarks:						

Sampling Point: Upl_5B-C

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				Number of Deminort Species
2.				That Are OBL, FACW, or FAC:(A)
3 4		·		Total Number of Dominant Species Across All Strata: <u>3</u> (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: 15')				OBL species 0 x 1 = 0
1				FACW species x 2 =0
2				FAC species <u>5</u> x 3 = <u>15</u>
3.				FACU species 50 x 4 = 200
4.				UPL species 45 x 5 = 225
5.				Column Totals: 100 (A) 440 (B)
6.				Prevalence Index = $B/A = 4.40$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1 Lotus corniculatus	30	Ves	FACU	3 - Prevalence Index is < 3.01
2 Artemisia vulgaris	25	 		4 - Morphological Adaptations ¹ (Provide supporting
2. Contauroa stocho	20	Voc		data in Remarks or on a separate sheet)
Ambrosia artemisiifelia	15	No		Problematic Hydrophytic Vegetation ¹ (Evaluin)
	F	Ne		
5. Engeron canadensis	5 			¹ Indicators of hydric soil and wetland hydrology must be
	5	INO	FAC	present, unless disturbed of problematic.
<i>1.</i>				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
12				
12	100	=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 Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
	,			

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type ¹ Loc ⁷ Texture Remarks (inches) Color (moist) % Color (moist) % Type ¹ Loc ⁷ Texture Remarks (inches) Color (moist) % Color (moist) % Type ¹ Loc ⁷ Texture Remarks (inches) Color (moist) % Color (moist) % Type ¹ Loc ⁷ Texture Remarks (inches) Color (moist) % Color (moist) Molecolor Remarks Remarks (inches) Color (moist) Molecolor Redox Parks Remarks Remarks (inches) Color (moist) Redox Parks Remarks Remarks Remarks (inches) Depteted Retrix (MS Masked Sand Grains. Location: PL=Pore Lining, MeMatrix. (inches) Dark Surface (S7) Polyaulue Below Surface (S8) Indicators for Problematic Hydric Soils ² : Histosic (A1) Marka 1498) Thin Dark Surface (S1) Coast Prairie Redox (A6) Retrix (A1) <th>Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) Color (moist) % Type! Loc² Texture Remarks (inches) Color (moist) Color (moist) Model (moist) Texture Remarks (inches) Color (moist) Color (moist) Totel (moist) Totel (moist) Remarks (inches) Color (moist) Depleted Matrix, MS=Masked Sand Grains. <t< th=""><th>Iatrix Redox Features 0ist) % Color (moist) % Type¹ Loc² Texture Remarks Image: State of the s</th><th>Profile Desc</th><th>cription: (Describe to</th><th>o the dept</th><th>th needed to docu</th><th>iment th</th><th>ne indica</th><th>tor or co</th><th>nfirm the al</th><th>bsence of indicat</th><th>tors.)</th><th></th><th></th></t<></th>	Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) % Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) Color (moist) % Type! Loc ² Texture Remarks (inches) Color (moist) Color (moist) Model (moist) Texture Remarks (inches) Color (moist) Color (moist) Totel (moist) Totel (moist) Remarks (inches) Color (moist) Depleted Matrix, MS=Masked Sand Grains. <t< th=""><th>Iatrix Redox Features 0ist) % Color (moist) % Type¹ Loc² Texture Remarks Image: State of the s</th><th>Profile Desc</th><th>cription: (Describe to</th><th>o the dept</th><th>th needed to docu</th><th>iment th</th><th>ne indica</th><th>tor or co</th><th>nfirm the al</th><th>bsence of indicat</th><th>tors.)</th><th></th><th></th></t<>	Iatrix Redox Features 0ist) % Color (moist) % Type ¹ Loc ² Texture Remarks Image: State of the s	Profile Desc	cription: (Describe to	o the dept	th needed to docu	iment th	ne indica	tor or co	nfirm the al	bsence of indicat	tors.)		
(inches) Color (moist) % Color (moist) % Type Loc* Texture Remarks (inches) Color (moist) % Color (moist) % Texture Remarks (inches) Color (moist) % Type Loc* Texture Remarks (inches) Color (moist) % Type Loc* Texture Remarks (inches) Color (moist) % Type Loc* Texture Remarks (inches) Color (moist) % Texture Remarks Remarks (inches) Color (moist) % Texture Remarks (inches) Color (moist) Red Red Red Red Sand Grains. * * (inches) Color (moist) Dark Surface (S7) Color (moist)	(inches) Color (moist) % Color (moist) % Type Loc Texture Remarks Image: Solution of the second s	jist) % Color (moist) % Type' Loc' Texture Remarks	Depth	Matrix	<u> </u>	Redo	x Featur		. 2	_		_		
Image: Space (A12) Image: Space (A12) Image: Space (Inclust) Image: Space (Inclust)	Image: Standy Below Surface (S7) Standy Below Surface (S7) Histic Epipedon (A2) Dark Surface (S7) Histic Epipedon (A2) Dark Surface (S7) Histic K(A3) MLRA 149B) Hydrid Sall Indicators: Indicators for Problematic Hydric Soil Histic K(A3) Dark Surface (S7) Histic K(A3) Dark Surface (S8) (LRR R, MLRA 149B) Stratified Layers (A5) Thin Dark Surface (S9) (LRR K, L) Depleted Below Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F2) Standy Mucky Mineral (S1) Depleted Atrix (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Marl (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solls ³ :	(inches)	Color (moist)	%	Color (moist)	%	Туре'	Loc ²	Textu	Ire	Rema	rks	
Image: Solid State (A) Image: Solid State (A) Image: Solid State (Image: Stratified Layers (A5) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chrona Sands (S11) (LRR K, L) Stratified Layers (A5) High Chrona Sands (S11) Depleted Matrix (F3) Thin Dark Surface (F7) Measure (A17) Depleted Matrix (S4) Sector R CF) Piedmont Floodplain Soils (F19) (MLR K, L) Stratified Layers (A5) High Chrona Sands (S11) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLR K, L) Stratified Layers (A5) Head Natrix (F3) Red Parent Material (F21) (outside (F7)) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Sandy Redox (S5) Other (Explain in Remarks)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, R) Dark Surface (S7) 2 cm Muck (A10) (LR K, L, R) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Muck (Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) 12) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Red Parent Material (F7) S4) Red X Depressions (F8) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present,												
Image: space of the second strict of the	Image: Space Spac	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :						·						
Image: sective layer (for beserved): Type: Cast Praint (St) Image: sective layer (for beserved): Type: Red Parent Material (F21) (MLRA 145) Image: sective layer (for beserved): Type: Type: Red Parent Material (F21) (MLRA 145) Image: sective layer (for beserved): Type: Rock/Fill Image: sective layer (for beserved): Type: Rock/Fill Type: Red Parent Material (F21) (MLRA 1455) Image: sective layer (for beserved): Type: Rock/Fill Type: Red Parent Material (F21) (MLRA 1455) Image: sective layer (for beserved): Type: Rock/Fill Type: 0	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thick Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A17) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F6) Stratified Layers (S4) Redox Dark Surface (F7) Stratified Synder (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Mari (F10) (LRR K, L) Sandy Redox (S5) Mari (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :			<u> </u>									
Image:	Image:	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. D=nthic strate (S7) D=nthic Surface (S7) D=nthic Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (F12) (MLRA 149B) Redox Dark Surface (F6) S1) Depleted Dark Surface (F7) S4) Red Parent Material (F21) (MLRA 145) Thin Dark Surface (F22) Thin Dark Surfa												
************************************	**Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) 2 cm Muck (A10) (LRR K, L, MLRA Coast Prairie Redox (A16) (LRR K, I) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, I) Black Histic (A3) MLRA 149B) 5 cm Mucky Surface (S8) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MI Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Sandy Aredox (S5)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :						·						
Image:	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Dark Surface (F6) (MLRA 1445, 145, 149B) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Medx (S5) Matri (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :												
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Black Histic (A3) MLRA 149B) Hydric Soil Indicators: Follow Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) MLRA 149B) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Redox (S5) Mal (F10) (LRR K, L) Restrictive Layer (If observed): Type: Type: Rock/Fill Depleted Matrix (S6) Red Parent Material (F21) (MLRA 145) Hydric Soil Present? Yes_	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic (A3) MLRA 149B) 5 cm Muck (A10) (LRR K, L) Hydrigen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck y Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR C) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149B) Red Parent Material (F21) (outside (F21) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Medox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :												
Image:	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrice Soil Indicators: Folyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Loamy Gleyed Matrix (F3) Meck Spodic (A17) Depleted Matrix (F3) Meck Nurface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Medox (S5) Marl (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)						·						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils?: Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 143 Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Muck (A10) (LRR K, L, MLRA 143 Black Histic (A3) MLRA 149B) 5 cm Muck (A10) (LRR K, L) Foro-Manganese Masses (F8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S7) Const Parian Soils (F10) (MLRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F12) (MLR K, L) Piedmont Floodplain Soils (F12) (MLRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA (F42) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) S ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Histerial (F21) (MLRA 1445) S ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) MkRa 144B, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (S1) Depleted Dark Surface (F7) Standy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrig Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Strattlied Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mecky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Type: Rock/Fill Depth (inches): 0	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Matrix (F3) Mult Ra 144B) Redox Dark Surface (F6) Very Shallow Dark Surface (S2) Very Shallow Dark Surface (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ² ; Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 144) Histo (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 144) S cm Muck yPeat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) Histo Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F2) (Outside ML (MLRA 1444, 145, 149B) Redox Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Red VFill Putric Soil Present? Yes No	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, I, Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MI Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3 ¹ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ :		·				·						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 144 Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, K, L, MLRA 149B) 5 cm Muck yPeat or Peat (S3) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) 5 cm Muck yPeat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 144D, 145, 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mari (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Medicators (F2) (MLRA 1445) Sindpresent? Yes_No	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRF K, L) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) 12) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) 149B) Redox Dark Surface (F6) S4) Redox Depressions (F8) Mari (F10) (LRR K, L) 3 ³ Indicators of hydrophytic vegetation and wetland hydrology must be present,												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ . Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 144). Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, MHRA 149B) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mat (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Reck/Fill No Depth (inches): 0 Hydric Soil Present?	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :		·										
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 143) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Coast Prairie Redox (A16) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F3) Red Parent Material (F12) (MLRA 445, 149B) Red Parent Material (F21) (outside ML Very Shallow Dark Surface (F6) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S6) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Heigh Chroma Sands (F21) Depth (inches): 0 Heigh Chroma Sands (F2) Heigh Chroma Sands (F3)	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRF Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 1445, 149B) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Marl (F10) (LRR K, L) Stripped Matrix (S6) Marl (F10) (LRR K, L) Type: Red Parent Material (F21) (outside nu wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: 0 Type: 0 Hortic Soil Present? Yes_No	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRF Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ . Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 144) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mart (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Red Parent Material (F21) (MLRA 145) Type: 0 Heydric Soil Present? Yes	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRE Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present,	-					·						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 144 Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 1449, 145, 149B) Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S6) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Type: Red Parent Material (F21) (MLRA 145) Wetland hydrology must be present, unless disturbed or problematic.	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Wetland Matrix (S6) Red Parent Material (F21) (MLRA 1445) Wetland hydrology must be present, unless disturbed or problematic.	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matri (F10) (LRR K, L)	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149; Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, F Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, Yetratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside ML Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill High Csoil Present? Yes No	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) 3 Marl (F10) (LRR K, L) 3 ³ Indicators of hydrophytic vegetation and wetland hydrology must be present,		·				·						
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	Hydric Soil Indicators:Indicators for Problematic Hydric SoilHistosol (A1)Dark Surface (S7)2 cm Muck (A10) (LRR K, L, MLRAHistic Epipedon (A2)Polyvalue Below Surface (S8) (LRR R, Black Histic (A3)Coast Prairie Redox (A16) (LRR K, L)Hydrogen Sulfide (A4)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat (S3) (LRR Polyvalue Below Surface (S9) (LRR K, L)Stratified Layers (A5)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Depleted Below Dark Surface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRF Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17)Mesic Spodic (A17)Depleted Matrix (F3)Red Parent Material (F21) (outside Very Shallow Dark Surface (F22)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Other (Explain in Remarks)Sandy Redox (S5)Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	Indicators for Problematic Hydric Soils3:Dark Surface (S7)2 cm Muck (A10) (LRR K, L, MLRA 149B)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Coast Prairie Redox (A16) (LRR K, L, R)MLRA 149B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R)Thin Dark Surface (S9) (LRR R, MLRA 149B)Polyvalue Below Surface (S8) (LRR K, L, R)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L, R)Burface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LRR K, L, R)12)Loamy Gleyed Matrix (F2)Piedmont Floodplain Soils (F19) (MLRA 149B)Depleted Matrix (F3)Red Parent Material (F21) (outside MLRA 145149B)Redox Dark Surface (F6)Very Shallow Dark Surface (F22)S1)Depleted Dark Surface (F7)Other (Explain in Remarks)S4)Redox Depressions (F8) Marl (F10) (LRR K, L)3Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145)3	¹ Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mask	ked Sand	Grains.	² L	ocation: PL=Pore	Lining, M=Ma	trix.	
	Histosol (A1)Dark Surface (S7)2 cm Muck (A10) (LRR K, L, MLRAHistic Epipedon (A2)Polyvalue Below Surface (S8) (LRR R, Black Histic (A3)Coast Prairie Redox (A16) (LRR K, L)Hydrogen Sulfide (A4)MLRA 149B)5 cm Mucky Peat or Peat (S3) (LRR Polyvalue Below Surface (S9) (LRR R, MLRA 149B)Stratified Layers (A5)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Depleted Below Dark Surface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRF Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17)Mesic Spodic (A17)Depleted Matrix (F3)Red Parent Material (F21) (outside Very Shallow Dark Surface (F22)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Other (Explain in Remarks)Sandy Redox (S5)Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Red Parent Material (F21) (MLRA 145) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,	Hydric Soil	Indicators:						In	dicators for Prob	olematic Hydr	ic Soils ³ :	
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Coast Prairie Redox (A16) (LRR K, L, F Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, Polyvalue Below Surface (S8) (LRR K, Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, Polyvalue Below Surface (S8) (LRR K, Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside ML Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Depth (inches): 0 Hydric Soil Present? Yes	Histic Epipedon (A2)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Coast Prairie Redox (A16) (LRR K, K, 5 cm Mucky Peat or Peat (S3) (LRR Polyvalue Below Surface (S3) (LRR Polyvalue Below Surface (S8) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)Thin Dark Surface (S9) (LRR R, MLRA 149B)Polyvalue Below Surface (S8) (LRR Polyvalue Below Surface (S9) (LRR K, L)Stratified Layers (A5)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Depleted Below Dark Surface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRR Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17)Mesic Spodic (A17)Depleted Matrix (F3)Red Parent Material (F21) (outside Very Shallow Dark Surface (F22)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Other (Explain in Remarks)Sandy Redox (S5)Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Red Parent Material (F21) (MLRA 149B) 149B) Redox Dark Surface (F6) S1) Depleted Dark Surface (F7) S4) Redox Depressions (F8) Marl (F10) (LRR K, L) 3'Indicators of hydrophytic vegetation and wetland hydrology must be present,	Histosol	(A1)	_	Dark Surface (S7)				2 cm Muck (A1	0) (LRR K, L, I	MLRA 149	B)
Black Histic (A3) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill No Depth (inches): 0 Hydric Soil Present? Yes No	Black Histic (A3)MLRA 149B)5 cm Mucky Peat or Peat (S3) (LRRHydrogen Sulfide (A4)Thin Dark Surface (S9) (LRR R, MLRA 149B)Polyvalue Below Surface (S8) (LRRStratified Layers (A5)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Depleted Below Dark Surface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRFThick Dark Surface (A12)Loamy Gleyed Matrix (F2)Piedmont Floodplain Soils (F19) (MLMesic Spodic (A17)Depleted Matrix (F3)Red Parent Material (F21) (outside(MLRA 144A, 145, 149B)Redox Dark Surface (F6)Very Shallow Dark Surface (F22)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Other (Explain in Remarks)Sandy Redox (S5)Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145) 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present,	Histic Ep	oipedon (A2)	-	Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,		Coast Prairie R	edox (A16) (Ll	RR K, L, R))
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside ML (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Hydric Soil Present? Yes No	Hydrogen Sulfide (A4)Thin Dark Surface (S9) (LRR R, MLRA 149B)Polyvalue Below Surface (S8) (LRRStratified Layers (A5)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Depleted Below Dark Surface (A11)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRFThick Dark Surface (A12)Loamy Gleyed Matrix (F2)Piedmont Floodplain Soils (F19) (MLMesic Spodic (A17)Depleted Matrix (F3)Red Parent Material (F21) (outside(MLRA 144A, 145, 149B)Redox Dark Surface (F6)Very Shallow Dark Surface (F22)Sandy Mucky Mineral (S1)Depleted Dark Surface (F7)Other (Explain in Remarks)Sandy Redox (S5)Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	Thin Dark Surface (S9) (LRR R, MLRA 149B)Polyvalue Below Surface (S8) (LRR K, L)High Chroma Sands (S11) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)Loamy Mucky Mineral (F1) (LRR K, L)Iron-Manganese Masses (F12) (LRR K, L, R)12)Loamy Gleyed Matrix (F2)Depleted Matrix (F3)Red Parent Material (F21) (MLRA 149B)149B)Redox Dark Surface (F6)S1)Depleted Dark Surface (F7)S4)Redox Depressions (F8)Marl (F10) (LRR K, L)3Indicators of hydrophytic vegetation and wetland hydrology must be present,	Black Hi	stic (A3)	-	MLRA 149B	5)				5 cm Mucky Pe	at or Peat (S3)	(LRR K, L	., R)
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	Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRF Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (ML Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) 12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and wetland hydrology must be present,	Stratified	d Lavers (A5)	-	High Chroma S	Sands (S	, , 511) (LRF	, R K. L)	,	Thin Dark Surfa	ce (S9) (LRR	K . L)	,
		12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 149B) 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145) 3Indicators of hydrophytic vegetation and wetland hydrology must be present,	Depleter	d Below Dark Surface	(A11) -	Loamy Mucky	Mineral ((F1) (I RF	RK.I)		 Iron-Manganes	e Masses (F12) (I RR K	IR)
Mick Daik Guildee (K12) Loarity Gloyed Matrix (F2) Including Hodge (K12) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside ML (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Hydric Soil Present? Yes No	Mick Dark Guildee (A12) Loanly Gloyed Matrix (F2) Incomfort Produptian Cons (F10) (Matrix F3) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation	Loaniy Cloyed Matrix (F2) Include Hoodplain Coust (F3) (MLRK 1450) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present,	Thick D	ark Surface (A12)		Loamy Gleved	Matrix ((1 1) (E ICI F2)	(I (, Ľ)		 Piedmont Floor	Inlain Soils (F1	9) (MIRA	149R)
Image: Spould (AT7) Image: Depleted Matrix (F3) Image: Red Parent Material (F21) (bit side ML (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Image: Stripped Matrix (S6) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Depth (inches): 0 Hydric Soil Present? Yes No	(MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation	149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145) Wetland hydrology must be present,	Masia S		-	Depleted Metri		12)			 	torial (E21) (a		1450)) A 446
(MLKA 144A, 145, 149B)		T43D Redox Dark Surface (F6) Very Shallow Dark Surface (F22) (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present,			-		x (F3)	-0)						.A 145
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation an Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation an Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Depth (inches): 0 Hydric Soil Present? Yes No	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Indicators of hydrophytic vegetation Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation	S1) Depleted Dark Surface (F7) Other (Explain in Remarks) S4) Redox Depressions (F8) Indicators of hydrophytic vegetation and Marl (F10) (LRR K, L) Indicators of hydrophytic vegetation and Red Parent Material (F21) (MLRA 145) wetland hydrology must be present,		(A 144A, 145, 149D)	-		unace (F	-0)				ark Sunace (F	22)	
Sandy Gleyed Matrix (S4)	Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L)	S4) Redox Depressions (F8) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and Red Parent Material (F21) (MLRA 145) wetland hydrology must be present,	Sandy M	lucky Mineral (S1)	-	Depleted Dark	Surface	e (⊢7)			Other (Explain i	n Remarks)		
Sandy Redox (S5) Marl (F10) (LRR K, L) Sindicators of hydrophytic vegetation an Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/Fill Depth (inches): 0 Hydric Soil Present? Yes No	Sandy Redox (S5) Marl (F10) (LRR K, L) Indicators of hydrophytic vegetation	Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and Red Parent Material (F21) (MLRA 145) wetland hydrology must be present,	Sandy G	Bleyed Matrix (S4)	-	Redox Depres	sions (F	8)			2			
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Restrictive Layer (if observed): Hydric Soil Present? Yes No		Red Parent Material (F21) (MLRA 145) wetland hydrology must be present,	Sandy R	Redox (S5)	-	Marl (F10) (LR	R K, L)				³ Indicators of hy	/drophytic veg	etation and	
unless disturbed or problematic. Restrictive Layer (if observed): Colspan="2">Type: Rock/Fill Type: Rock/Fill Rock/Fill Ves_ No Depth (inches): 0 Hydric Soil Present? Yes_ No	Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be preser		Stripped	I Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)		wetland hydro	ology must be	present,	
Restrictive Layer (if observed):	unless disturbed or problematic.	unless disturbed or problematic.									unless distur	bed or problem	natic.	
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Depth (inches): 0 Hydric Soil Present? Yes No	Type: Rock/Fill	ived).	Type:	Rock/	Fill									
		Rock/Fill	Depth (i	nches):	0					Hydric S	oil Present?	Yes	No	х
	Depth (inches): 0 Hydric Soil Present? Yes N	Rock/Fill 0 Hydric Soil Present? Yes No X	Dopui (ii							inganie e				
Depth (inches): 0 Hydric Soil Present? Yes No	Type: Rock/Fill		Tupo		/Fill									
		Rock/Fill	Depth (i	nches):	0					Hydric S	Soil Present?	Yes	No	х
Remarks:	Depth (inches): 0 Hydric Soil Present? Yes N	Nock/Fill 0 Hydric Soil Present? Yes No X	Remarks:							-				
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	Depth (inches): 0 Hydric Soil Present? Yes N Remarks:	Rock/Fill Hydric Soil Present? Yes No _X	1											



Project/Site: CHPE		City/County: Bethleh	nem/Albany County	Sampling Date: 9/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: Wet_5B-D
Investigator(s): C. Scrivner & N. Frazer		Section, To	wnship, Range:	
Landform (billside terrace etc.): Elat		alief (concave, conve	ax none): None	Slope %: 0
Subragion (I BD or MI BA); I BD D			72 940128W	
Subregion (LRR of MLRA): LRR R	Lat: 42.54893*N	Long:	-73.84013*77	
Soil Map Unit Name: RhB - Rhinebeck si	Ity clay loam, 3 to 8 percent slopes		NVVI classification:	PSS1
Are climatic / hydrologic conditions on the	site typical for this time of year?	Yes <u>x</u>	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hy	/drologysignificantly disturb	ed? Are "Norn	nal Circumstances" prese	ent? Yes <u>x</u> No
Are Vegetation, Soil, or Hy	/drology naturally problemat	ic? (If needed	d, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Atta	ch site map showing samp	ling point locat	ions, transects, im	portant 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	tland Site ID: Near flag	5B-D-2
Palustrine Scrub Shrub wetland.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is rea	uired; check all that apply)		Surface Soil Cracks	; (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C	28)
Sediment Deposits (B2)	n Living Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)	
Drift Deposits (B3)	n (C4)	Stunted or Stressed	Plants (D1)	
Algal Mat or Crust (B4)	Filled Soils (C6)	X Geomorphic Positio	on (D2)	
Iron Deposits (B5)	2)	Shallow Aquitard (D	03) aliaf (D4)	
Inundation visible on Aenai Imagery		5)	X EAC-Neutral Test (ellel (D4)
Sparsely vegetated concave Sunace	; (D0)			55)
Field Observations:	No V Donth (inchoo);			
Water Table Present? Ves	No X Depth (inches):			
Saturation Present? Yes	No Depth (inches):	Wetlan	d Hydrology Present?	Yes X No
(includes capillary fringe)			, , , , , , , , , , , , , , , , , , , ,	
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	ious inspections), if a	available:	
Remarks:				
Nonuno.				

Sampling Point: Wet_5B-D

·	Absolute	Dominant	Indicator		-	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:		
1. Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species		
2.				That Are OBL, FACW, or FAC:	4	(A)
3				Total Number of Dominant		
4		<u></u>		Species Across All Strata:	4	(B)
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC:	100.0%	(A/B)
7				Prevalence Index worksheet:		
	10	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15')				OBL species 30 x	1 = 30	
1. Viburnum dentatum	35	Yes	FAC	FACW species 42 x	2 = 84	
2. Cornus amomum	25	Yes	FACW	FAC species 62 x	3 = 186	
3. Rhamnus cathartica	10	No	FAC	FACU species 5 x	4 = 20	
4. Fraxinus pennsylvanica	5	No	FACW	UPL species 0 x	5 = 0	
5. Ulmus americana	2	No	FACW	Column Totals: 139 (A	A) 320	(B)
6.				Prevalence Index = B/A =	2.30	
7.		·		Hydrophytic Vegetation Indicat	ors:	
	77	=Total Cover		1 - Rapid Test for Hydrophyti	ic Vegetation	
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%	3	
1. Symphyotrichum puniceum	30	Yes	OBI	X 3 - Prevalence Index is $\leq 3.0^{1}$	I	
2 Futhamia graminifolia	10	No	FAC	4 - Morphological Adaptation	us ¹ (Provide sur	portina
3 Solidago rugosa	5	No	FAC	data in Remarks or on a se	eparate sheet)	perang
4 Solidado canadensis	5	No	FACU	Problematic Hydrophytic Veg	retation ¹ (Expla	in)
5 Toxicodendron radicans	2	No	FAC			
6				¹ Indicators of hydric soil and wetla present, unless disturbed or prob	and hydrology i lematic.	must be
7				Definitions of Vegetation Strata	a:	
8				Tree – Woody plants 3 in (7.6 cr	m) or more in d	iameter
9				at breast height (DBH), regardles	s of height.	amotor
10				Sanling/shrub – Woody plants le	ess than 3 in. Γ	BH
11				and greater than or equal to 3.28	ft (1 m) tall.	
12				Herb - All berbaceous (non-woo	dy) plants rea:	ardloss
	52	=Total Cover		of size, and woody plants less that	an 3.28 ft tall.	ai uless
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines of	greater than 3.2	28 ft in
1		. <u> </u>		height.		
2						
3		. <u> </u>		Vegetation		
4		·		Present? Yes X	No	
		=Total Cover				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)					

Depth	Matrix	o the dep	Redo	ment tn x Featur	e indicat es	or or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/2	95	10YR 3/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
10-19	10YR 4/2	60	10YR 3/6	40	С	M	Loamy/Clayey	Prominent redox concentrations
						 	·	
							·	
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Histosol (Histic Epi Black His Hydroger Stratified X Depleted Thick Dar Mesic Sp (MLR/ Sandy Mu Sandy Gl Sandy Re Stripped	(A1) ipedon (A2) itic (A3) a Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) odic (A17) A 144A, 145, 149B) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Dark Surface (3 Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surfac) ace (S9) Gands (S Mineral (Matrix (I x (F3) urface (F Surface sions (F R K, L) terial (F:	ce (S8) (I (LRR R, 511) (LRF F1) (LRF F2) 6) (F7) 3) 21) (MLR	-RR R, MLRA 1 ₹ K, L) ₹ K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalue Thin Dar Iron-Man Piedmon Red Pare Very Sha Other (E: ³ Indicato wetlan unless	ck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) rganese Masses (F12) (LRR K, L, R) it Floodplain Soils (F19) (MLRA 149B) ent Material (F21) (outside MLRA 145) allow Dark Surface (F22) xplain in Remarks) rs of hydrophytic vegetation and id hydrology must be present, a disturbed or problematic.
Type: Depth (in	ches):						Hydric Soil Presen	nt? Yes <u>X</u> No
Remarks:								

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

Project/Site: CHPE	City/County: Be	ethlehem/Albany County	Sampling Date: 9/27-22
Applicant/Owner: TDI		State: NY	Sampling Point: Upl_5B-D
Investigator(s): C. Scrivner & N. Frazer	Section	n, Township, Range:	
Landform (hillside, terrace, etc.): Flat	Local relief (concave, c	convex, none): None	Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42.5	54897°N L	ong: -73.83991°W	Datum: WGS84
Soil Map Unit Name: RhB - Rhinebeck silty clay loam. 3 to 8	percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this ti	ime of year? Ves	x No (If po e	volain in Remarks)
Are Vegetation Soil or Hydrology oign	vificantly disturbed?	<u> </u>	
	Are		
Are Vegetation, Soil, or Hydrologynatu	urally problematic? (If ne	eded, explain any answers in I	Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sampling point	locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sample	ed Area	
Hydric Soil Present? Yes No	within a Wetl	and? Yes	No <u>X</u>
Wetland Hydrology Present? Yes No	D X If yes, optiona	al Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separ-	ate report.)		
Successional old field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is required: check all tha	it apply)	Surface Soil Cracks	(B6)
Surface Water (A1) Water-Sta	ained Leaves (B9)	Drainage Patterns (E	310)
High Water Table (A2) Aquatic Fa	auna (B13)	Moss Trim Lines (B1	6)
Saturation (A3) Marl Depo	osits (B15)	Dry-Season Water T	able (C2)
Water Marks (B1) Hydrogen	Sulfide Odor (C1)	Crayfish Burrows (C	8)
Sediment Deposits (B2) Oxidized F	Rhizospheres on Living Roots (C3) Saturation Visible or	n Aerial Imagery (C9)
Drift Deposits (B3) Presence	of Reduced Iron (C4)	Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4) Recent Iro	on Reduction in Tilled Soils (C6) Geomorphic Positior	n (D2)
Iron Deposits (B5) Thin Muck	c Surface (C7)	Shallow Aquitard (D3	3)
Inundation Visible on Aerial Imagery (B7) Other (Exp	plain in Remarks)	Microtopographic Re	elief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D	5)
Field Observations:			
Surface Water Present? Yes No X D	Pepth (inches):		
Water Table Present? Yes No X D	Depth (inches):		
Saturation Present? Yes No X D	Depth (inches): W	etland Hydrology Present?	Yes <u>No X</u>
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspection	s), if available:	
Remarks:			
Nemana.			

Sampling Point: Upl_5B-D

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:								
1 Dinus strokus	10	Vac										
Pillus subbus 2.	10	160	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)								
3.				Total Number of Dominant								
4				Species Across All Strata: 6 (B)								
5				Percent of Dominant Species								
6				That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)								
7		<u> </u>		Prevalence Index worksheet:								
	10	=Total Cover		Total % Cover of: Multiply by:								
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>5</u> x 1 = <u>5</u>								
1		<u> </u>		FACW species 10 x 2 = 20								
2				FAC species 10 x 3 = 30								
3				FACU species 52 x 4 = 208								
4				UPL species <u>5</u> x 5 = <u>25</u>								
5.				Column Totals: <u>82</u> (A) <u>288</u> (B)								
6.				Prevalence Index = B/A = 3.51								
7.				Hydrophytic Vegetation Indicators:								
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation								
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%								
1. Lotus corniculatus	10	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹								
2. Euthamia graminifolia	10	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting								
3. Lonicera morrowii	10	Yes	FACU	data in Remarks or on a separate sheet)								
4. Cornus amomum	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)								
5. Oxalis stricta	5	No	FACU	Indiastors of hydric soil and wotland hydrology must be								
6. Lythrum salicaria	5	No	OBL	present, unless disturbed or problematic.								
7. Solidago canadensis	5	No	FACU	Definitions of Vegetation Strata:								
8. Centaurea stoebe	5	No	UPL	Tree Weedy plants 2 in (7.6 cm) or more in diameter								
9. Erigeron canadensis	2	No	FACU	at breast height (DBH), regardless of height.								
10.				Sanling/shrub - Woody plants less than 3 in DBH								
11.				and greater than or equal to 3.28 ft (1 m) tall.								
12.												
	62	=Total Cover		of size, and woody plants less than 3.28 ft tall.								
Woody Vine Stratum (Plot size: 30')		•		Woody vince All woody vince greater than 2.29 ft in								
1. Vitis aestivalis	10	Yes	FACU	height.								
2.												
3.				Hydrophytic								
4.				Present? Yes No X								
	10	=Total Cover										
Remarks: (Include photo numbers here or on a separ	ate sheet.)											
	,											
Depth Matrix Redox Features 0-16 10YR 3/3 100	Profile Desc	ription: (Describe to	o the dep	th needed to docu	ment th	e indica	tor or co	nfirm the absence of	f indicator	s.)		
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Inclusion Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo (most) Type Codo Type Codo (most) Type Codo Type C	Depth (inches)	Matrix	0/	Redo:	x Featur	res Turne ¹		Touturo		Dama	d to	
0-16 10YR 3/3 100 Loamy/Clayey silt loam 0-16 10YR 3/3 100 Loamy/Clayey silt loam 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>(Inches)</td> <td>Color (moist)</td> <td>%</td> <td>Color (moist)</td> <td>%</td> <td>Туре</td> <td>LOC</td> <td>Texture</td> <td></td> <td>Remai</td> <td>KS</td> <td></td>	(Inches)	Color (moist)	%	Color (moist)	%	Туре	LOC	Texture		Remai	KS	
Image: Space (A17) Depleted Matrix (F3) Image: Space (S5) Image: Space (S5) Image: Space (S5) Image: Space (S5) <tr< td=""><td>0-16</td><td>10YR 3/3</td><td>100</td><td></td><td></td><td></td><td></td><td>Loamy/Clayey</td><td></td><td>silt loa</td><td>ım</td><td></td></tr<>	0-16	10YR 3/3	100					Loamy/Clayey		silt loa	ım	
Image: concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soll Indicators: Indicators for Problematic Hydric Solls ³ : Histos (A1) Dark Surface (S7) Histos (A1) Polyvalue Below Surface (S8) (LRR R, Black Histic CA3) MLRA 1498) Straffied Layers (A5) High Chroma Sands (S1) (LRR K, L) Depleted Below Dark Surface (A11) Loarny Gleyed Matrix (F3) Mesic Spodic (A12) Depleted Matrix (F3) Mesic Spodic (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Type: Depleted Dereseins (F8) Type: Depleted Parent Material (F21) (MLRA 145) Performed Matrix (S6) Red Parent Material (F21) (MLRA 145) Performed Matrix (S6) Red Parent Material (F21) (MLRA 145) Performed M												
Image: transmission of the second strain												
Image:												
Image: Subset of the system												
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Interfactor Image: Sector Image: Sector <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>									-			
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Black Histic (A3) MLRA 149B) Hydric Soil Indicators for Problematic Hydric Soils': Coast Prairie Redox (A10) (LRR K, L, R) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Statified Layers (A5) High Chroma Sands (S11) (LR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F2) Matrix (S4) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F6) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Depleted Inches): Depth (inches): Hydric Soil Present? Yes												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ⁵ : Histosol (A1) Dark Surface (S7) Black Histic (A3) Polyvalue Below Surface (S8) (LRR R, Higtogen Sulfide (A4) Stratified Layers (A5) Higt Chroma Sands (S1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Melas Sopodic (A17) Depleted Matrix (F3) Mesic Spodic (S5) Marl (F10) (LRR K, L) Stratified Layers (S5) Marl (F10) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depleted Natrix (S6) Remarks: Hydric Soil Present?												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrigen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mexa 1444, 1445, 149B) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depleted Dark Surface (S5) Depth (inches): Matrix (S6) Remarks: Hydric Soil Present? Yes No X												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Startified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Wetand hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Depletion Depth (inches): Hydric Soil Present? Yes												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Matrix (F3) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Sandy Redox (S5) Matri (F10) (LRR K, L) Stripped Matrix (S4) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes_ No X												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 145) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) Type:												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, LLR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Sandy Redox (S5) Matrix (F10) (LRR K, L) Sandy Redox (S5) Mark (F10) (LRR K, L) Sandy Redox (S5) Mart (F10) (LRR K, L) Sandy Redox (S5) Mart (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type:												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Redox Depleted Matrix (S4) Redox Depressions (F8) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matri (F10) (LRR K, L) Sitipped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Red Parent Material (F21) (MLRA 145) Type: Depth (inches): Depth (inches): Hatrix (S6)												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 1445, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Deleder Surface (F6) Sandy Redox (S5) Marl (F10) (LRR K, L) Sandy Redox (S5) Marl (F10) (LRR K, L) Type: Depth (inches): Depth (inches): Haterial (F21) (MLRA 145) Reemarks: Haterial (F21) (MLRA 145)												
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators: Indicators for Problematic Hydric Soils ³ :	1							2				
Hydric Soli Indicators:	'Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: I	PL=Pore Li	ning, M=Mat	trix.	
Histosti (A1)	Hydric Soli I			Dark Surface (C 7)			Indicators				
Inside Epipedon (A2) Polyvalue Below Surface (36) (LKR K, K, K, K) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Type:	HISTOSOI	(A1) inadan (A2)		Dark Surface (57) w Surfo	oo (SQ) (I			UCK (A10)	(LKK K, L, I ov (A16) (LE		B)
Import Nation (NS) Import Nation (NS) Import Nation (NS) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 149B) Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X Remarks: Mark Stripped Matrix Stripped Matrix Stripped Matrix (F2) Mox X X	Black His	stic (Δ 3)		Polyvalue Belo	w Suriad)	ce (36) (I	-кк к,	COast F	ucky Peat	or Peat (S3)		. <i>)</i> I R)
Industry (M) Intervention Contract (Cos) (Litter), market (Fisc) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Memarks: Hydric Soil Present? Yes No _X	Hydroge	n Sulfide (A4)		Thin Dark Surf:) ace (S9)		MIRA 1	49B) Polyval	ue Below S	Surface (S8)	(IRRK I	L, IX)
	Stratified	Lavers (A5)		High Chroma S	Sands (S	(LICICIC) (1 RF	KI)	Thin Da	ark Surface	(S9) (I RR	(ERRE)	-)
	Depleter	Below Dark Surface	(A11)	Loamy Mucky I	Mineral ((F1) (LRF	ск, <u>–</u> , ск. L)	Iron-Ma	inganese M	Aasses (F12) (LRR K.	L. R)
Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: No X Remarks: Hydric Soil Present? Yes No X	Thick Da	rk Surface (A12)	(,)	Loamv Gleved	Matrix ((· · ·) (=··· F2)	, _,	Piedmo	nt Floodpla	ain Soils (F1	9) (MLRA	149B)
(MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Mesic Sr	podic (A17)		Depleted Matrix	x (F3)	,		Red Pa	rent Materi	ial (F21) (ou	tside MLI	RA 145)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and Sandy Redox (S5) Marl (F10) (LRR K, L) 3Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	(MLR	A 144A, 145, 149B)		Redox Dark Su	Irface (F	6)		Very Sh	allow Dark	Surface (F2	22)	,
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): unless disturbed or problematic. Type: Hydric Soil Present? Pertor No Remarks: No	Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (I	Explain in F	Remarks)		
Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy G	leyed Matrix (S4)		Redox Depress	sions (F8	8)						
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicat	ors of hydr	ophytic vege	etation and	t
unless disturbed or problematic. Restrictive Layer (if observed): Type:	Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	A 145)	wetla	nd hydrolo	gy must be p	oresent,	
Restrictive Layer (if observed): Type: Type:								unles	s disturbed	d or problem	atic.	
Type:	Restrictive L	ayer (if observed):										
Depth (inches): Hydric Soil Present? Yes NoX Remarks:	Туре:											
Remarks:	Depth (ir	nches):						Hydric Soil Prese	nt?	Yes	No	Х
	Remarks:											



Project/Site: CHPE	City/County: Bethlehem	Albany County	Sampling Date: 9/27/22
Applicant/Owner: TDI		State: NY	Sampling Point: Wet_5B-E
Investigator(s): C. Scrivner & N. Frazer	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, r	none): Concave	Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 42.5492°N	Lona: -7	3.83902°W	Datum: WGS84
Soil Map Unit Name: W - Water		NWI classification:	PUBx
		— 	
Are Vianated in the statistical and the statis	res <u>x</u>		
Are vegetation, Soil, or Hydrologysignificantly distu	bed? Are "Normal	Circumstances" presen	t? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, e	xplain any answers in R	Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point location	ns, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetlar	Yes X nd Site ID: Near flag	No 5B-E-6
Remarks: (Explain alternative procedures here or in a separate report.)			
Pond with vegetated banks.			
HYDROLOGY			
Wetland Hydrology Indicators:	<u>Se</u>	econdary Indicators (mi	nimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		_Surface Soil Cracks ((B6)
X High Water Table (A2) Aguatic Fauna (B13)		Drainage Patterns (B	610) 6)
X Saturation (A3) Marl Deposits (B15)	_	Drv-Season Water T	able (C2)
Water Marks (B1) Hydrogen Sulfide Odor	(C1)	Crayfish Burrows (C8	3)
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3)	Saturation Visible on	Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced In	on (C4)	Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	n Tilled Soils (C6)	Geomorphic Position	(D2)
Iron Deposits (B5)Thin Muck Surface (C7)		Shallow Aquitard (D3	3)
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	rks)	Microtopographic Re	lief (D4)
Sparsely Vegetated Concave Surface (B8)	<u>></u>	FAC-Neutral Test (D	5)
Field Observations:			
Surface Water Present? Yes X No Depth (inches)	: 24		
Water Table Present? Yes X No Depth (inches)	: 0		
Saturation Present? Yes X No Depth (inches)	: 0 Wetland H	lydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if avai	ilable:	
Pomorko:			
ולפווומותה.			

Sampling Point: Wet_5B-E

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3 4		·		Total Number of Dominant Species Across All Strata: 2 (B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 42 x 1 = 42
1.				FACW species 8 x 2 = 16
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species x 5 =
5.				Column Totals: 50 (A) <u>58 (B)</u>
6.				Prevalence Index = B/A = 1.16
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Typha latifolia	25	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	15	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Bidens frondosa	8	No	FACW	data in Remarks or on a separate sheet)
4. Scirpus cyperinus	2	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1. The track of the title with and track building the most be
6.				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.		•		and greater than or equal to 3.28 ft (1 m) tall.
12				
	50	=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 tr in height.
2				
3				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			I

Depth Matrix	•	Redov	. Featur	20			
(inches) Color (moist)	% (Color (moist)	%	Type ¹	loc^2	Texture	Remarks
			70	1)00	200	Toxidio	Romano
						21	11.1 NA NA.4.1
Hydric Soil Indicators:	Stion, RIVI=Red	duced Matrix, Ma	5=IVIASK	ed Sand	Jrains.	Location: PL=Pore	Lining, M=Matrix.
Histosol (A1)		Dark Surface (9	27)			2 cm Muck (A10	
Histic Enipedon (A2)		Polyvalue Belov	v Surfac	e (S8) (I	RRR	Coast Prairie Re	$P(\mathbf{L}(\mathbf{K}, \mathbf{K}, \mathbf{L}, \mathbf{M}) \in \mathbf{K} \times \mathbf{I} \times \mathbf{B})$
Black Histic (A3)		MI RA 149B)		.00) (E	ixix ix,	5 cm Mucky Pea	at or Peat (S3) (I RR K. I. R)
Hydrogen Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R.	MLRA 1	49B) Polyvalue Below	/ Surface (S8) (LRR K, L)
Stratified Lavers (A5)		High Chroma S	ands (S	(11) (LRR	K. L)	Thin Dark Surface	ce (S9) (LRR K. L)
Depleted Below Dark Surface	(A11)	Loamy Mucky M	Aineral (F1) (LRR	K. L)	Iron-Manganese	e Masses (F12) (LRR K. L. R
Thick Dark Surface (A12)	()	Loamy Gleved	Matrix (F	=2)	, _,	Piedmont Flood	olain Soils (F19) (MLRA 149
Mesic Spodic (A17)		Depleted Matrix	(F3)	,		Red Parent Mate	erial (F21) (outside MLRA 1
(MLRA 144A, 145, 149B)		- Redox Dark Su	rface (F	6)		Very Shallow Da	ark Surface (F22)
Sandy Mucky Mineral (S1)		- Depleted Dark	Surface	(F7)		X Other (Explain in	n Remarks)
Sandy Gleyed Matrix (S4)		Redox Depress	ions (F8	3)			
Sandy Redox (S5)		Marl (F10) (LRI	R K, L)			³ Indicators of hy	drophytic vegetation and
Stripped Matrix (S6)		Red Parent Mat	terial (F2	21) (MLR	A 145)	wetland hydro	logy must be present,
						unless disturb	ed or problematic.
Restrictive Layer (if observed):							
Туре:							
Depth (inches):							
						Hydric Soil Present?	Yes X No
Pomorko:						Hydric Soil Present?	Yes <u>X</u> No



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22
Applicant/Owner: TDI	State: NY Sampling Point: Upl_5B-E
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Flat	Deal relief (concave, convex, none): None Slope %: 0
Subregion (I RR or MI RA): I RR R Lat: 42.54922°N	Long: -73 83892°W Datum: WGS84
Soil Map Unit Name: RbB - Rhinebeck silty clay loam 3 to 8 percent s	lopes NWL classification: NA
Are elimetic / hudzelegic conditions on the site timical for this time of use	
Are climatic / hydrologic conditions on the site typical for this time of yea	$\frac{1}{2}$ $\frac{1}{10}$
Are vegetation, Soli, or Hydrologysignificantly d	sturbed? Are Normal Circumstances present? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	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	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
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 Leav	res (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 O	dor (C1) Cravfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphe	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	ed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reducti	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface ((C7) Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (incl	nes):
Water Table Present? Yes No X Depth (incl	nes):
Saturation Present? Yes No X Depth (incl	nes): Wetland Hydrology Present? Yes No X
(includes capillary fringe)	—
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	

Sampling Point: Upl_5B-E

	Absolute	Dominant	Indicator	Demission Texture laborat
<u>Iree Stratum</u> (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4.				Species Across All Strata:5(B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 20.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2		<u> </u>		FAC species 10 x 3 = 30
3				FACU species 45 x 4 =180
4				UPL species 45 x 5 =225
5.				Column Totals: 100 (A) 435 (B)
6.				Prevalence Index = $B/A = 4.35$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
1. Centaurea stoebe	35	Yes	UPI	$3 - Prevalence Index is \leq 3.0^{1}$
2 Lotus corniculatus	15	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3 Setaria numila	10	 	FAC	data in Remarks or on a separate sheet)
A Ambrosia artemisiifolia	10	Ves		Problematic Hydrophytic Vegetation ¹ (Evolution)
5 Colium mollugo	10	Voc	EACU	
				¹ Indicators of hydric soil and wetland hydrology must be
6. Daucus carola	5			present, unless disturbed of problematic.
	5		FACU	Definitions of vegetation Strata:
8. Artemisia vulgaris	5	<u>No</u>		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. Solidago canadensis	5	No	FACU	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
	100	=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				height.
2				Hudronbutio
3				Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			·

Depth Co 0-17 1	Matrix lor (moist) 0YR 3/3	% 98	Color (moist)	x Featur	es					
(inches) Co 0-17 1	OYR 3/3	98	Color (moist)		1	. 2			_	
1	0YR 3/3	98		%	Туре	Loc	Texture		Rema	rks
	·		10YR 5/8	2	С	М	Loamy/Claye	y Pro	ominent redox o	concentrations
	·									
<u> </u>										
·										
	·					<u> </u>				
	·									
¹ Type: C=Concentra	ation, D=Deplet	ion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Locati	on: PL=Pore	e Lining, M=Ma	trix.
Hydric Soil Indicate	ors:			0-7)			Indica	tors for Prot	olematic Hydri	c Soils":
Histosol (A1)	(4.0)	-	Dark Surface (S7)			20	cm Muck (A1	0) (LRR K, L, I	
Histic Epipedon	(AZ)	-		w Surrac	ce (58) (L	.KK K,		ast Prairie R	edox (A16) (Lf	$(\mathbf{R}\mathbf{K}, \mathbf{L}, \mathbf{R})$
) e (A4)		Thin Dark Surf) 200 (SQ)			10B) Dr		M Surface (S8)	(LKK K, L, K)
Stratified Lavers	e (Δ5)	-	High Chroma	ace (03) Sands (S			430)10	in Dark Surfa	(S9) (I RR	
Depleted Below	Dark Surface (A11) -	Loamy Mucky	Mineral (F1) (LRF	(K, L)	Irc	in Dark Sund n-Manganes	e Masses (F12	
Thick Dark Surf	ace (A12)		Loamy Gleved	Matrix (F	= 1) (E RI	· · · , ∟)		edmont Floor	Inlain Soils (F1	9) (MI RA 149R)
Mesic Spodic (A	.17)	-	Depleted Matri	x (F3)	_,		R	ed Parent Ma	terial (F21) (o u	tside MLRA 145
(MLRA 144A	, 145, 149B)	-	Redox Dark Su	urface (F	6)			ery Shallow D	ark Surface (F	22)
Sandy Mucky M	ineral (S1)	-	Depleted Dark	Surface	, (F7)		Ot	her (Explain	in Remarks)	,
Sandy Gleyed M	latrix (S4)	-	Redox Depres	sions (F8	3)			· ·	,	
Sandy Redox (S	5)	-	Marl (F10) (LR	R K, L)			³ Ir	dicators of h	ydrophytic vege	etation and
Stripped Matrix	(S6)	-	Red Parent Ma	aterial (F	21) (MLR	A 145)		wetland hydr	ology must be	oresent,
		_						unless distur	bed or problem	atic.
Restrictive Layer (in	f observed):									
Туре:										
Depth (inches):							Hydric Soil F	Present?	Yes	No X
Remarks:										



Project/Site: CHPE		City/County: Bethler	nem/Albany County	Sampling Date: 9/27/22
Applicant/Owner: TDI			State: NY	Sampling Point: Wet_5B-F
Investigator(s): <u>C. Scrivner & N. Frazer</u>		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): Depress	ion Local r	elief (concave, conve	ex, none): <u>Concave</u>	Slope %: 3
Subregion (LRR or MLRA): LRR R	Lat: 42.54896°N	Long:	-73.83905°W	Datum: WGS84
Soil Map Unit Name: RhB - Rhinebeck silty	clay loam, 3 to 8 percent slopes		NWI classification:	PSS1
Are climatic / hvdrologic conditions on the sit	e typical for this time of year?	Yes x	No (If no.	explain in Remarks.)
Are Vegetation . Soil . or Hvdr	ology significantly disturb	ed? Are "Norr	mal Circumstances" prese	ent? Yes x No
Are Vegetation Soil or Hydr	ology naturally problemat	ic? (If needed	d explain any answers in	Remarks)
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	ions, transects, im	portant 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	lf yes, optional We	atland Site ID: Near flag	g 5B-F-4
Remarks: (Explain alternative procedures h	ere or in a separate report.)			
Palustrine scrub shrub wetland.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (r	ninimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks	s (B6)
X Surface Water (A1)	Water-Stained Leaves (B	9)	X Drainage Patterns	(B10)
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E	316)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	21) 	Crayfish Burrows (C8)
Sediment Deposits (B2)		n Living Roots (C3) \sim	X Saturation Visible C	on Aerial Imagery (C9)
Dhit Deposits (B3)	Presence of Reduced ito	Tilled Seile (C6)	X Coomorphic Positi	(D2)
Iron Denosits (B5)	Thin Muck Surface (C7)		Shallow Aquitard () (22)) (22)
Inundation Visible on Aerial Imagery (B	 Other (Explain in Remark 	s)	Microtopographic R	Relief (D4)
Sparsely Vegetated Concave Surface (38)		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):	6		
Saturation Present? Yes X	No Depth (inches):	0 Wetlan	nd Hydrology Present?	Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, me	onitoring well, aerial photos, prev	ious inspections), if a	available:	
Remarks:				

Sampling Point: Wet_5B-F

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.				
2.				That Are OBL, FACW, or FAC:5 (A)
3				Total Number of Dominant Species Across All Strata: 5 (B)
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>35</u> x 1 = <u>35</u>
1. Cornus amomum	45	Yes	FACW	FACW species 70 x 2 = 140
2. Rhamnus cathartica	25	Yes	FAC	FAC species x 3 =75
3				FACU species 0 x 4 = 0
4		<u> </u>		UPL species <u>5</u> x 5 = <u>25</u>
5				Column Totals: <u>135</u> (A) <u>275</u> (B)
6				Prevalence Index = B/A =2.04
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Persicaria sagittata	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Bidens frondosa	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Lythrum salicaria	15	Yes	OBL	data in Remarks or on a separate sheet)
4. Artemisia vulgaris	5	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Epilobium ciliatum	5	No	FACW	
6.				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				Sanling/shrub – Woody plants less than 3 in DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb - All berbaceous (non-woody) plants, regardless
	65	=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 2.28 ft in
1.				height.
2.				
3.				Hydrophytic Manatotics
4.				Present? Yes X No
		=Total Cover		
Pamarks: (Include photo numbers here or on a sena	rate sheet)	-		
Remarks. (include photo numbers here of on a sepa	ale sheel.)			

Profile Descr	iption: (Describe t	o the dep	oth needed to docu	ment th	e indica	or or co	nfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featur	es	2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-7	10YR 3/1	90	10YR 3/6	10	С	М	Loamy/Clayey	Prominent redox concentrations
7-15	10YR 3/2	70	10YR 3/6	30	С	М	Loamy/Clayey	Prominent redox concentrations
15-20	10YR 4/2	60	10YR 3/4	35	С	М	Loamy/Clayey	Distinct redox concentrations
			10YR 2/1	5	С	М		Faint redox concentrations
		·						
¹ Type: C=Cor	ncentration, D=Deple	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil In	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)		Dark Surface (S7)			2 cm M	uck (A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast F	Prairie Redox (A16) (LRR K, L, R)
	IIC (A3)		Thin Dark Surf) 200 (SQ)			5 cm M	ucky Peat of Peat (S3) (LRR K, L, R)
Stratified	Lavers (A5)		High Chroma S	ace (39) Sands (S	(LNN N, (11) (1 RF		Thin Da	ark Surface (S9) (IRR K I)
Depleted	Below Dark Surface	(A11)	Loamv Muckv I	Mineral (F1) (LRF	R K. L)	Iron-Ma	anganese Masses (F12) (LRR K. L. R)
Thick Dar	k Surface (A12)	()	Loamy Gleyed	Matrix (F	=2)	, ,	Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Mesic Spo	odic (A17)		Depleted Matrix	x (F3)			Red Pa	rent Material (F21) (outside MLRA 145)
(MLRA	A 144A, 145, 149B)		X Redox Dark Su	ırface (F	6)		Very Sh	nallow Dark Surface (F22)
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (I	Explain in Remarks)
Sandy Gle	eyed Matrix (S4)		Redox Depress	sions (F8	3)		2	
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			°Indicat	ors of hydrophytic vegetation and
Stripped M	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLF	A 145)	wetla	nd hydrology must be present,
Restrictive La	ayer (if observed):						unies	
Type:	,							
Depth (ind	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



Project/Site: CHPE			City/County: Bethleh	em/Albany County	Sampling Date: 9/27/22
Applicant/Owner: TDI				State: NY	Sampling Point: Upl_5B-F
Investigator(s): C. Scrivner 8	N. Frazer		Section, Tov	vnship, Range:	
Landform (hillside terrace etc	;): Hillslope	l ocal re	elief (concave, conve	x none): Concave	Slope %: 10
Subregion (LPR or MLRA):		Lat: 42.54800°N		-73 83884°W/	Ootum:WGS84
Soil Mon Unit Name: BhR		Lat. 42.04035 N	Long.		
	Thinebeck Silly Clay	ioani, 5 to 6 percent slopes			
Are climatic / hydrologic condi	tions on the site typi	ical for this time of year?	Yes <u>x</u>	No (If no, o	explain in Remarks.)
Are Vegetation, Soil	, or Hydrolog	ysignificantly disturb	ed? Are "Norm	nal Circumstances" prese	nt? Yes x No
Are Vegetation, Soil	, or Hydrolog	ynaturally problemat	ic? (If needed	l, explain any answers in	Remarks.)
SUMMARY OF FINDING	3S – Attach sit	e map showing samp	oling point locati	ions, transects, im	portant features, etc.
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present?	ent? Ye Ye Ye	es <u>No X</u> es <u>No X</u> es No X	Is the Sampled Ar within a Wetland? If yes, optional Wet	ea Yes tland Site ID:	No <u>X</u>
Remarks: (Explain alternativ Successional old field. Hillslo	e procedures here o pe.	or in a separate report.)			
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (m	ninimum 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	9)	Drainage Patterns (B10)
High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	_	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C	(8)
Sediment Deposits (B2)	_	Oxidized Rhizospheres of	n Living Roots (C3)	Saturation Visible of	n Aerial Imagery (C9)
Drift Deposits (B3)	_	Presence of Reduced Iro	n (C4)	Stunted or Stressed	l Plants (D1)
Algal Mat or Crust (B4)	_	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positio	n (D2)
Iron Deposits (B5)	_	Thin Muck Surface (C7)		Shallow Aquitard (D	3)
Inundation Visible on Ae	rial Imagery (B7)	Other (Explain in Remark	s)	Microtopographic R	elief (D4)
Sparsely Vegetated Con	cave Surface (B8)			FAC-Neutral Test (I	25)
Field Observations:					
Surface Water Present?	Yes N	lo X Depth (inches):			
Water Table Present?	Yes N	lo X Depth (inches):			
Saturation Present?	Yes N	lo X Depth (inches):	Wetlan	d Hydrology Present?	Yes <u>No X</u>
(includes capillary fringe)					
Describe Recorded Data (str	eam gauge, monito	ring well, aerial photos, prev	ious inspections), if a	vailable:	
Remarks:					

Sampling Point: Upl_5B-F

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7.		·		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 0 $x 1 = 0$
1. Cornus amomum	45	Yes	FACW	FACW species 47 x 2 = 94
2. Rhamnus cathartica	25	Yes	FAC	FAC species $35 \times 3 = 105$
3				FACU species 78 $x 4 = 312$
4				$\frac{1}{100} \text{ species } 0 \text{ x5} = 0$
5		·		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6		·		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytic Vegetation Indicators:
	70	-Total Covor		1 Papid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
	25	Voo	EACU	$\frac{2}{2} = \frac{2}{2} = \frac{1}{2} = \frac{1}{2}$
	10	No		S - Frevalence index is \$5.0
	ī0	No		data in Remarks or on a separate sheet)
3. Rubus allegneniensis	5	<u> </u>		
4. Lotus conficulatus	5 			
5. Ambrosia artemisinolia	5		FACU	¹ Indicators of hydric soil and wetland hydrology must be
6. Solidago canadensis	3		FACU	present, unless disturbed or problematic.
7. Bidens frondosa	2		FACVV	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.		·		
	65	=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. Parthenocissus quinquefolia	20	Yes	FACU	height.
2. <u>Vitis aestivalis</u>	5	Yes	FACU	Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
	25	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment th	e indica	or or co	nfirm the absence of inc	dicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
0-17	10YR 3/4	100					Loamy/Clayey		
———									
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=	Pore Lining, M=Ma	trix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydri	c Soils ³ :
Histosol ((A1)	-	Dark Surface (S7)			2 cm Muck	(A10) (LRR K, L, I	MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Prair	rie Redox (A16) (LF	RR K, L, R)
Black His	tic (A3)		MLRA 149B)			5 cm Muck	y Peat or Peat (S3)	(LRR K, L, R)
Hydroger	n Sulfide (A4)	-	Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue E	Below Surface (S8)	(LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	511) (LRF	R K, L)	Thin Dark S	Surface (S9) (LRR	K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral ((F1) (LRF	κ, L)	Iron-Manga	anese Masses (F12	(LRR K, L, R)
	rk Surface (A12)	-	Loamy Gleyed	Matrix (I	-2)			-loodplain Solls (F1	9) (MLRA 149B)
		-	Depleted Matri	X (F3) ⊮facc /⊑	(C)			t Material (F21) (ou	Itside MLRA 145)
	4 144A, 145, 149D)				0) (FZ)		Very Shallo		22)
Sandy M	eved Matrix (S1)	-	Depieted Dark	Sunace	(<i>Г1)</i> 8)			iain in Remarks)	
Sandy Br	eyed Matrix (34)	-	Marl (F10) (I R	R K I)	5)		³ Indicators	of hydrophytic year	etation and
Stripped	Matrix (S6)	-	Red Parent Ma	terial (F	21) (MLR	A 145)	wetland	hvdrology must be i	present.
	(-				····,	unless di	isturbed or problem	atic
Restrictive L	aver (if observed):								
Type:	,								
Denth (in	ches).						Hydric Soil Present?	Yes	No X
Remarks:									



			•		
Project/Site: CHPE	(City/County: Bethlehe	em/Albany County	Sampling Date: 9/27/22	
Applicant/Owner: <u>TDI</u>			State: NY	Sampling Point: <u>Wet_5B-F</u>	
Investigator(s): C. Scrivner & N. Frazer		Section, Tow	/nship, Range:		
Landform (hillside, terrace, etc.): Depression	Local rel	lief (concave, convex	, none): Concave	Slope %: 4	
Subregion (I BR or MI BA): I BB B	Lat: 42.54835°N	Long.	-73 83658°W	Datum: WGS84	
Soil Man Unit Name: HuE - Hudson silt loam 2	5 to 45 percent slopes	2011g.	NWI classification:	PFM1	
Are climatic / hydrologic conditions on the site typ	ocal for this time of year?	Yes <u>x</u>	No (If no, e	explain in Remarks.)	
Are Vegetation, Soil, or Hydrolog	ysignificantly disturbe	ed? Are "Norm	al Circumstances" prese	ent? Yes <u>x</u> No	
Are Vegetation, Soil, or Hydrolog	ynaturally problemation	c? (If needed	, explain any answers in	Remarks.)	
SUMMARY OF FINDINGS – Attach sit	e map showing samp	ling point locati	ons, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	es X No	Is the Sampled Ar	ea		
Hydric Soil Present? Ye	es X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present? Ye	es X No	If yes, optional Wet	land Site ID: Near flag	5B-F-9	
Persistent Palustrine Emergent Marsh.					
HYDROLOGY					
Watland Hydrology Indiastora			Sacandary Indicators (m	ainimum of two required)	
Primary Indicators (minimum of one is required)	abook all that apply)		Surface Soil Creake	(Re)	
Surface Water (A1)	Water-Stained Leaves (R0)	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 (C	1)	Crayfish Burrows (C	28)	
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3)	Saturation Visible of	n Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron	(C4)	Stunted or Stressed	Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in T	Filled Soils (C6)	X Geomorphic Positio	on (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	03)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	5)	Microtopographic R	elief (D4)	
Sparsely Vegetated Concave Surface (B8)			X FAC-Neutral Test (I	D5)	
Field Observations:					
Surface Water Present? Yes N	No X Depth (inches):				
Water Table Present? Yes N	No X Depth (inches):		d Ukuda da mu Daa aa wa	Vee V Ne	
(includes capillary fringe)	Depth (inches):		a Hydrology Present?		
(includes capillary ininge)	ring well aerial photos previo	ous inspections) if a	vailable:		
Describe Recorded Data (Stream gauge, monito	ning weil, aenai priotos, previo				
Remarks:					

Sampling Point: Wet_5B-F

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: <u>3</u> (A)
3		. <u> </u>		Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 80 x 1 = 80
1				FACW species <u>15</u> x 2 = <u>30</u>
2		<u> </u>		FAC species <u>5</u> x 3 = <u>15</u>
3		.		FACU species 0 x 4 = 0
4		.		UPL species 0 x 5 = 0
5				Column Totals: 100 (A) 125 (B)
6				Prevalence Index = B/A = 1.25
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb <u>Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2. Scirpus atrovirens	25	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Carex vulpinoidea	25	Yes	OBL	data in Remarks or on a separate sheet)
4. Phragmites australis	5	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Epilobium ciliatum	5	No	FACW	
6. Solidago gigantea	5	No	FACW	'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Euthamia graminifolia	5	No	FAC	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		<u> </u>		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
	100	=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				height.
2				It-de-ab. die
3.		.		Hydropnytic Vegetation
4.		.		Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe t	o the dep	oth needed to docu	ment th	e indica	or or co	nfirm the absence of	indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 3/2	95	10YR 4/6	5	С	М	Loamy/Clayey	Prominent redox concentrations		
6-16	10YR 4/2	60	10YR 2/1	5	С	М	Loamy/Clayey	Faint redox concentrations		
			10YR 4/6	35	С	M		Prominent redox concentrations		
							·			
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:			07)			Indicators f	or Problematic Hydric Soils ³ :		
Histosol	(A1)		Dark Surface (57)	(00) (2 cm Mu	JCK (A10) (LRR K, L, MLRA 149B)		
HISTIC EP	ipedon (A2)			w Surrao	ce (58) (L	.RR R,	Coast P	raine Redox (A16) (LRR K, L, R)		
Black This	$\Delta Sulfide (\Delta A)$		Thin Dark Surf) 200 (90)		MIRA 1		a Below Surface (S8) (IRR K I)		
Stratified	Lavers (A5)		High Chroma S	Sands (S	(LINK IX,	KI)	Thin Da	rk Surface (S9) (I BB K I)		
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral ((LRF	ск, _,	Iron-Manganese Masses (F12) (LRR K. L. R)			
Thick Da	rk Surface (A12)	(,,,,,)	Loamy Gleved	Matrix (F2)	, _/	Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Sp	odic (A17)		X Depleted Matri	x (F3)	,		Red Par	rent Material (F21) (outside MLRA 145)		
(MLR	A 144A, 145, 149B)		X Redox Dark Su	urface (F	6)		Very Sh	allow Dark Surface (F22)		
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)		
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F8	3)					
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicato	ors of hydrophytic vegetation and		
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLR	A 145)	wetland hydrology must be present,			
Restrictive I	aver (if observed):						unless	s disturbed or problematic.		
Type:	ayer (il observed).									
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No		
Remarks:	·						-			
rtomanto.										
1										



Project/Site: CHPE		City/County: Bethleh	em/Albany County Sa	ampling Date: 9/27/22			
Applicant/Owner: TDI			State: NY	Sampling Point: Upl_5B-F			
Investigator(s): C. Scrivner & N. Frazer		Section, Tow	nship, Range:				
Landform (billside terrace etc.): Slight	nt hillslope Local r		none): Convex	Slope %: 2			
Subragion (LPD or MLPA): LPD P			72 9265%//				
	Lat. 42.04029 N	Long.	NW/L clossification: N				
	ioani, 25 to 45 percent slopes			A			
Are climatic / hydrologic conditions on the	e site typical for this time of year?	Yes <u>x</u>	No (If no, exp	lain in Remarks.)			
Are Vegetation, Soil, or H	-lydrologysignificantly disturb	bed? Are "Norm	al Circumstances" present?	Yes <u>x</u> No			
Are Vegetation, Soil, or H	Hydrology naturally problema	tic? (If needed	explain any answers in Rer	marks.)			
SUMMARY OF FINDINGS – Atta	ach site map showing sam	pling point locati	ons, transects, impo	rtant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	lo X			
Wetland Hydrology Present?	Yes No X	If yes, optional Wet	and Site ID:				
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (minir	num of two required)			
Primary Indicators (minimum of one is r	equired; check all that apply)		Surface Soil Cracks (B	6)			
Surface Water (A1)	Water-Stained Leaves (E	39)	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 (0	C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)		on Living Roots (C3)	g Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Presence of Reduced in	Tilled Soils (C6)	(C4)Stunted of Stressed Plants (D1)				
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imager	v (B7) Other (Explain in Remark	(S)	Microtopographic Relie	f (D4)			
Sparsely Vegetated Concave Surfa	ce (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 <u>No X</u>			
(includes capillary fringe)							
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, prev , monitoring well, aerial photos, prev	vious inspections), if a	vailable:				
Remarks:							

Sampling Point: Upl_5B-F

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3				Total Number of Dominant
4.		<u> </u>		Species Across All Strata: <u>5</u> (B)
5 6		- <u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		-		OBL species 0 x 1 = 0
1. Cornus amomum	45	Yes	FACW	FACW species 47 x 2 = 94
2. Rhamnus cathartica	25	Yes	FAC	FAC species 25 x 3 = 75
3.				FACU species 58 x 4 = 232
4.				UPL species 40 x 5 = 200
5.				Column Totals: 170 (A) 601 (B)
6.				Prevalence Index = $B/A = 3.54$
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
1. Lotus corniculatus	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2 Centaurea stoebe	20	Yes	UPI	4 - Morphological Adaptations ¹ (Provide supporting
3 Artemisia vulgaris	20	Yes		data in Remarks or on a separate sheet)
4. Solidago canadensis	15	<u> </u>	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Plantago lanceolata	6	No	FACU	
6 Solidago altissima	5	No	FACU	Indicators of hydric soil and wetland hydrology must be
7 Symphyotrichum novae-angliae	2	No	FACW	Definitions of Vegetation Strata
8 Cirsium vulgare	2	<u> </u>	FACU	
9			1760	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
11		·		and greater than or equal to 3.28 ft (1 m) tall.
12	100	=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 Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL

Profile Description: (Describe to th	ne depth	needed to docu	ment th	e indicat	or or co	nfirm the absence of inc	licators.)		
Depth	Matrix		Redo	x Featur	es					
(inches) Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	irks	
0-12 10Y	R 3/3	100					Loamy/Clayey			
<u>12-17</u> 10Y	R 4/4	90	7.5YR 5/6	10	С	M	Loamy/Clayey	Distinct redox c	oncentrations	
					_	_				
					—	—				
					_	_				
'Type: C=Concentratio	n, D=Depletio	n, RM=R	educed Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=	Pore Lining, M=Ma Problematic Hydr	itrix. ic Soils ³ :	
Histosol (A1)	•		Dark Surface (S7)			2 cm Muck		MI RA 149B)	
Histic Epipedon (A)	2)		Polyvalue Belo	w Surfac	e (S8) (L	RR R.	Coast Prair	ie Redox (A16) (L	RR K. L. R)	
Black Histic (A3)	-)	_	MLRA 149B)		,	5 cm Muck	v Peat or Peat (S3) (LRR K. L. R)	
Hydrogen Sulfide (/	44)		Thin Dark Surf	, ace (S9)	(LRR R.	MLRA 1	49B) Polyvalue F	Below Surface (S8)	(LRR K. L)	
Stratified Lavers (A	5)		High Chroma S	Sands (S	(,	(K I)	Thin Dark S	Surface (S9) (I RR	K I)	
Depleted Below Da	rk Surface (A	11) —	loamy Mucky	Mineral (F1) (LRF	2 K. L)	Iron-Manganese Masses (F12) (LRR K. L. R)			
Thick Dark Surface	(A12)		Loamy Gleved	Matrix (F		, _/	Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Spodic (A17)		Depleted Matri	x (F3)	_/		Red Parent Material (F21) (outside MI RA 1496)			
(MI RA 144A 1	/ 15 149R)	_	Redox Dark Si	rface (F	6)		Very Shallow Dark Surface (E22)			
Sandy Mucky Mine	ral (S1)	_	 Depleted Dark	Surface	(F7)		Other (Evplain in Remarks)			
Sandy Macky Mine	ix (S4)	_	Bedox Depres	sions (F	(1 <i>7)</i> R)					
Sandy Bedox (S5)		_	Marl (F10) (I R	RKI)	,		³ Indicators of hydrophytic vegetation and			
Stripped Matrix (S6)		Red Parent Ma	$\mathbf{K} \mathbf{K}, \mathbf{L}$	21) /MI D	A 145)	wetland hydrology must be present			
)						unless disturbed or problematic.			
Restrictive Layer (if ol	oserved):							·		
Depth (inches):							Hydric Soil Present?	Yes	No X	
Remarks:										



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22							
Applicant/Owner: TDI	State: NY Sampling Point: Wet_5B-G							
Investigator(s): C. Scrivner & N. Frazer	Section. Township. Range:							
Landform (billside terrace etc.): Depression Local	relief (concave convex none): Concave Slope %: 2							
Subregion (LRR or MLRA): LRR R Lat: 42 54003°N								
Soil Man Linit Name: PhB - Phineheck silty clay loam 3 to 8 percent slope								
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 disturbed? Are "Normal Circumstances" present? Yes No								
Are Vegetation, Soil, or Hydrologynaturally problematic? (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: Near flag 5B-G-3							
Persistent Palustrine 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)							
Surface Water (A1) Water-Stained Leaves (B9) X Drainage Patterns (B10)							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide Odor	(C1) Crayfish Burrows (C8)							
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3) Presence of Reduced Ir	on (C4) Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4)Recent Iron Reduction i	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 Rema	ks) Microtopographic Relief (D4)							
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)								
(includes capillary fringe)								
Describe Recorded Data (stream gauge monitoring well aerial photos, pre	vious inspections) if available:							
Remarke:								

Sampling Point: Wet_5B-G

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: 3 (A)
3		·		Total Number of Dominant Species Across All Strata:4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species60 x 1 =60
1. Rhamnus cathartica	10	Yes	FAC	FACW species <u>5</u> x 2 = <u>10</u>
2				FAC species 10 x 3 = 30
3				FACU species 15 x 4 = 60
4				UPL species 20 x 5 = 100
5.				Column Totals: 110 (A) 260 (B)
6.				Prevalence Index = B/A = 2.36
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Persicaria sagittata	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Centaurea stoebe	20	Yes	UPL	data in Remarks or on a separate sheet)
4. Symphyotrichum puniceum	15	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Solidago altissima	15	No	FACU	
6. Juncus effusus	5	No	OBL	indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Symphyotrichum novae-angliae	5	No	FACW	Definitions of Vegetation Strata:
8.		- <u> </u>		
9.		- <u> </u>		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				
	100	=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')				
1.				Woody vines – All woody vines greater than 3.28 ft in height
2		·		- Torgani
3		·		Hydrophytic
4		·		Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-		
	···· · · · ,			

Depth	Matrix	o ille dep	Redo	x Featur	es			indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks
0-6	10YR 3/2	95	10YR 4/6	5	С	М	Loamy/Clayey	Prominent redo	x concentrations
6-16	10YR 4/2	70	10YR 4/6	30	С	<u>M</u>	Loamy/Clayey	Prominent redo	x concentrations
						 	·		
							·		
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: P	L=Pore Lining, M=N	Matrix.
Histosol (Histic Epi Black His Hydroger Stratified X Depleted Thick Dar Mesic Sp (MLRA Sandy Mt Sandy Gl Sandy Re Stripped I	(A1) ipedon (A2) itic (A3) a Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) odic (A17) A 144A, 145, 149B) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matria X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (Ft R K, L) uterial (F	ce (S8) (L (LRR R, 11) (LRF (F1) (LRF F2) (F7) (F7) 3) 21) (MLR	.RR R, MLRA 1 R K, L) R K, L)	2 cm Mu Coast Pi 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Red Pan Very Sha Other (E ³ Indicato wetlar unless	ack (A10) (LRR K, L rairie Redox (A16) (ucky Peat or Peat (S ue Below Surface (S rk Surface (S9) (LR nganese Masses (F nt Floodplain Soils (rent Material (F21) (allow Dark Surface Explain in Remarks) ors of hydrophytic ve nd hydrology must b s disturbed or proble	., MLRA 149B) (LRR K, L, R) (3) (LRR K, L, R) (3) (LRR K, L) (3) (LRR K, L) (12) (LRR K, L, R) (12) (MLRA 149B) (14) (MLRA 149B) (15) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14)
Type: _	ches):						Hydric Soil Preser	nt? Yes_	X No
Remarks:									



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22							
Applicant/Owner: TDI	State: NY Sampling Point: UpI_5B-G							
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:							
Landform (hillside, terrace, etc.): Flat	ocal relief (concave, convex, none): None Slope %: 0							
Subregion (LRR or MLRA): LRR R Lat: 42.54899°N	long: -73.83721°W Datum: WGS84							
Soil Map Unit Name: RhB - Rhinebeck silty clay loam. 3 to 8 percent s	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 Hydrologysignificantly of	listurbed? Are "Normal Circumstances" present? Yes <u>x</u> No							
Are Vegetation, Soil, or Hydrologynaturally prob	ematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing s	sampling 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 <u>No X</u>							
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:							
Mowed/Maintained utility Right-of-Way.	.)							
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1)Water-Stained Leav	9) Drainage Patterns (B10)							
High Water Table (A2)	3) Moss Trim Lines (B16)							
Saturation (A3)Marl Deposits (B15)) Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide O	dor (C1) Crayfish Burrows (C8)							
Sediment Deposits (B2) Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3) Presence of Reduc	ed Iron (C4)Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4) Recent Iron Reduct	ion in Tilled Soils (C6) Geomorphic Position (D2)							
Iron Deposits (B5)	(C7) Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7)Other (Explain in Re	emarks)Microtopographic Relief (D4)							
Field Observations:								
Sufface Water Plesent? YesNo_XDepth (inc	hes):							
Saturation Present? Yes No X Depth (inc	hes): Wetland Hydrology Present? Yes No X							
(includes capillary fringe)	··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· _							
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:							
Remarks [.]								
Romano.								

Sampling Point: Upl_5B-G

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:0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
5. 6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.		,		FACU species 75 x 4 = 300
4.				UPL species 15 x 5 = 75
5.				Column Totals: 100 (A) 405 (B)
6				Prevalence Index = $B/A = 4.05$
7		·		Hydrophytic Vegetation Indicators:
		-Total Cover		1 - Panid Test for Hydrophytic Vegetation
Harh Stratum (Plot size: 5')				2 - Dominance Test is \$50%
	50	Vee		
1. Poa pratensis	50	Yes	FACU	3 - Prevalence index is ≤3.0
2. Plantago lanceolata	15	Yes	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. <u>Centaurea stoebe</u>	10	No		
4. Lotus corniculatus	10	No	FACU	Problematic Hydrophytic Vegetation' (Explain)
5. <u>Setaria pumila</u>	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must be
6. Daucus carota	5	No	UPL	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				Sepling/shrub – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover		Herb – All nerbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woodv Vine Stratum (Plot size: 30')				
1. <u> </u>				Woody vines – All woody vines greater than 3.2σ m in height.
2				
2				Hydrophytic
3				Vegetation Procent? Ves No X
4		Total Cover		
		= lotal Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	cription: (Describe to	o the dept	n needed to docu	ment th	e indica	or or co	nfirm the absence of	indicators.)		
Deptn (inchoo)	Matrix	0/	Redo	x Featur	Turne ¹	1.0.02	Taxtura	Dom	arka	
(Inches)	Color (moist)	%	Color (moist)	%	Туре	LOC	Texture	Rem	iarks	
0-16	10YR 3/3	100					Loamy/Clayey			
1		<u> </u>								
¹ Type: C=Co	oncentration, D=Deple	etion, RM=F	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: P	L=Pore Lining, M=M	latrix.	
Hydric Soil	Indicators:						Indicators for	or Problematic Hyd	Iric Soils ³ :	
Histosol	(A1)	_	Dark Surface (S7)			2 cm Mu	uck (A10) (LRR K, L ,	, MLRA 149B)	
Histic Ep	pipedon (A2)	_	Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hi	stic (A3)		MLRA 149B)			5 cm Mu	ucky Peat or Peat (S	3) (LRR K, L, R)	
Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalu	e Below Surface (S8	8) (LRR K, L)	
Stratified	d Layers (A5)		High Chroma S	Sands (S	611) (LRF	R K, L)	Thin Da	rk Surface (S9) (LRF	R K, L)	
Depleted	d Below Dark Surface	(A11)	Loamy Mucky	Mineral ((F1) (LRF	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (I	F2)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Spodic (A17)			Depleted Matri	Depleted Matrix (F3)				ent Material (F21) (c	outside MLRA 145	
(MLRA 144A, 145, 149B)			Redox Dark Su	Irface (F	6)		Very Sha	allow Dark Surface (F22)	
Sandy Mucky Mineral (S1)			Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)		
Sandy G	Bleved Matrix (S4)	_	Redox Depress	sions (F	8)			. ,		
Sandy Redox (S5)			 Marl (F10) (LR	R K, L)	,		³ Indicators of hydrophytic vegetation and			
Stripped Matrix (S6) Red Parent Material (F21) (MLI				21) (MLF	A 145)	wetland hydrology must be present,				
	(),	_		,	<i>,</i> ,	,	unless disturbed or problematic.			
Restrictive	Laver (if observed):									
Type:	, , , , , , , , , , , , , , , , , , ,									
Denth //							Undria Cail Dracar	A Yee		
Depth (II	nches):						Hydric Soli Preser	it? fes		
Remarks:										
1										



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

	is CECW-CO-R (Authority: AR 335-15, paragraph 5-24)
Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22
Applicant/Owner: <u>TDI</u>	State: NY Sampling Point: Wet_5B-
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.54717°N	Long: -73.83314°W Datum: WGS84
Soil Map Unit Name: HuB - Hudson silt loam, 3 to 8 percent slopes	NWI classification: PEM1
Are climatic / bydrologic conditions on the site typical for this time of y	ear? Yes x No (If no explain in Remarks.)
Are Vegetation Soil or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes x No
Are Vogetation Soil or Hydrology paturally pr	where the contrast of the con
	bienauc? (in needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes <u>X</u> No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag 5B-H-25
	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (R6)
Surface Water (A1) Water-Stained Le	aves (B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B	I3) Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B1	5) Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sulfide	Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)Oxidized Rhizosp	neres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Redu	ced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Redu	ction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	e (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain in]	Remarks) Microtopographic Relief (D4)
Sparsely vegetated Concave Surface (B8)	
Field Observations:	
Surrace vvater Present? Yes No X Depth (in Water Table Present? Ves X No Dopth (in	ches):

(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

No

Depth (inches):

0

Yes X

Remarks:

Saturation Present?

Yes X No

Wetland Hydrology Present?

Sampling Point: Wet_5B-H

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:					
1 2.		. <u></u> .		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)					
3				Total Number of Dominant Species Across All Strata: 2 (B)					
5				Percent of Dominant Species 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')				$\frac{1}{\text{OBL species}} 20 \qquad \text{x1} = 20$					
<u> </u>				FACW species $80 \times 2 = 160$					
2				FAC species $0 \times 3 = 0$					
3				FACU species $0 \times 4 = 0$					
4				$\frac{1}{1} = \frac{1}{2} = \frac{1}{2}$					
5				$\frac{1}{2} = \frac{1}{2} = \frac{1}$					
				$\frac{100}{100} = \frac{100}{100} = $					
7				Hydrophytic Vegetation Indicators:					
<i>·</i>		Tatal Causa		A Denid Test for Undershufis Vesetation					
Harb Stratum (Plataiza: 5')				1 - Rapid Test for Hydrophylic Vegetation					
			F A 014/	$\frac{1}{2}$ - Dominance Test is >50%					
1. Phragmites australis	80	Yes	FACW	X_3 - Prevalence Index is ≤3.0					
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)					
3									
4				Problematic Hydrophytic Vegetation (Explain)					
5		. <u></u>		¹ Indicators of hydric soil and wetland hydrology must be					
6		·		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 loss than 2 in DPH					
11				and greater than or equal to 3.28 ft (1 m) tall.					
12				Herb - All herbaceous (non-woody) plants, regardless					
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.					
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in					
1				height.					
2									
3.				Hydrophytic Vegetation					
4.				Present? Yes X No					
		=Total Cover							
Remarks: (Include photo numbers here or on a separate sheet)									
······································									
Profile Desc	ription: (Describe to	o the dep	th needed to docu	ment th	e indica	or or co	nfirm the absence of	indicators.)	
-------------------------	-----------------------	------------	------------------------	------------	-------------------	------------------	---------------------------	-----------------------------------	-------------------
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/2	95	10YR 3/6	5	С	М	Loamy/Clayey	Prominent redox cond	centrations
3-18	10YR 4/1	80	10YR 5/8	5	С	М	Loamy/Clayey	Prominent redox cond	centrations
			10YR 3/6	10	С	М		Prominent redox conc	centrations
			10YR 2/1	5	С	М		Faint redox concer	ntrations
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators for	or Problematic Hydric S	oils':
	(A1)		Dark Surface (S7)	(0.0) (1		2 cm Mu	ck (A10) (LRR K, L, MLR	RA 149B)
Histic Epi	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Pr	airie Redox (A16) (LRR F	(, L, R)
Black His			MLRA 149B)			5 cm Mu	cky Peat or Peat (S3) (LF	(R K, L, R)
Hydroger	n Sulfide (A4)			ace (S9)	(LRR R,	MLRA 1	Polyvalu		(R K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	11) (LR F	R Κ, L)	Thin Dar	k Surface (S9) (LRR K, L	-)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral (F1) (LRF	κ κ, L)	Iron-Man	iganese Masses (F12) (L	RR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	-2)		Piedmon	it Floodplain Soils (F19) (I	MLRA 149B)
Mesic Sp	odic (A17)		X Depleted Matrix	x (F3)			Red Pare	ent Material (F21) (outsic	de MLRA 145)
(MLR/	A 144A, 145, 149B)		Redox Dark Su	irface (F	6)		Very Sha	allow Dark Surface (F22)	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)	
Sandy GI	eyed Matrix (S4)		Redox Depress	sions (F8	3)		<u>^</u>		
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicato	rs of hydrophytic vegetati	on and
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLF	A 145)	wetlan	d hydrology must be pres	sent,
Restrictive L	ayer (if observed):						uness	disturbed of problematic	
Туре:									
Depth (in	ches):						Hydric Soil Presen	nt? Yes <u>X</u>	No
Remarks:									



See ERDC/EL TR-12-1; the prop	onent agency is CECW-CO-R	(,
Project/Site: CHPE	City/County: Bethlehem/A	Albany County Sampling Date: 9/27/22
Applicant/Owner: <u>TDI</u>		State: NY Sampling Point: Wet_5B-H
Investigator(s): C. Scrivner & N. Frazer	Section, Townsh	ip, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, no	ne): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R	 Lat: 42.54709°N Long: -73	.83336°W Datum: WGS84
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 <u>x</u>	No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly disturbed? Are "Normal C	ircumstances" present? Yes x No
Are Vegetation Soil or Hydrology	naturally problematic? (If needed, exc	plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site if	ap snowing sampling point locations	s, 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 5B-H-25
Palustrine Forested Broad-leaf deciduous wetland.		
HYDROLOGY		
Wetland Hydrology Indicators:	Sec	condary Indicators (minimum of two required)
Primary indicators (minimum of one is required; check	<u>Sk all that apply)</u>	Drainage Patterns (B10)
High Water Table (A2)	Aguatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	$\frac{1}{2}$	Dry-Season Water Table (C2)
Water Marks (B1)	lydrogen Sulfide Odor (C1)	Cravfish Burrows (C8)
Sediment Deposits (B2) X C)xidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	resence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6) X	Geomorphic Position (D2)
Iron Deposits (B5)	hin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	X Depth (inches):	
Water Table Present? Yes No	X Depth (inches):	
Saturation Present? Yes No	X Depth (inches): Wetland Hy	drology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if availa	ble:
Remarks:		

Sampling Point: Wet_5B-H

	Absolute	Dominant	Indicator	Deminence Test werkelsest
<u>Iree Stratum</u> (Plot size: 30)	% Cover	Species :	FAC	Dominance lest worksneet:
	10	No		Number of Dominant Species
2. Praxinus perinsyrvanica	10	No	FAC	
Ouerous bicolor	5	No		Total Number of Dominant
	5		FAGW	
o				Percent of Dominant Species
o		<u> </u>		Prevalence Index worksheet
···	90	-Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		- 10101 0010.		$\begin{array}{c} \hline \\ \hline $
1. Lonicera morrowii	20	Yes	FACU	FACW species $65 \times 2 = 130$
2 Fraxinus pennsvlvanica	15	Yes	FACW	FAC species $115 \times 3 = 345$
3 Rhamnus cathartica	10	Yes	FAC	FACU species 55 $x 4 = 220$
A Populus deltoides	5	<u> </u>	FAC	$\frac{1100}{100} \frac{1000}{100} 1$
5				$\begin{array}{c c} \hline & \hline $
6				$\frac{200}{\text{Prevalence Index} = B/A = 2.96}$
7.				Hvdrophvtic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Solidado didantea	15	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Quercus bicolor	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Parthenocissus auinquefolia	10	Yes	FACU	data in Remarks or on a separate sheet)
4. Solidago rugosa	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Onoclea sensibilis	10	Yes	FACW	
6. Potentilla simplex	10	Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Acer rubrum	5	No	FAC	Definitions of Vegetation Strata:
8. Toxicodendron radicans	5	No	FAC	
9. Persicaria virginiana	5	No	FAC	at breast height (DBH), regardless of height.
10.				Continue to the state loss than 2 in DDU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	80	=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')		•		Weedwaines Allwoodwaines greater than 2.20 ft in
1. Celastrus orbiculatus	10	Yes	FACU	height.
2. Vitis aestivalis	5	Yes	FACU	
3.				Hydrophytic
4.				Present? Yes X No
	15	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)	<u> </u>		

Profile Descr	iption: (Describe t	to the dep	th needed to docu	ment th	e indica	or or co	nfirm the absence of i	indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-9	10YR 2/2	90	7.5YR 3/4	10	С	М	Loamy/Clayey	Distinct redox concentrations	
9-15	10YR 4/2	70	7.5YR 4/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 4/6	20	С	М		Prominent redox concentrations	
15-17	10YR 5/2	75	10YR 3/6	20	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 2/1	5	С	М		Distinct redox concentrations	
¹ Type: C=Cor	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL	_=Pore Lining, M=Matrix.	
Hydric Soil Ir	dicators:		,				Indicators fo	or Problematic Hydric Soils ³ :	
Histosol (A1)		Dark Surface (S7)			2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	.RR R,	Coast Pra	airie Redox (A16) (LRR K, L, R)	
Black His	tic (A3)		MLRA 149B)			5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Stratified			Ligh Chroma	ace (59) Sanda (S	(LKK K,		(49B) Polyvalue	k Surface (S0) (LRR K, L)	
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral (F1) (LRF	(K,L)	Iron-Manganese Masses (F12) (LRR K. L. R)		
Thick Dar	k Surface (A12)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Loamy Gleved	Matrix (F	- 1) (E iti -2)	(I(, L)	Piedmont Floodplain Soils (F19) (MLRA 149B)		
Mesic Spo	odic (A17)		X Depleted Matri	x (F3)	,		Red Pare	ent Material (F21) (outside MLRA 14	
(MLRA	A 144A, 145, 149B)		X Redox Dark Su	urface (F	6)		Very Sha	Illow Dark Surface (F22)	
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E)	xplain in Remarks)	
Sandy Gle	eyed Matrix (S4)		Redox Depress	sions (F8	3)				
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of hydrophytic vegetation and		
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F2	21) (MLF	A 145)	wetland hydrology must be present,		
Restrictive La	aver (if observed):						uniess	disturbed or problematic.	
Туре:									
Depth (ind	ches):						Hydric Soil Presen	t? Yes X No	
Remarks:									



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22				
Applicant/Owner: TDI	State: NY Sampling Point: Upl_5B-H				
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:				
Landform (hillside, terrace, etc.): Flat Local	relief (concave, convex, none): None Slope %: 0				
Subregion (LPR or MLPA): LPR P Lat: 42.5471°N					
Soil Man Linit Name: Huß - Hudson sitt loam 3 to 8 percent slopes					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysignificantly distu	bed? Are "Normal Circumstances" present? Yes x No				
Are Vegetation, Soil, or Hydrologynaturally problem	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 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.) Maintained utility access road.					
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	1) Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres	ا Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Ir	n (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction i	n Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	s) 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)	Wetland Hydrology Present? Yes <u>NO X</u>				
(includes capillary linge)	vieus inspections), if available:				
Describe Recorded Data (stream gauge, monitoring weir, aenai photos, pre					
Remarks:					

Sampling Point: Upl_5B-H

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: <u>2</u> (B)
5. 6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species 0 x 2 = 0
2.				FAC species 25 x 3 = 75
3				FACU species 35 x 4 =140
4.				UPL species0 x 5 =0
5.		·		Column Totals: 60 (A) 215 (B)
6.				Prevalence Index = B/A = 3.58
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1 Setaria pumila	25	Yes	FAC	$3 - Prevalence Index is \leq 3.0^{1}$
2 Poa pratensis	15	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3 Plantago lanceolata	10	<u>No</u>	FACU	data in Remarks or on a separate sheet)
4. Lotus corniculatus	10	No	FACU	Problematic Hvdrophytic Vegetation ¹ (Explain)
5.	-			
6				¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.
7		•		Definitions of Vegetation Strata:
R		·		
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
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woodv vines – All woodv vines greater than 3.28 ft in
1				height.
2				
3.				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	<u> </u>		
	···· ,			

Profile Desc	ription: (Describe to	o the dep	th needed to docu	ment th	ne indicat	or or co	nfirm the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Featur	res					
(inches)	Color (moist)	%	Color (moist)	%	Туре′	Loc ²	Texture		Remai	rks
0-8	10YR 3/3	100					Loamy/Clayey		with ro	cks
	·	<u> </u>			·			·		
					. <u> </u>					
					·					
					·					
<u> </u>								·		
		<u> </u>			·			·		
1- 0.0					. <u> </u>		2	·		
'Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ked Sand	Grains.	² Location:	PL=Pore L	ining, M=Mat	trix.
			Dark Surface (97)						
Histic En	vinedon (A2)	-	Polyvalue Belo	or) w.Surfa	ce (S8) (I	RRR	2 cm r	Prairie Rec	(LKK K, L, F lox (A16) (I F	
Black His	stic (A3)	-	MLRA 149B		00 (00) (1		000001	/lucky Peat	or Peat (S3)	(LRR K. L. R)
Hvdroge	n Sulfide (A4)		Thin Dark Surf	, ace (S9)) (LRR R.	MLRA 1	49B) Polvva	alue Below	Surface (S8)	(LRR K. L)
Stratified	Layers (A5)	-	High Chroma S	Sands (S	, 611) (LRF	κ, L)	Thin D	ark Surface	e (S9) (LRR	(, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral ((F1) (LRF	R K, L)	Iron-M	anganese	Masses (F12) (LRR K, L, R)
Thick Da	urk Surface (A12)	· · ·	Loamy Gleyed	Matrix (F2)		Piedm	ont Floodpl	lain Soils (F1	9) (MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matri	x (F3)			Red P	arent Mater	rial (F21) (ou	tside MLRA 145)
(MLR	A 144A, 145, 149B)	-	Redox Dark Su	urface (F	6)		Very S	Shallow Dar	k Surface (F2	22)
Sandy M	ucky Mineral (S1)	-	Depleted Dark	Surface	e (F7)		Other	(Explain in	Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depres	sions (F	8)					
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			³ Indica	ators of hyd	rophytic vege	etation and
Stripped	Matrix (S6)	-	Red Parent Ma	aterial (F	21) (MLR	A 145)	wetl	and hydrolo	ogy must be p	oresent,
	<i>///</i>						unle	ss disturbe	d or problem	atic.
Restrictive L	ayer (if observed):	(z :11								
Type:	ROCK	1111								
Depth (ir	nches):	8					Hydric Soil Pres	ent?	Yes	NoX
Remarks:										



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22				
Applicant/Owner: TDI	State: NY Sampling Point: Wet_5B-I				
Investigator(s): C. Scrivner & N. Frazer	Section. Township. Range:				
Landform (hillside terrace etc.): Elat	al relief (concave, convex, none); None Slone %; 0				
Subregion (LPP or MLPA): LPP P Lat: 42.54567°N					
Soil Map Unit Name: DhA Phinebook cilty clay loam 0 to 2 percent clar	Datum. WG504				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circumstances" present? Yes x No				
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sa	mpling 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 5B-I-12				
Persistent Palustrine 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)				
Surface Water (A1)Water-Stained Leaves	9) 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	1) Crayfish Burrows (C8)				
Sediment Deposits (B2) X Oxidized Rhizosphere:	s 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	Geomorphic Position (D2)				
Iron Deposits (B5) Inin Muck Surface (C.	7) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rem	Arks)Microtopographic Relier (D4)				
Field Observations:	-)·				
Water Table Present? Yes No X Depth (inches	s)				
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes X No				
(includes capillary fringe)	,,,, <u> </u>				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:				
Remarks:					

Sampling Point: Wet_5B-I

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	/0 2 2			
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 40.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Rosa multiflora	5	Yes	FACU	FACW species 55 x 2 = 110
2.				FAC species25x 3 =75
3.				FACU species x 4 = 160
4.				UPL species 0 x 5 = 0
5.				Column Totals: 120 (A) 345 (B)
6.				Prevalence Index = $B/A = 2.88$
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Carex conoidea	30	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Svmphvotrichum novi-belgii	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Solidado altissima	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Solidado rudosa	10	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Viburnum dentatum	10	No	FAC	
6 Fraxinus pennsylvanica	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.
7. Cornus racemosa	5	No	FAC	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				Sanling/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
	100	=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. Vitis aestivalis	15	Yes	FACU	height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes X No
	15	=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
	,			

Profile Desci	ription: (Describe t	o the dep	oth needed to docu	ment th	e indica	tor or co	nfirm the absence of i	indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-10	10YR 2/1	90	7.5YR 4/6	10	С	PL	Loamy/Clayey	Prominent redox concentrations		
10-20	2.5Y 4/2	65	7.5YR 5/8	20	С	М	Sandy	Prominent redox concentrations		
			7.5YR 3/4	10	С	М		Prominent redox concentrations		
			7.5YR 2.5/1	5	С	М		Distinct redox concentrations		
		·								
		<u> </u>								
17				<u> </u>			21			
Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	Location: PL	L=Pore Lining, M=Matrix.		
Histosol (Dark Surface (S7)			2 cm Mu	ick (A10) (IRR K I MIRA 149B)		
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (L	RR R.	Coast Pr	rairie Redox (A16) (LRR K. L. R)		
Black His	tic (A3)		MLRA 149B)	() (-	,	5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)		
Hydroger	n Sulfide (A4)		Thin Dark Surfa	, ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue	e Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		High Chroma S	Sands (S	11) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)		
X Depleted	Below Dark Surface	e (A11)	Loamy Mucky I	Mineral (F1) (LRF	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F	-2)		Piedmon	it Floodplain Soils (F19) (MLRA 149B)		
Mesic Sp	odic (A17)		Depleted Matrix	x (F3)			Red Pare	ent Material (F21) (outside MLRA 145)		
(MLR/	A 144A, 145, 149B)		X Redox Dark Su	Irface (F	6)		Very Sha	allow Dark Surface (F22)		
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E:	xplain in Remarks)		
Sandy G	eyed Matrix (S4)		Redox Depress	SIONS (F&	3)		³ Indicato	rs of hydrophytic vogotation and		
Stripped	Matrix (S6)		Red Parent Ma	terial (E:	21) (MI R	2Δ 145)	wetland hydrology must be present.			
					, (.		unless disturbed or problematic.			
Restrictive L	ayer (if observed):							alotatood of problematel		
Type:										
Depth (in	ches):						Hydric Soil Presen	nt? Yes X No		
Romarke:	,						-			
Nemarks.										



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 9/27/22
Applicant/Owner: TDI	State: NY Sampling Point: Upl_5B-I
Investigator(s): C. Scrivner & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Lo	cal relief (concave, convex, none): Convex Slope %: 2
Subregion (I RR or MI RA): I RR R Lat: 42 54566°N	Long: -73 84163°W Datum: WGS84
Soil Man Unit Name: RhA - Rhinebeck silty clay loam 0 to 3 percent sl	ODES NWL 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 Hydrologysignificantly di	sturbed? Are "Normal Circumstances" present? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	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	If yes, optional Wetland Site ID:
Road shoulder.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Oc	dor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospher	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	d Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	C7)Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	EAC Neutral Test (D5)
Field Observations:	
Surface water Present? Yes No X Depth (inch	es):
Saturation Present? Yes No X Depth (inch	ues): Wetland Hydrology Present? Yes No Y
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	
Noniano.	

Sampling Point: Upl_5B-I

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:0 (A)
3. 4.				Total Number of Dominant Species Across All Strata:2_(B)
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species x 2 =0
2.				FAC species 0 x 3 = 0
3.				FACU species 37 x 4 = 148
4.				UPL species 45 x 5 = 225
5.				Column Totals: 82 (A) 373 (B)
6				Prevalence Index = $B/A = 4.55$
7		•		Hydrophytic Vegetation Indicators:
···		-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-10101 00101		2 - Dominance Test is >50%
1 Contouros stosha	40	Voc	IDI	2 Dravelance Index is <3.0 ¹
	<u>40</u> 25	Voc		5 - Flevalence index is 25.0
2. Lotus conniculatus	20	<u> </u>		data in Remarks or on a separate sheet)
3. Ambrosia arternisiirolia	<u> </u>			Droblemetic Lindershiel (constation ¹ (Evaluin)
4. Daucus carota	<u> </u>			
 Cichorium intybus 6. 	2	. <u>No</u>	FACU	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
9.				at breast height (DBH), regardless of height.
10.				• In the Massive International terms theory 2 in DDU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	82	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratu <u>m</u> (Plot size: 30')		•		
1				Woody vines – All woody vines greater than 3.28 π in height.
2				
2		•		Hydrophytic
3		·		Vegetation Procent? Ves No X
4		Total Covor		
	(- 1:			
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Description: (Describe to the de	pth needed to docu	iment th	e indicat	or or cor	nfirm the absence of ir	ndicators.)	
Depth Matrix	Redo	x Featur	res				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remai	'ks
0-8 10YR 2/2 100					Sandy	With rocks	and fill
¹ Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=	=Pore Lining, M=Mat	trix.
Hydric Soil Indicators:					Indicators for	Problematic Hydri	c Soils ³ :
Histosol (A1)	Dark Surface (S7)			2 cm Muc	k (A10) (LRR K, L, I	/ILRA 149B)
Histic Epipedon (A2)	Polyvalue Belo	w Surfac	ce (S8) (L	RR R,	Coast Pra	irie Redox (A16) (LF	RR K, L, R)
Black Histic (A3)	MLRA 149B	5) (20)			5 cm Mucl	ky Peat or Peat (S3)	(LRR K, L, R)
Hydrogen Sulfide (A4)	Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue	Below Surface (S8)	(LRR K, L)
Stratified Layers (A5)	High Chroma	Sands (S	511) (LRR	K, L)	Ihin Dark	Surface (S9) (LRR	
Depleted Below Dark Surface (A11)		Motrix ((F1) (LRR F2)	K , L)		Janese Masses (F12	(LRR R, L, R)
Mosic Spodic (A12)	Loany Gleyed	waux (i	FZ)		Pleumoni	rioouplain Solis (Fi	9) (WILKA 1496) teido MI BA 145)
(MI RA 144A 145 149B)	Depleted Math	rface (F	6)			low Dark Surface (F	
Sandy Mucky Mineral (S1)	Depleted Dark	Surface	(F7)		Other (Ex	nlain in Remarks))
Sandy Gleved Matrix (S4)	Bedox Depres	sions (F	(i <i>')</i> B)				
Sandy Redox (S5)	Marl (F10) (LR	R K, L)			³ Indicators	s of hydrophytic vege	etation and
Stripped Matrix (S6)	Red Parent Ma	aterial (F	21) (MLR	A 145)	wetland	hydrology must be p	oresent,
<u> </u>			, .	-	unless o	disturbed or problem	atic.
Restrictive Layer (if observed):							
Type: Rock/fill							
Depth (inches): 8					Hydric Soil Present	? Yes	No X
					-		
Remarks.							



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

City/County: <u>Selkirk</u>	Sampling Date: <u>11/17/21</u>
State: <u>NY</u>	Sampling Point: <u>FA-23</u>
Section, Township, Range: <u>Selkirk</u>	
Local relief (concave, convex, none):	Slope (%):
Long: <u>-73.82265</u>	Datum: NAD83
NWI class	sification: <u>PEO/PEM</u>
of year? Yes 🔀 No 🔲 (If no, explain ir	n Remarks.)
antly disturbed? Are "Normal Circumstances	s" present? Yes 🔀 No 🗌
y problematic? (If needed, explain any ans	wers in Remarks.)
	City/County: <u>Selkirk</u> State: <u>NY</u> State: <u>NY</u> Section, Township, Range: <u>Selkirk</u> Local relief (concave, convex, none): Long: <u>73.82265</u> NWI class of year? Yes No (If no, explain in antly disturbed? Are "Normal Circumstances y problematic? (If needed, explain any ans

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedu Wetland FA	Yes X No Yes No Yes No Yes No Yes No Yes No Yes Yes No Uures here or in a separate report.)	Is the Sampled Area within a Wetland? Yes <u>No</u> If yes, optional Wetland Site ID:
HYDROLOGY		

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	☐ Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3) 🔲 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 2	
Water Table Present? Yes X No Depth (inches): 12	
Saturation Present? Yes $\boxed{\square}$ No $\boxed{\square}$ Depth (inches): 10	Wetland Hydrology Present? Yes 🔀 No 🗌
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe)	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No Image: Comparison of the second seco
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No C
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>No</u> No :
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> to consecutive the second sec
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> tions), if available:
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No tions), if available:
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No :tions), if available:
Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No :tions), if available:
Saturation Present? Yes X No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> to tions), if available:
Saturation Present? Yes X No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X No Depth (inches): 10 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
1	<u>_/// Cover</u> _			Number of Dominant Species
2				That Are OBL, FACW, of FAC: (A)
2		_		Total Number of Dominant
3				
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	·	-		
6	·			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. <u>Rhamnus cathartica</u>	5	YES 💌	FAC 🔽	FAC species X 3 =
2			<u> </u>	IPI species x 4 =
3				Column Totals: (A) (B)
4		-	<u> </u>	() () () () () () () () () () () () () (
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.		-	-	1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	└── 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5			-	☐ 3 - Prevalence Index is ≤3.0 ¹
	40	VES		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2 Lythrum salicaria	15			Problematic Hydrophytic Vegetation ¹ (Explain)
	20			
3. <u>Junus spp.</u>			FACW	be present, unless disturbed or problematic.
4				Definitions of Vegetation Strata
5	<u> </u>			
6	·			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7	·			
8	·	-		and greater than or equal to 3.28 ft (1 m) tall.
9	·			Harb - All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11	. <u> </u>		<u> </u>	Woody vines – All woody vines greater than 3.28 ft in
12				height.
	100	= Total Cov	er	
Woody Vine Stratum (Plot size: 30)				
1. <u>Vitis riparia</u>	8	YES 💌	FAC 💌	
2		<u> </u>		Hydrophytic Vegetation
3				Present? Yes X No
4				
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Depth	Matrix		Red	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR/4/1	90	10yr/5/6	10		-	CISiL	Prominent redox
8-16	10vr/5/3	80	10vr/4/6	20		_	CISiLo	
0-10	109//0/0						010120	
			<u></u>	<u></u>				
				<u></u>		-		
					-	-		
					- <u>-</u>	_		
				·				
						-		
				<u> </u>		-	<u> </u>	
					-	-		
					- <u> </u>	_		
	oncontration D=Do			IS-Maska	d Sand Gr	aine	² L ocation	
Hydric Soil	Indicators:			13-1118566		anis.	Indicators	s for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Belo	w Surface	e (S8) (LR I	RR,	🔲 2 cm I	- Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		MLRA 149E	B)			Coast	Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surf	ace (S9) (LRR R, M	LRA 149E	3) ∐ 5 cm l	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)			Mineral (F	·1) (LRR K 2)	., L)		Surface (S7) (LRR K, L, M) alua Balow Surface (S8) (LPR K, L)
	d Below Dark Surfac	ce (A11)	Depleted Matr	ix (F3)	2)			Dark Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)	· · /	Redox Dark S	urface (F6)		🔲 Iron-M	langanese Masses (F12) (LRR K, L, R)
Sandy M	Mucky Mineral (S1)		Depleted Dark	Surface (F7)			nont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)		C Redox Depres	sions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (E21)
	d Matrix (S6)							Shallow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R ,	MLRA 14	9B)				Other	(Explain in Remarks)
3								
Indicators o	of hydrophytic vegeta	ition and v	vetland hydrology mu	st be pres	ent, unles	s disturbed	d or problemati	С.
Type.	Layer (II observed)	•						
Depth (in	ches).		-				Hydric Soi	Present? Yes 🛛 No 🗌
Remarks:							Tiyane oor	
Remarks.								



Wetland FA- Soils

SITE PHOTOGRAPHS

Phase 5

Champlain Hudson Power Express

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: Selkirk Sampling Date: 11/17/2021
Applicant/Owner: CHA	State: NY Sampling Point: FA-25
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.54039	Long: -73.82156 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	Ded? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (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? Hydric Soil Present?	Yes Yes	NoX NoX	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 procedu Upland of South of Wetland FA	res here or in a	separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is	s required; check all that apply)	Sur	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9)	Dra	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Mos	ss Trim Lines (B16	i)	
Saturation (A3)	Marl Deposits (B15)	Dry	-Season Water Ta	ble (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Cra	yfish Burrows (C8))	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	ots (C3) Sat	uration Visible on /	Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stu	nted or Stressed P	lants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6) Geo	omorphic Position	(D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Sha	allow Aquitard (D3)	1	
Inundation Visible on Aerial Imag	ery (B7) Other (Explain in Remarks)	Mic	rotopographic Reli	ef (D4)	
Sparsely Vegetated Concave Sur	face (B8)	FAG	C-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 Hydro	logy Present?	Yes	No X
(includes capillary fringe)		-			
Describe Recorded Data (stream gau	ge, monitoring well, aerial photos, previous inspe	tions), if available:			
Remarks:					

Sampling Point: FA-25

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Juniperus virginiana 	30	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
7				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. <u>Rhamnus spp.</u>	30	Yes	FACU	FACW species 0 x 2 = 0
2. Lonicera spp.	20	Yes	FACU	FAC species 0 x 3 = 0
3				FACU species 180 x 4 = 720
4				UPL species 0 x 5 = 0
5.				Column Totals: 180 (A) 720 (B)
6.				Prevalence Index = B/A = 4.00
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Centaurea spp.	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Cirsium spp.	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3 Gallium spp		Yes	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
· · · · · · · · · · · · · · · · · · ·				¹ Indicators of hydric soil and wetland hydrology must
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	100	=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 boint
2				noight.
2.				Hydrophytic
3				Vegetation
4		=Total Cover		
Remarks: (Include photo numbers here or on a sen	arate sheet)			

Profile Desc	cription: (Describe	to the de	pth needed to docu	ument t	he indica	tor or c	onfirm the absence of	findicators.)
Depth	Matrix		Redo	x Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10yr 4/3	100					Loamy/Clayey	
		·						
		·						
		·						
¹ Type: C=C	oncentration, D=Dep	letion, RM	1=Reduced Matrix, N	//S=Mas	sked Sand	d Grains.	² Location: PI	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belc	w Surfa	ice (S8) (l	_RR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Ep	bipedon (A2)		MLRA 149B	6) (20			Coast Pr	airie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	ace (S9			149B)5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		High Chroma s	Sands (8	511) (LRI 751) (LRI	(K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)
Stratilied	d Layers (Ab)	o (A11)	Loamy Mucky	Matrix	(F1) (LKI (F2)	κ κ, L)	I nin Dari	K Surface (S9) (LRR K, L)
	a below Dark Surface	e (ATT)	Loamy Gleyed		(FZ)		Iron-ivian	t Electrologia Soile (E10) (ML DA 140
	Air Sullace (A12)		Depleted Math	х (го) urfaco (F	=6)		Piedmon	a Fiologpiant Solis (F 19) (MERA 149
Sandy R	Hoved Matrix (S4)		Neutox Dark St	Surface	0) (E7)		Niesic Sp Red Pare	ont Material (E21)
Sandy C			Beday Depress	sions (F	(17) (8)		Verv Sha	allow Dark Surface (E22)
Stripped	Matrix (S6)		Marl (F10) (I R		0)		Other (E)	xolain in Remarks)
Dark Su	rface (S7)			, _/				
³ Indicators o	f hvdrophvtic vegetat	tion and w	etland hvdrology mu	ust be p	resent. ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Type:	,							
Depth (ii	nches) [.]						Hydric Soil Preser	nt? Yes No X
Remarks:								



SITE PHOTOGRAPHS

Phase 5

Champlain Hudson Power Express

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

Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 12/2/22				
Applicant/Owner: TDI	State: NY Sampling Point: Wet P5B-Z				
Investigator(s): C. Scrivner & C. Einstein	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 3				
Subregion (LRR or MLRA): LRR R Lat:	42.54386° N Long:73.82464° W Datum: WGS84				
Soil Map Unit Name: Uh: Udorthents, clayey-Urban land	d complex NWI classification: PEM1				
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes x No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present? Yes x No				
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
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 P5B-Z-4				
Remarks: (Explain alternative procedures here or in a s Persistent palustrine emergent marsh doiminated by con	separate report.) mmon reed.				

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)						
Surface Water (A1)	Drainage Patterns (B10)						
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	X Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches): 9						
Saturation Present? Yes X	No Depth (inches): 0 We	etland Hydrology Present? Yes X No					
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections	s), if available:					
Remarks:							

Sampling Point: Wet P5B-Z

Trace Stratum (Plat size: 20)	Absolute	Dominant	Indicator	Deminence Test workshoot			
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species	Status	Dominance lest worksneet:			
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 4			
3.				Total Number of Dominant			
4				Species Across All Strata: 5 (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 80.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species X 1 = 20			
1. Rhamnus cathartica	5	Yes	FAC	FACW species 85 x 2 = 170			
2. Lonicera morrowii	5	Yes	FACU	FAC species 5 x 3 = 15			
3. <u>Cornus amomum</u>	5	Yes	FACW	FACU species <u>5</u> x 4 = <u>20</u>			
4			·	UPL species 0 x 5 = 0			
5				Column Totals: 115 (A) 225 (B)			
6				Prevalence Index = B/A =1.96			
7				Hydrophytic Vegetation Indicators:			
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
1. Phragmites australis	75	Yes	FACW	<u>X</u> 3 - Prevalence Index is $\leq 3.0^{1}$			
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportin			
3. <u>Onoclea sensibilis</u>	5	No	FACW	data in Remarks or on a separate sheet)			
4.				Problematic Hydrophytic Vegetation ¹ (Explain)			
5.				¹ Indicators of hydric soil and wetland hydrology must be			
6				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				Herh – All herbaceous (non-woody) plants, regardless			
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines areater than 3.28 ft in			
1				height.			
2							
3.				Hydrophytic Vegetation			
4.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)			·			

SOIL

Profile Desc	ription: (Describe t	o the dep	oth needed to docu	ment th	e indica	tor or co	nfirm the absence of	indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-9	10YR 2/1	100					Mucky Sand			
9-16	10YR 5/2	80	10YR 4/6	20	С	PL/M	Loamy/Clayey	Prominent redox concentrations		
¹ Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: F	2=Pore Lining, M=Matrix.		
Hydric Soil II	ndicators:						Indicators f	or Problematic Hydric Soils ³ :		
Histosol ((A1) ipedon (A2)		X Dark Surface (Polyvalue Belo	S7) w Surfac	ce (S8) (I	.RR R,	2 cm Mu Coast P	uck (A10) (LRR K, L, MLRA 149B) 'rairie Redox (A16) (LRR K, L, R)		
	Suic (A3) Sulfide (A4)		Thin Dark Surf) ace (99)		MIRA 1	49B) Polyvalu	LCKY Pear of Pear (S3) (LRR K, L, R)		
Stratified	Lavers (A5)		High Chroma S	Sands (S	11) (LRF	RK.L)	Thin Da	rk Surface (S9) (LRR K, L)		
X Depleted	Below Dark Surface	(A11)	Loamv Muckv	Mineral (F1) (LRF	R K. L)	Iron-Ma	nganese Masses (F12) (LRR K. L. R)		
Thick Da	rk Surface (A12)	()	Loamy Gleved	Matrix (F	=2)	, ,	Piedmont Floodplain Soils (F19) (MLRA 149B)			
Mesic Sp	odic (A17)		X Depleted Matri	x (F3)	,		 Red Par	rent Material (F21) (outside MLRA 145)		
(MLR/	A 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very Sh	allow Dark Surface (F22)		
X Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	Explain in Remarks)		
Sandy GI	eyed Matrix (S4)		Redox Depres	sions (F8	3)					
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicate	ors of hydrophytic vegetation and		
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetlar	nd hydrology must be present,		
Restrictive L	ayer (if observed):						unies	s disturbed of problematic.		
Type:	,									
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										



Project/Site: CHPE	City/County: Bethlehem/Albany County Sampling Date: 12/2/22
Applicant/Owner: TDI	State: NY Sampling Point: Wet P5B-Y
Investigator(s): C. Scrivner & C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): <u>Concave</u> Slope %: <u>3</u>
Subregion (LRR or MLRA): LRR R Lat: 42.54509° N	Long: -73.82632° W Datum: WGS84
Soil Map Unit Name: Uh: Udorthents, clayey-Urban land complex	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	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 sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: Near flag P5B-Y-3
Remarks: (Explain alternative procedures here or in a separate report.) Persistent palustrine emergent marsh doiminated by common reed.	
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)

Primary indicators (minimum	I OI ONE	<u>, is requ</u>	ired; check	ali that apply)			Surface Soli Cracks (Bb)		
Surface Water (A1)			Wat	ter-Stained Leaves (I	B9)		Drainage Patterns (B10)		
X High Water Table (A2)			Aqu	uatic Fauna (B13)			Moss Trim Lines (B16)		
X Saturation (A3)			Mar	l Deposits (B15)			Dry-Season Water Ta	ble (C2)	
Water Marks (B1)			Hyd	Irogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)			X Oxio	dized Rhizospheres o	on Living Ro	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)	
Drift Deposits (B3)			Pres	sence of Reduced Ire	on (C4)		Stunted or Stressed P	lants (D1)	
Algal Mat or Crust (B4)			Rec	ent Iron Reduction ir	n Tilled Soils	s (C6)	Geomorphic Position	(D2)	
Iron Deposits (B5)			Thir	n Muck Surface (C7)			Shallow Aquitard (D3)		
Inundation Visible on Ae	rial Ima	agery (B	57)Oth	er (Explain in Remar	ks)		Microtopographic Reli	ef (D4)	
Sparsely Vegetated Cor	icave S	surface ((B8)				X FAC-Neutral Test (D5)	
Field Observations:									
Surface Water Present?	Yes		No X	Depth (inches):					
Water Table Present?	Yes	Х	No	Depth (inches):	9				
Saturation Present?	Yes	Х	No	Depth (inches):	0	Wetlan	d Hydrology Present?	Yes X No	
(includes capillary fringe)				_					
Describe Recorded Data (st	ream ga	auge, m	ionitoring we	ell, aerial photos, pre	vious inspe	ctions), if a	vailable:		
Remarks:									

Sampling Point: Wet P5B-Y

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:4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 20 x 1 = 20
1. Rhamnus cathartica	5	Yes	FAC	FACW species 85 x 2 = 170
2. Cornus amomum	5	Yes	FACW	FAC species <u>5</u> x 3 = <u>15</u>
3. Rhus typhina	3	Yes	UPL	FACU species x 4 =
4				UPL species <u>3</u> x 5 = <u>15</u>
5.				Column Totals: 113 (A) 220 (B)
6.				Prevalence Index = B/A = 1.95
7.				Hydrophytic Vegetation Indicators:
	13	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6				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		-Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30')	100			
1				Woody vines – All woody vines greater than 3.28 ft in height
·				noight.
2				Hydrophytic
S				Vegetation
4				
		= lotal Cover		
	ale Sheel.)			

SOIL

Profile Desc	ription: (Describe t	o the dep	oth needed to docu	ment th	e indica	tor or co	nfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featur	es1	. 2	- .	_
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc-	lexture	Remarks
0-9	10YR 2/1	100					Mucky Sand	
9-16	10YR 5/2	80	10YR 4/6	20	С	PL/M	Loamy/Clayey	Prominent redox concentrations
	·				—			
¹ Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soll I	ndicators:		V Dark Surface (07)			Indicators f	
Histic En	(AT) inedon (A2)		A Dark Surface (07) w Surfac	n (S8) (I			UCK (A10) (LRR R, L, MLRA 149B)
Black His	stic (A3)		MLRA 149B)	Je (00) (I	- XIX IX,	5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
Hvdroger	n Sulfide (A4)		Thin Dark Surf	, ace (S9)	(LRR R.	MLRA 1	49B) Polvvalu	ue Below Surface (S8) (LRR K. L)
Stratified	Layers (A5)		High Chroma S	Sands (S	(LRF	R K, L)	, <u> </u>	ark Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral (F1) (LRF	R K, L)	Iron-Ma	inganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (I	-2)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	odic (A17)		X Depleted Matri	x (F3)			Red Pa	rent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very Sh	nallow Dark Surface (F22)
X Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (B	Explain in Remarks)
Sandy G	leyed Matrix (S4)		Redox Depres	sions (F8	3)		3	
Sandy Re	edox (S5) Motrix (S6)		Mari (F10) (LR	KK,L)		A 445)	Indicate	ors of hydrophytic vegetation and
Suipped				ateriai (F.		A 145)	wella	na hydrology must be present,
Restrictive I	aver (if observed).						unes	s disturbed of problematic.
Tvpe:								
Denth (in	iches).						Hydric Soil Prese	nt? Yes X No
Doput (iii								
Remarks:								



See ERDC/EL TR-12-1	; the proponent agency is CEC	W-CO-R	(Automy: AN	ooo no, panagraph o zaj		
Project/Site: CHPE	Cit	ty/County: <u>Bethlehem</u>	n/Albany County	Sampling Date: <u>12/2/22</u>		
Applicant/Owner: TDI			State: NY	Sampling Point: UPL		
Investigator(s): C. Scrivner & C. Finstein	1	Section, Towns	ship, Range			
Landform (hilloide, terrace, etc.); Elet			napo): Nono			
		i (concave, convex, r	ione): <u>None</u>	Siope %: <u>0</u>		
Subregion (LRR or MLRA): LRR R	Lat: 42.5441° N	Long: <u>-</u> 7	3.8254° W	Datum: WGS84		
Soil Map Unit Name: Uh: Udorthents, c	ayey-Urban land complex		NWI classification:	NA		
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 H	lydrology significantly disturbed'	? Are "Normal	Circumstances" prese	nt? Yes x No		
A =) (= = = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = = = , e = , e = ,				De med e)		
Are vegetation, Soil, or F	haturally problematic?	(If needed, e	xplain any answers in I	Remarks.)		
SUMMARY OF FINDINGS – Atta	ach site map showing samplir	ng point location	ns, transects, imp	portant features, etc.		
Hydrophytic Vegetation Present?	Yes <u>No X</u> I	s the Sampled Area				
Hydric Soil Present?	Yes <u>No X</u> v	within a Wetland?	Yes	No <u>X</u>		
Wetland Hydrology Present?	Yes <u>No X</u> If	f yes, optional Wetlar	nd Site ID:			
Remarks: (Explain alternative procedur	es here or in a separate report.)					
Upland for both P5B-Z & P5B-Y. Unpave	ed road/path consisting of ballast and rc	ock material.				
HYDROLOGY						
Wetland Hydrology Indicators:		<u>S(</u>	econdary Indicators (m	inimum of two required)		
Primary Indicators (minimum of one is re	equired; check all that apply)		Surface Soil Cracks	(B6)		
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (I	310)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on L	iving Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Till	led Soils (C6)	Geomorphic Positio	n (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	3)		
Inundation Visible on Aerial Imagery	(B7) Other (Explain in Remarks)		Microtopographic Re	elief (D4)		
Sparsely Vegetated Concave Surface	ce (B8)		FAC-Neutral Test (05)		
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 H	lvdrology Present?	Yes No X		
(includes capillary fringe)			,			
Describe Recorded Data (stream dauge	monitoring well aerial photos, previou	is inspections) if avai	ilable:			
Describe Recorded Data (Sirearii gauge	, memoring weil, aenai priotos, previou					
Remarks:						
Nomano.						

Sampling Point: UPL

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC	: (A)
3				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: 15')				OBL species	x 1 =
1.				FACW species	x 2 =
2.				FAC species	x 3 =
3.				FACU species	x 4 =
4.				UPL species	x 5 =
5.				Column Totals:	(A) (B)
6.				Prevalence Index = B/A	A =
7.				Hydrophytic Vegetation India	ators:
		-Total Cover		1 - Ranid Test for Hydroph	wtic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50	
					o ¹
1				3 - Prevalence Index Is ≤3	
2				4 - Morphological Adaptati data in Remarks or on a	ons' (Provide supporting a separate sheet)
3 4.				Problematic Hydrophytic V	/egetation ¹ (Explain)
5.					
6.				'Indicators of hydric soil and w present, unless disturbed or pr	etland hydrology must be oblematic.
7				Definitions of Vegetation Str	ata:
8				Tree – Woody plants 3 in. (7.6	cm) or more in diameter
9				at breast height (DBH), regard	less of height.
10				Sapling/shrub – Woody plants	s less than 3 in. DBH
11		·		and greater than or equal to 3.	28 ft (1 m) tall.
12				Herb - All herbaceous (non-w	oody) plants, regardless
		=Total Cover		of size, and woody plants less	than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vine	s greater than 3.28 ft in
·				neight.	
2				Hydrophytic	
3.				Vegetation	
4				Present? Yes	No <u>X</u>
		=Total Cover			
Remarks: (Include photo numbers here or on a sepa No vegetation observed to be growing in the unpaved	rate sheet.) I road/path.				
Ches) (Color (moist) %	\mathbf{O}_{1} (\mathbf{v}_{1} (\mathbf{v}_{2}) \mathbf{v}_{1} (\mathbf{v}_{2}) \mathbf{v}_{1} (\mathbf{v}_{2})	To find			
---	--	---			
	Color (moist) % Type' Loc²	Texture Remarks			
/pe: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.			
Histosol (A1) Histic Epipedon (A2)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R,	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			
Arric Soli Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Mesic Spodic (A17) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R Piedmont Floodplain Soils (F19) (MLRA 149 Red Parent Material (F21) (outside MLRA 1 Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
Histosol (A1) Histosol (A1) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Mesic Spodic (A17) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F Piedmont Floodplain Soils (F19) (MLRA 149 Red Parent Material (F21) (outside MLRA 1 Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Mesic Spodic (A17) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Piedmont Floodplain Soils (F19) (MLRA 149 Red Parent Material (F21) (outside MLRA 149 Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Histosol (A1) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Mesic Spodic (A17) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6)	Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149I High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F Piedmont Floodplain Soils (F19) (MLRA 145 Red Parent Material (F21) (outside MLRA 145 Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			



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					

Project/Site: CHPE	City/County: Selkirk/Albany Sampling Date: 10/6/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-AA-6 Wet
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): flat	Local relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-	32-19.77N Long: 73-49-08.90W Datum: WGS84
Soil Map Unit Name: Hudson silt loam (HuB)	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this	ime of year? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysign	ificantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynat	rally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF SINDINGS Attach site man ab	owing compling point locations, transacts, important factures, ato

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures shrub swamp	here or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)					
Surface Water (A1)	X Water-Stained Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B	8)	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	d Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if a	available:				
Remarks:						

Sampling Point: P5-AA-6 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator Status	Dominanco Test workshoot
1		Species	Status	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species <u>5</u> x 1 = <u>5</u>
1. Cornus alba	70	Yes	FACW	FACW species <u>125</u> x 2 = <u>250</u>
2. Lonicera tatarica	20	Yes	FACU	FAC species X 3 = 30
3. Rhamnus cathartica	10	No	FAC	FACU species 80 x 4 = 320
4				UPL species x 5 =
5				Column Totals: 220 (A) 605 (B)
6				Prevalence Index = B/A = 2.75
7				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Rosa multiflora	10	No	FACU	X 3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Cornus alba	45	Yes	FACW	data in Remarks or on a separate sheet)
4. Lonicera tatarica	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5 Onoclea sensibilis	10	No	FACW	
6. Sphagnum sp.	20	Yes		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All borbassous (non woody) planta, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Mandausinen Allussedusinen mententlen 2.20 fijn
1. Celastrus orbiculatus	35	Yes	FACU	height.
2. Parthenocissus guinguefolia	10	Yes	FACU	
3				Hydrophytic
4				Vegetation Present? Yes X No
	45	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 2/1	100					Loamy/Clayey	
7-16	10YR 5/2	70	10YR 4/6	30	С	M	Loamy/Clayey	Prominent redox concentrations
							·	
¹ Type: C=C	Concentration D=Dep	letion RM	=Reduced Matrix		ked Sand			I=Pore Lining M=Matrix
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol Histic E Black H Hydroge Stratified X Depleter Thick Da Mesic S (MLF Sandy M	l (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) spodic (A17) RA 144A, 145, 149B) <i>M</i> ucky Mineral (S1)	e (A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Si Depleted Dark	S7) ow Surfa j) Sands (S Mineral Matrix (ix (F3) urface (F Surface	ce (S8) () (LRR R 611) (LRI (F1) (LRI F2) (F2) (F7)	LRR R, , MLRA [,] R K, L) R K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Man Piedmon Red Pare Very Sha	ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) mganese Masses (F12) (LRR K, L, R) the Floodplain Soils (F19) (MLRA 149B) ent Material (F21) (outside MLRA 14) allow Dark Surface (F22) xplain in Remarks)
Sandy C Sandy F Stripped	Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Redox Depres Marl (F10) (LR Red Parent Ma	sions (Fa R K, L) aterial (F	8) 21) (ML I	RA 145)	³ Indicato wetlan unless	rs of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.
Restrictive Type: Depth (i	Layer (if observed): 	ie					Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								



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					

Project/Site: CHPE		City/Cou	nty: Selkirk/Albar	ny		Sampling Date:	10/6/2	22
Applicant/Owner: TD	1			State:	NY	Sampling Point	: P5-A	AA-6 Upl
Investigator(s): C. Einste	in & N. Frazer		Section, Townsh	ip, Range:				
Landform (hillside, terrace	etc.): flat	Local relief (con	cave, convex, no	ne): <u>none</u>		Slope	e %: _	0
Subregion (LRR or MLRA): <u>LRR R</u> Lat	: 42-32-19.77N	Long: <u>73-</u> 4	19-08.90W		Datum:	WGS	84
Soil Map Unit Name: Hu	dson silt loam (HuB)			NWI classifi	cation:	n/a		
Are climatic / hydrologic c	onditions on the site typical fo	r this time of year?	Yes x	No	(If no, ex	plain in Remark	s.)	
Are Vegetation, S	oil, or Hydrology	significantly disturbed?	Are "Normal C	ircumstance	s" present	t? Yes <u>x</u>	No_	
Are Vegetation, S	oil, or Hydrology	naturally problematic?	(If needed, exp	lain any ans	wers in R	Remarks.)		
						autaut faat		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures Gravel road.	here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)	_			
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7))Other (Explain in Remarks)		Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)		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):	Wetlan	nd Hydrology Present? Yes No X		
(includes capillary fringe)				-	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ections), if	available:		
Remarks:					

Sampling Point: P5-AA-6 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1,				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3. 4.		·		Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species x 3 = 75
3				FACU species45x 4 =180
4				UPL species 2 x 5 =10
5.				Column Totals: 72 (A) 265 (B)
6.				Prevalence Index = B/A = 3.68
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1 Centaurea stoebe	2	No	UPL	$3 - Prevalence Index is \leq 3.0^1$
2 Geranium maculatum	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3 Galium horeale	15	Yes	FAC	data in Remarks or on a separate sheet)
Toylcodendron radicans	10	<u> </u>	FAC.	Problematic Hydrophytic Vegetation ¹ (Explain)
Circium anianse	20	Ves		
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sanling/shrub Woody plants loss than 3 in DRH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	52	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		1		
1 Celastrus orbiculatus	20	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height
2				- Hoight
3				Hydrophytic
3				Vegetation Present? Ves No X
4				
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	itor or co	onfirm t	he absence of indica	tors.)	
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Т	exture	Rema	arks
<u>()</u>					<u>-) </u>					
					·					
					·					
					·					
					·					
					·					
					·					
					·					
		letion RM	-Reduced Matrix	MS-Mas	ked Sand	Graine		² Location: PL-Pore	Lining M-M	atrix
Hydric Soil	Indicators:				skeu Gan			Indicators for Prob	Iomatic Hydu	ric Soils ³ :
Histosol	(A1)		Dark Surface	(97)				2 cm Muck (A10		MI DA 1/9B)
Histosof	(AT)				000 (58) (2 Chi Muck (Alt	(LKKK, L, M)	DDKID)
	A^{2}				ice (30) (LKK K,			euox (ATO) (L	$\mathbf{K}\mathbf{K}\mathbf{K},\mathbf{L},\mathbf{K}$
	slic (AS)		Thin Dark Sur) face (50			140B)			$(\mathbf{L}\mathbf{K}\mathbf{K}\mathbf{K},\mathbf{L},\mathbf{K})$
Hydroge				lace (59			1498)		/ Surface (58	(LRR K, L)
	Layers (A5)	(High Chroma	Sands (511) (LRI	K K, L)			ce (59) (LRR	
	Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	ΚΚ, L)		Iron-Manganese	Masses (F1)	$2) (\mathbf{LRR} \mathbf{K}, \mathbf{L}, \mathbf{R})$
	ark Surface (A12)		Loamy Gleyed	Matrix ((F2)				plain Soils (F	19) (MLRA 149B)
	podic (A17)		Depleted Matr	ıx (F3)				Red Parent Mate	erial (F21) (o	utside MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark S	urface (I	-6)			Very Shallow Da	ark Surface (H	-22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	∋(⊢7)			Other (Explain in	n Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depres	sions (⊢	8)			3		
Sandy R	edox (S5)		Marl (F10) (LF	RR K, L)				Indicators of hy	drophytic veg	jetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	=21) (MLF	RA 145)		wetland hydro	logy must be	present,
								unless disturb	ed or problen	natic.
Restrictive I	Layer (if observed):									
Туре:	grav	vel								
Depth (ir	nches):	0					Hydr	ic Soil Present?	Yes	NoX
Remarks:	-						Į			
This area is a	a gravel road- no soi	ls present.								



Upland AA-6- View facing west

Segment 9- Package 5B

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Selkirk</u>	Sampling Date: <u>11/18/21</u>
Applicant/Owner: <u>CHA</u>	State: <u>NY</u>	Sampling Point: <u>GA-4</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Selkirk</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.53884</u>	Long: <u>-73.81896</u>	Datum: <u>NAD83</u>
Soil Map Unit Name:	NWI class	sification: PSS
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes <u>No</u> (If no, explain i	in Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> signific	antly disturbed? Are "Normal Circumstance	es" present? Yes 🔀 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> natural	lly problematic? (If needed, explain any ans	swers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur Wetland GA	res here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	☐ Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Qxidized Rhizospheres on Living	Roots (C3)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 📃 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>X</u> No <u></u> Depth (inches): 1	
Water Table Present? Yes 🛛 No 🗋 Depth (inches): 8	
Saturation Present? Yes X No Depth (inches): 4	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe)	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes Xes Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes Xes No Image: Comparison of the second se
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No X
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes X No .
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes Xes Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No :
Saturation Present? Yes Xes Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> No tions), if available:
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>No</u> .
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes <u>No</u> Depth (inches): 4 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>No</u> .

Sampling Point: <u>GA-4</u>

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1 Fravinus americana	15	YES FACU	Number of Dominant Species
2			
2			Total Number of Dominant
3		<u> </u>	Species Across Air Strata. (B)
4		<u> </u>	Percent of Dominant Species
5		<u> </u>	
6		<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)			FACW species x 2 =
1. Cornus sericea	60	YES FACW	FAC species x 3 =
2. Lonicera son	20	YES FACU	FACU species x 4 =
3		· · ·	UPL species x 5 =
0			Column Totals: (A) (B)
4		<u> </u>	Prevalence Index = B/A =
5		<u> </u>	
6		<u> </u>	Hydrophytic Vegetation Indicators:
7		<u> </u>	□ 1 - Rapid Lest for Hydrophytic Vegetation
		= Total Cover	\Box 2 - Dominance Test is >50%
<u>Herb Stratum</u> (Plot size: <u>5</u>)			\Box 3 - Prevalence index is ≤ 3.0
1. Scirpus spp.	40	YES OBL V	data in Remarks or on a separate sheet)
2. Lythrum salicaria	15		Problematic Hydrophytic Vegetation ¹ (Explain)
3. Juncus spp.	30		¹ Indicators of hydric soil and wetland hydrology must
4		·····	be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
<u> </u>		<u></u>	
o		<u> </u>	at breast height (DBH), regardless of height.
/		<u> </u>	On the definition of the set of t
8		<u> </u>	and greater than or equal to 3.28 ft (1 m) tall.
9		<u> </u>	
10		<u> </u>	size, and woody plants less than 3.28 ft tall.
11		<u> </u>	
12		<u> </u>	woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1 Vitis riparia	0		
	<u> </u>		Hydrophytic
2		<u> </u>	Vegetation
3		<u> </u>	
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

(inches) 0-16	Matrix		Redo	x Feature	<u>s</u>			
0-16	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	10YR/3/1	94	10yr/5/6	6			CISiL	Prominent redox
					-	_		
					·		·	
					· <u>- </u>	-		
					<u> </u>	-		
					_	_		
					· <u>-</u>	-		
					<u> </u>	-		
					-	_		
					·		·	
					-	-		
		_			-	_		
					·			
						-		
Гуре: С=Сс	oncentration, D=Dep	pletion, RN	I=Reduced Matrix, M	S=Maskeo	d Sand Gra	ains.	² Location	: PL=Pore Lining, M=Matrix.
lydric Soil I ¬	ndicators:		-				Indicators	for Problematic Hydric Soils [*] :
Hydrogel Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	n Sulfide (A4) I Layers (A5) I Below Dark Surfac Irk Surface (A12) Iucky Mineral (S1) Ieyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, I	e (A11) MLRA 149 ation and w	Loamy Mucky I Loamy Gleyed Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress B) retland hydrology mus	Mineral (F Matrix (F2 x (F3) Irface (F6) Surface (F sions (F8)	1) (LRR K 2) 	, L) s disturbed	Dark S	Surface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) bark Surface (S9) (LRR K, L) langanese Masses (F12) (LRR K, L, I ont Floodplain Soils (F19) (MLRA 149 Spodic (TA6) (MLRA 144A, 145, 149 arent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks)
estrictive L	ayer (if observed).	:						
Type	a booly		-				Hudria Sail	
Denskie (im e	cnes):		-				HVaric Soli	Present (tes I/N NO I I



Wetland GA- Soils

SITE PHOTOGRAPHS

Phase 5

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Selkirk</u>		_ Sampling Date: <u>11/18/21</u>	
Applicant/Owner: <u>CHA</u>		State: <u>NY</u>	Sampling Point: <u>HA-101</u>	
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range	ə: <u>Selkirk</u>		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex	ς none):	Slope (%):	
Subregion (LRR or MLRA): <u>LRR R</u> Lat	: <u>42.53838</u> Long: .	Long: <u>-73.81717</u>		
Soil Map Unit Name:		NWI classif	ication: PEO	
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes 🛛 🛛 No 🗌]_ (If no, explain in	Remarks.)	
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> _	significantly disturbed? Are "Nc	rmal Circumstances"	present? Yes 🔀 No 🗌	
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u>	naturally problematic? (If need	ed, explain any answ	ers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area
Hydric Soil Present?	Yes No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procee Wetland HA	dures here or in a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	☐ Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3) 🔲 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 🛛 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🛛 No 🔲 Depth (inches): 1	
Water Table Present? Yes X No Depth (inches): 5	
Saturation Present? Yes X No Depth (inches): 3	Wetland Hydrology Present? Yes 🖄 No 🗌
Saturation Present? Yes <u>X</u> No <u>Depth</u> (inches): 3 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes X No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>X</u> No tions), if available:
Saturation Present? Yes No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>X</u> No tions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes Xes Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes X No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes Yes Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes X No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes X No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>X</u> No

Sampling Point: <u>HA-101</u>

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Indicator	Dominance Test worksheet:
1 Fravious americana	<u>-/6 00000</u> 15		Number of Dominant Species
2			That Are OBL, FACW, of FAC: <u>3</u> (A)
2	·		Total Number of Dominant
<u> </u>			$\frac{1}{2}$
4		<u> </u>	Percent of Dominant Species
5		<u> </u>	(A/B)
6	<u> </u>	<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)			FACW species x 2 =
1. Cornus sericea	<u>6</u> 0	YES FACW	FAC species x 3 =
2.			FACU species x 4 =
3.			UPL species x 5 =
4			Column Totals: (A) (B)
5			Prevalence Index = B/A =
<u> </u>	·		Hydronhytic Vegetation Indicators:
o		<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
/		<u> </u>	\boxtimes 2 - Dominance Test is >50%
		= Total Cover	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: <u>5</u>)	40		4 - Morphological Adaptations ¹ (Provide supporting
	40		Problematic Hydrophytic Vegetation ¹ (Explain)
2. Equisetum spp.		YES FACW	
3		_	¹ Indicators of hydric soil and wetland hydrology must
4		<u> </u>	be present, unless disturbed of problematic.
5		<u> </u>	Definitions of Vegetation Strata:
6		<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		<u> </u>	at breast height (DBH), regardless of height.
8		<u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9.		<u> </u>	and greater than or equal to 3.28 ft (1 m) tall.
10.			Herb – All herbaceous (non-woody) plants, regardless of
11			size, and woody plants less than 3.28 ft tall.
12			Woody vines – All woody vines greater than 3.28 ft in
	100	- Total Cover	neight.
	100		
1	. <u></u>		Hydrophytic
2		<u> </u>	Vegetation
3		<u> </u>	Present? Yes 🔼 No 🗋
4		<u> </u>	
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	<u>s</u>			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR/3/2	90	7.5yr/4/6	10	-	-	SiLo	Prominent redox
						-		·
					_	_		
·								
					-	-		
					-			
					-	-		
					_	_		
				·				
					-	-		
·				·			;	·
¹ Type: C=Co	oncentration, D=Dep	oletion, RN	I=Reduced Matrix, M	S=Maskeo	l Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:		_				Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) (LR	R,	2 cm N	/luck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast	Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (I	_RR R, M	LRA 149B)) 📙 5 cm N	lucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky I	Mineral (F	1) (LRR K	., L)	Dark S	urface (S7) (LRR K, L, M)
Stratified	d Layers (A5)		Loamy Gleyed	Matrix (F2	2)		Polyva	lue Below Surface (S8) (LRR K , L)
	d Below Dark Surfac	æ (A11)	Depleted Matrix	x (F3)				ark Surface (S9) (LRR K, L)
	ark Surface (A12)			Irface (F6)				anganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)			Surface (F	-7)			ont Floodplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress	sions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							arent Material (F21)
	Matrix (S6)		n \					nallow Dark Surface (TF12)
	nace (S7) (LRR R, I	MLRA 149	в)					Explain in Remarks)
³ Indicators of	f hydrophytic yogota	tion and w	otland hydrology mu	et ha pros	ont unloci	e disturbod	or problematic	х.
Restrictive I	aver (if observed)		ettantu nyurology mus	st be press	ent, unico:	s distui beu		<i>.</i>
Turner	Layer (II Observed)	•						
Type:			-					
Depth (inc	ches):		-				Hydric Soil	Present? Yes 🔼 No 📋
Remarks:								



Wetland HA- Soils

SITE PHOTOGRAPHS

Phase 5

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: Selkirk Sampling Date: 11/18/2021
Applicant/Owner: CHA	State: NY Sampling Point: GA-7/HA-101
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	cal relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.53846	Long: -73.8173 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
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 dis	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally proble	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	NoX	Is the Sampled Area
Hydric Soil Present?	Yes	NoX	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced	ures here or in a	separate report.)	apart
Upland test site between WL GA/HA.	They are approx	imately 50 yards a	

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of on	ie is required; check al		Surface Soil Cracks (B6)					
Surface Water (A1)	Drainage Patterns (B10)							
High Water Table (A2)	Aquat	ic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	Marl C	Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)	Hydro	gen Sulfide Odor (C1)		Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidiz	ed Rhizospheres on Living R	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Prese		Stunted or Stressed P	lants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)				Geomorphic Position ((D2)			
Iron Deposits (B5)	Thin N	/uck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Im	nagery (B7) Other	(Explain in Remarks)		Microtopographic Reli	ef (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):	Wetlar	nd Hydrology Present?	Yes No X			
(includes capillary fringe)		,						
Describe Recorded Data (stream of	gauge, monitoring well	, aerial photos, previous inspe	ections), if	available:				
, , ,			,,					
Remarks:								

Sampling Point: GA-7/HA-101

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fagus gandolfia	60	Yes	FACU	
2. Populus tremuloides	30	Yes	FACu	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				
4.				Species Across All Strata: 5 (B)
5.				Percent of Deminant Species
6.				That Are OBL, FACW, or FAC: 20.0% (A/B)
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 0 x 1 = 0
1. Lonicera spp.	20	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 20 x 3 = 60
3				FACU species 120 x 4 = 480
4.				UPL species 0 x 5 = 0
5.				Column Totals: 140 (A) 540 (B)
6.				Prevalence Index = B/A = 3.86
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Galium spp.	10	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Solidago spp.	20	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and watland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Meedy slants 2 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Senting/shrub Weady plants loss than 2 in DPU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Here All borbossous (non-woods) planta recording
	30	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)				
1.				height.
2.				
3.				Hydrophytic Verstation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

(inches) Color (moist) % Color (moist) % Type Loc ² Texture Remarks 0-16 10yr 4/3 100	Depth	Matrix		Redo	x Featu	res					
0-16 10yr 4/3 100	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rema	rks
Image: Second strate (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1498) Image: Second strate (A1) Polyvalue Below Surface (S9) (LRR R, MLRA 1498) Image: Second strate (A2) Image: Second strate (S1) (LRR K, L) Image: Second strate (A2) Image: Second strate (S2) (LRR R, MLRA 1498) Image: Second strate (A2) Image: Second strate (S2) (LRR R, MLRA 1498) Image: Second strate (S3) (LRR K, L) Polyvalue Below Surface (S3) (LRR K, L) Image: Second strate (S4) Image: Second strate (S3) (LRR K, L) Image: Second strate (S4) Image: Second strate (S3) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LRR K, L) Image: Second strate (S5) Image: Second strate (S5) (LRR K, L) Image: Second strate (S5) Image: Second strate (S6) (LRR K, L) Image: Second strate (S4) Image: Second strate (S4) (LR K, L) Image: Second strate (S4) Image: Second strate (S4) (LR K, L) Image: Second strate (S6) Image: Second strate	0-16	10yr 4/3	100					Loamy/Clayey			
Image:											
Image: Soli Indicators: Image: Soli Indicators: Image: Soli Indicators: Image: Soli Indicators: Image: Indicators: Image: Indit Indit Indicators: <td< td=""><td></td><td></td><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td></td></td<>						·					
**Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Phydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Pidemont Floodplain Solif (F19) (MLRA 1445) Pedownt Floodplain Solif (F19) (MLRA 145, 14 Sandy Mucky Mineral (S1) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Marl (F10) (LRR K, L) Depletem darks (F22) Dark Surface (S7) Marl (F10) (LRR K, L) Depletem darks (F22) Dark Surface (S7) <											
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Thin Dark Surface (F7) Polyvalue Below Surface (F7) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F6) Striped Matrix (S6) Matrix (F2) Dark Surface (S7) Watrix (F2) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Depletid present? Yere: No _X			·			·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R,											
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Histo: Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (A12) Depleted Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sand Harial (F21) Marl (F10) (LRR K, L) ************************************						·					
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, L) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Stratified Layers (G5) Stripped Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Redox Depressions (F8) Stripped Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Matri (F10) (LRR K, L) Depleted Intervence (S7) Piedmont Floodplain in Remarks) Dark Surface (S7) Matrix (S6) Dark Surface (S7) Hydric Soil Present? Yere No _X											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, L Histosol (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Stratified Layers (S5) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Jariped Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Matri (F10) (LRR K, L) Shipped Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Matri (F10) (LRR K, L) Dark Surface (S7) Redox Depressions (F8) Bardy Filter (Cold Present? Yes											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, Thick Dark Surface (A12) Depleted Matrix (S4) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Marl (F10) (LRR K, L)											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R,2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thic Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (S7) Matrix (S6) Matrix (S6) Matri (F10) (LRR K, L) Dark Surface (S7) Sitipped Matrix (S6) Matrix (S6) Matrix (F10) (LRR K, L) Depleted Dark Surface (S7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Dark Surface (S7) Matrix (S6) Matrix (F10) (LRR K, L) Other (Explain in Remarks)<											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck (A10) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thin Dark Surface (F3) Thick Dark Surface (A12) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14A, 145, 14			<u> </u>			·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, P) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 145, 14 Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Restrictive Layer (if observed): Type: Type:											
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Restrictive Layer (if observed): Type: Type:	¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	//S=Mas	sked San	d Grains.	² Locatio	n: PL=Pore	Lining, M=Ma	ətrix.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L, C) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, C) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Dark Surface (S7) Other (Explain in Remarks) Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Mark (Soil Present? Yes No X Popth (inches):	Hydric Soil	Indicators:						Indicato	ors for Prob	lematic Hydr	ric Soils³:
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, L) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sale present; unless disturbed or problematic. Restrictive Layer (if observed): Type:	Histosol	(A1)		Polyvalue Belo	w Surfa	ace (S8) (LRR R,	2 cr	n Muck (A1	D) (LRR K, L,	MLRA 149B)
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, L, High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, L) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Restrictive Layer (if observed): Type: Type:	Histic E	pipedon (A2)		MLRA 149B	5)			Coa	st Prairie R	edox (A16) (L l	RR K, L, R)
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, L) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 144) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sitripped in Beserved): Type: Type:	Black Hi	istic (A3)		Thin Dark Surf	ace (S9) (LRR R	, MLRA	1 49B)5 cr	n Mucky Pe	at or Peat (S3) (LRR K, L, R)
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 14 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Restrictive Layer (if observed): Type: Type:	Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	S11) (LR	R K, L)	Poly	value Belov	w Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, L, Piedmont Floodplain Soils (F19) (MLRA 1 Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	.) Thin Dark Surface (S9) (LRR K, L)			K , L)
Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Mark (inches): Mark (inches):	Deplete	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Manganese Masses (F12) (LRR K,			2) (LRR K, L, R
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X	Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piec	Imont Flood	lplain Soils (F	19) (MLRA 149
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes No X	Sandy N	/lucky Mineral (S1)		Redox Dark Su	urface (I	F6)		Mes	ic Spodic (ГА6) (MLRA 1	44A, 145, 149E
Sandy Redox (S5)Redox Depressions (F8)Very Shallow Dark Surface (F22)Other (Explain in Remarks)Other (Explain in Remarks)Other (Explain in Remarks)Other (Explain in Remarks)	Sandy C	Eleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red	Parent Mat	terial (F21)	
Stripped Matrix (S6)Marl (F10) (LRR K, L)Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes NoX	Sandy F	Redox (S5)		Redox Depres	sions (F	-8)		Ver	/ Shallow D	ark Surface (F	-22)
Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes NoX	Stripped	I Matrix (S6)		Marl (F10) (LR	R K , L)			Oth	er (Explain i	n Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Dark Su	rface (S7)									
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	2										
Restrictive Layer (if observed): Type: Type:	°Indicators o	f hydrophytic vegetat	tion and w	etland hydrology m	ust be p	resent, u	nless dist	turbed or problema	atic.		
Type:	Restrictive	Layer (if observed):									
Depth (inches): Hydric Soil Present? Yes No X	Type:										
	Depth (i	nches):						Hydric Soil Pr	esent?	Yes	<u>No X</u>
Remarks:	Remarks:										



Upland GA/HA – Soils

SITE PHOTOGRAPHS

Phase 5

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

Project/Site: CHPE City/C	City/County: Selkirk/Albany Sampling Date: 10/6/22						
Applicant/Owner: TDI	State: NY Sampling Point: P5-Z-10 Wet						
Investigator(s): C. Einstein & N. Frazer	_Section, Township, Range:						
Landform (hillside, terrace, etc.): depression Local relief (c	oncave, convex, none): concave Slope %: 0						
Subregion (LRR or MLRA): LRR R Lat: 42-32-16.43N	Long: <u>73-48-56.47W</u> Datum: <u>WGS84</u>						
Soil Map Unit Name: Hudson silt Ioam (HuB)	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 Hydrologysignificantly disturbed?	Are "Normal Circumstances" present? Yes x No						
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures h Red Maple Hardwood Swamp	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)					
Surface Water (A1)	X Water-Stained Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Saturation (A3) Marl Deposits (B15)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B	8)	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): Wetla	nd Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:				
Remarks:						

Sampling Point: P5-Z-10 Wet

	Absolute	Dominant	Indicator	Bandanaa Taataadahaata
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksneet:
1. Populus deltoides	45	Yes	FAC	Number of Dominant Species
2. Quercus rubra	15	Yes	FACU	That Are OBL, FACW, or FAC:5(A)
3. <u>Pinus strobus</u>	2	No	FACU	Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 71.4% (A/B)
7				Prevalence Index worksheet:
	62	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Rhamnus cathartica	15	Yes	FAC	FACW species 52 x 2 = 104
2. Cornus amomum	25	Yes	FACW	FAC species 85 x 3 = 255
3				FACU species x 4 =08
4.				UPL species 0 x 5 = 0
5.				Column Totals: 164 (A) 467 (B)
6.				Prevalence Index = B/A = 2.85
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 Dominance Test is >50%
	25	Vaa		$\frac{1}{2}$ 2 · Dominance results > 30 //
		<u>res</u>		$\frac{1}{2}$ 3 - Prevalence index is \geq 5.0
2. Toxicodendron radicans	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. <u>Onoclea sensibilis</u>	2	No	FACW	
4. Viburnum dentatum	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	52	=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')				, , ,
1 Parthenocissus quinquefolia	10	Vos	FACU	Woody vines – All woody vines greater than 3.28 ft in beight
		163	1700	neight.
2				Hydrophytic
3				Vegetation
4				Present?
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

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Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remark	(S
0-7	10YR 2/1	100					Loamy/0	Clayey			
7-16	10YR 4/1	80	10YR 5/6	20	С	М	Loamy/0	Clayey	Promir	nent redox co	oncentrations
	·										
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	d Grains.	²L	ocation: PL	=Pore Li	ning, M=Mat	rix.
Hydric Soil Histosol	Indicators:		Dark Surface	(\$7)			In	2 cm Muc	· Problei k (A10) (TRRKING	: SOIIS": II RA 149R)
Histic Fr	ninedon (A2)	(A2) Daik Suiface (S7) 2 Cit					Coast Pra	irie Redo	$(\Delta 16) (I \mathbf{R})$	RKIR)	
Black Hi	istic (A3)	-	MLRA 149E	3)	00 (00) (Litti it,	5 cm Mucky Peat or Peat (S3) (LRR				(LRR K. L. R)
Hvdroge	lydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA				. MLRA	149B)	Polvvalue	Below S	Surface (S8)	(LRR K. L)	
Stratified	Stratified Lavers (A5) High Chroma Sands (S11) (LRR K, L)				R K, L)		Thin Dark	Surface	(S9) (LRR M	(,,,, (,,,,,	
X Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, F				(LRR K, L, R)
Thick Da	ark Surface (A12)	· / -	Loamy Gleyed	l Matrix (F2)	. ,	Piedmont Floodplain Soils (F19) (MLRA 149				
Mesic S	podic (A17)	-	X Depleted Matr	ix (F3)	,			Red Parer	arent Material (F21) (outside MLRA 14		
(MLR	RA 144A, 145, 149B)	-	 Redox Dark S	urface (F	6)			Very Shal	low Dark	Surface (F2	2)
Sandy M	/lucky Mineral (S1)	-	Depleted Dark	Surface	(F7)			Other (Exp	plain in F	Remarks)	
Sandy G	Gleyed Matrix (S4)	-	Redox Depres	sions (F	8)						
Sandy F	Redox (S5)	-	Marl (F10) (LF	RR K, L)				³ Indicators	s of hydro	ophytic vege	tation and
Stripped	l Matrix (S6)	-	Red Parent M	aterial (F	21) (MLI	RA 145)		wetland unless o	hydroloo disturbed	gy must be p I or problema	resent, atic.
Restrictive	Layer (if observed):									·	
Туре:	nor	ne									
Depth (i	nches):						Hydric	Soil Present	?	Yes X	No
Remarks:							-				



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

Project/Site: CHPE	City/County: Selkirk/A	lbany	Sampl	ing Date:	10/6/22
Applicant/Owner: TDI		State:	NY Sam	pling Point:	P5-Z-10 Upl
Investigator(s): C. Einstein & N. Frazer	Section, Tow	nship, Range:			
Landform (hillside, terrace, etc.): flat	Local relief (concave, convex	, none): <u>none</u>		Slope	%: 0
Subregion (LRR or MLRA): LRR R Lat:	42-32-16.43N Long:	73-48-56.47W		Datum:	WGS84
Soil Map Unit Name: Hudson silt loam (HuB)		NWI classific	cation: n/a		
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes <u>x</u>	No	(If no, explain	in Remarks	.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norma	al Circumstances	" present?	Yes <u>x</u>	No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answ	wers in Remar	ks.)	
	ahawing compliant point locati		1		+-

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures forested upland	here or in a separate report.)	

Wetland Hydrology Indicators:			Secondary Indicators (minim	num of two required)		
Primary Indicators (minimum of one is require		Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)					
High Water Table (A2)	High Water Table (A2) Aquatic Fauna (B13)					
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)					
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Pla	nts (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D	2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)		
Sparsely Vegetated Concave Surface (B	8)		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):	Wetlan	d Hydrology Present?	Yes No X		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if	available:			
Remarks:						

Sampling Point: P5-Z-10 Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Hamamelis virginiana	5	No	FACU	Number of Dominant Species
2. Quercus rubra	90	Yes	FACU	That Are OBL, FACW, or FAC:(A)
 Fagus grandifolia 	5	No	FACU	Total Number of Dominant Species Across All Strata:5(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7.				Prevalence Index worksheet:
	100	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Carpinus caroliniana	20	Yes	FAC	FACW species $0 x 2 = 0$
2. Hamamelis virginiana	5	Yes	FACU	FAC species 28 x 3 = 84
3.				FACU species 117 x 4 = 468
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 145 (A) 552 (B)
6.				Prevalence Index = B/A = 3.81
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum(Plot size: 5')				2 - Dominance Test is >50%
1 Carbinus caroliniana	8	Yes	FAC	$3 - Prevalence Index is \leq 3.0^1$
2 Aralia nudicaulis	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3 Hamamelis virginiana	2	No	FACU	data in Remarks or on a separate sheet)
	<u> </u>			Problematic Hydrophytic Vegetation ¹ (Explain)
т. 				
6				¹ Indicators of hydric soil and wetland hydrology must
7				Definitions of Vocatation Strata:
· · · · · · · · · · · · · · · · · · ·				
0.				Tree – Woody plants 3 in. (7.6 cm) or more in
9				
10				Sapling/shrub – Woody plants less than 3 in. DBH
10				
12	20	-Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Marchy Vino Stratum (Plot size: 30')	20			
				Woody vines – All woody vines greater than 3.28 ft in
1				neight.
2				Hydrophytic
3				Vegetation
4				
		= I otal Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth Matrix (inches) Color (moist) 0-3 10YR 2/1 3-16 10YR 5/3	<u>%</u> <u>100</u> <u>100</u> 	Redo. Color (moist)	x Featur % 	<u>Type</u> 1 	<u>Loc</u> ²	Texture Loamy/Clayey Loamy/Clayey	Rema	rks
(inches) Color (moist) 0-3 10YR 2/1 3-16 10YR 5/3	<u>%</u> <u>100</u> <u>100</u> 	Color (moist)	<u>%</u> 	<u>Type</u> ¹	<u>Loc</u> ²	Texture	Rema	rks
0-3 10YR 2/1 3-16 10YR 5/3	<u>100</u> <u>100</u> 			 	·	Loamy/Clayey Loamy/Clayey		
<u>3-16</u> <u>10YR 5/3</u>	<u> 100 </u>				·	Loamy/Clayey		
					·			
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					<u> </u>			
					<u> </u>			
¹ Type: C=Concentration, D=Depl	etion, RM=R	Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	² Location: PL:	=Pore Lining, M=M	atrix.
Hydric Soil Indicators:						Indicators for	Problematic Hydi	ic Soils ³ :
Histosol (A1)		Dark Surface (S7)	<i>(</i> - -) <i>(</i>		2 cm Muc	k (A10) (LRR K, L,	MLRA 149B)
Histic Epipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	Coast Pra	irie Redox (A16) (L	
Black Histic (A3)		MLRA 149B) 'aaa (S0'			5 cm Mucl	Ky Peat or Peat (Sc Rolow Surface (Sc	
Stratified Lavers (A5)		High Chroma	ace (39) Sande (9) (LKK K) 311) (I D E	, IVILICA I DIKI I)	Thin Dark	Surface (SQ) (I PP	$(\mathbf{L}\mathbf{K}\mathbf{K}\mathbf{K},\mathbf{L})$
Depleted Below Dark Surface	(A11) —	_ Loamy Mucky	Mineral	(F1) (LR	RKI)	Iron-Mang	anese Masses (F1	\mathbf{R}, \mathbf{L}
Thick Dark Surface (A12)	(ATT)	_ Loamy Gleved	Matrix ((11) (EIXI F2)	、 Γ 、 Ε)	Piedmont	Floodplain Soils (F	19) (MLRA 149B)
Mesic Spodic (A17)		Depleted Matri	x (F3))		Red Parer	nt Material (F21) (o	utside MLRA 145
(MLRA 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very Shall	ow Dark Surface (F	-22)
Sandy Mucky Mineral (S1)		 Depleted Dark	Surface	(F7)		Other (Exp	plain in Remarks)	
Sandy Gleyed Matrix (S4)		Redox Depress	sions (F	8)				
Sandy Redox (S5)	_		R K, L)			³ Indicators	s of hydrophytic veg	etation and
Stripped Matrix (S6)	_	_Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetland	hydrology must be	present,
						unless o	listurbed or probler	natic.
Restrictive Layer (if observed):								
Type:non	Э							
Depth (inches):						Hydric Soil Present	? Yes	<u>No X</u>
Remarks:								
1								



Upland P5-Z-10- View facing northwest



Upland P5-Z-10- Soils

Segment 9- Package 5B

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

Project/Site: CHPE City/	County: Selkirk/Albany Sampling Date: 10/6/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-BB-3 Wet
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local relief	(concave, convex, none): <u>concave</u> Slope %: <u>0</u>
Subregion (LRR or MLRA): LRR R Lat: 42-32-16.41N	Long: <u>73-48-51.02W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Hudson silt loam (HuB)	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 disturbed?	Are "Normal Circumstances" present? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures Common reed marsh.	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)			
Surface Water (A1)	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 Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in 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 Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	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): Wetla	nd Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
Remarks:				

Sampling Point: P5-BB-3 Wet

Tree Stratum (Plot size: 30') % Cover Species? Status Dominance Test worksheet: 1.	
1.	
	3 (A)
3. Total Number of Dominant 4. Species Across All Strata: 4	4 (B)
5.	0% (A/B)
7 Prevalence Index worksheet:	、 /
=Total Cover Total % Cover of: Multip	ly by:
Sapling/Shrub Stratum (Plot size: 15') OBL species 15 x 1 =	15
1. Fraxinus pennsylvanica 10 Yes FACW FACW species 113 x 2 =	226
2. FAC species 15 x 3 =	45
3. FACU species 8 x 4 =	32
4. UPL species 0 x 5 =	0
5. Column Totals: 151 (A)	318 (B)
6. Prevalence Index = B/A =	2.11
7. Hydrophytic Vegetation Indicators:	
10 =Total Cover 1 - Rapid Test for Hydrophytic Veget	ation
Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50%	
1. <i>Phragmites australis</i> 65 Yes FACW X 3 - Prevalence Index is ≤3.0 ¹	
2. Impatiens capensis 30 Yes FACW 4 - Morphological Adaptations ¹ (Prov	ide supporting
3. <i>Lythrum salicaria</i> 10 No OBL data in Remarks or on a separate	sheet)
4. Onoclea sensibilis 8 No FACW Problematic Hydrophytic Vegetation ¹	(Explain)
5. Microstegium vimineum 15 No FAC Indicators of hydric acil and watland hyd	rology must
6. Persicaria sagittata 5 No OBL be present, unless disturbed or problema	tic.
7 Definitions of Vegetation Strata:	
8 Tree – Woody plants 3 in. (7.6 cm) or mo	ore in
9 diameter at breast height (DBH), regardle	ess 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) plant	ts. regardless
=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 t	han 3.28 ft in
1. Vitis aestivalis 8 Yes FACU height.	
2	
3 Hydrophytic	
4 Present? Yes X No	
=Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument tl	he indica	ator or c	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)		Color (moist)	%	Туре'	Loc ²	Texture	Remarks
0-6	10YR 2/1	95	10YR 4/6	5	<u> </u>	PL	Loamy/Clayey	Prominent redox concentrations
6-11	10YR 4/1	80	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations
11-16	10YR 4/2	65	10YR 5/8	30	C	M	Loamy/Clayey	Prominent redox concentrations
			10YR 3/1	5	C	M		Faint redox concentrations
		·						
		·						
		·						
¹ Type: C=C	oncentration, D=Dep	letion, RN	I=Reduced Matrix, N	/IS=Mas	ked Sano	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:			(07)			Indicators f	or Problematic Hydric Soils":
Histosol	(A1)		Dark Surface (S7)	(00)		2 cm Mi	uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (LRR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black Histic (A3) MLRA 149B)5 cm Mucky Peat or Peat (S3) (LR						ucky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (ue Below Surface (S8) (LRR K, L)		
Stratified	d Layers (A5)		High Chroma S	Sands (S	611) (LR I	R K, L)	Thin Da	rk Surface (S9) (LRR K, L)
X Deplete	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
Mesic S	podic (A17)		X Depleted Matri	ix (F3)			Red Par	rent Material (F21) (outside MLRA 145)
(MLR	RA 144A, 145, 149B)		X Redox Dark Su	urface (F	6)		Very Sh	allow Dark Surface (F22)
Sandy N	/lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	Explain in Remarks)
Sandy G	Gleyed Matrix (S4)		Redox Depres	sions (F	8)		2	
Sandy F	Redox (S5)		Marl (F10) (LR	R K, L)			³ Indicate	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLI	RA 145)	unles	nd hydrology must be present, s disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:	nor	ne						
Depth (i	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



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

Project/Site: CHPE Ci	ty/County: Selkirk/Albany Sampling Date: 10/6/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-BB-3 Upl
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local relie	ef (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-32-16.41N	Long: <u>73-48-51.02W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Hudson silt Ioam (HuB)	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 Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures Gravel roadside data points for P5-BB-3 Up	nere or in a separate report.) I and P5-CC-6 Upl.	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)) Other (Explain in Remarks)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B	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): Wet	Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

Sampling Point: P5-BB-3 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:							
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)							
3 4				Total Number of Dominant Species Across All Strata:1(B)							
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)							
7.				Prevalence Index worksheet:							
		=Total Cover		Total % Cover of: Multiply by:							
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0							
1.				FACW species 1 x 2 = 2							
2.				FAC species 80 x 3 = 240							
3.				FACU species $0 x 4 = 0$							
4.				UPL species 0 x 5 = 0							
5.				Column Totals: 81 (A) 242 (B)							
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$							
7.				Hydrophytic Vegetation Indicators:							
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation							
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%							
1 Microstegium vimineum	80	Yes	FAC	3 - Prevalence Index is <3.01							
2 Impatiens capensis	1	<u> </u>	FACW	4 - Morphological Adaptations ¹ (Provide supporting							
3	<u>.</u>			data in Remarks or on a separate sheet)							
· · · · · · · · · · · · · · · · · · ·				Problematic Hydrophytic Vegetation ¹ (Explain)							
4											
5				¹ Indicators of hydric soil and wetland hydrology must							
o				be present, unless disturbed or problematic.							
<i>I</i>				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	81	=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 Vegetation							
4.				Present? Yes X No							
		=Total Cover									
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1							
	,										
Leprin Matrix Record reatures (incles) Color (moist) % Color (moist) % Type Loc ² Texture Remarks (incles) Color (moist) % Color (moist) % Type Loc ² Texture Remarks (incles) Color (moist) % Color (moist) % Type Loc ² Texture Remarks (incles) Color (moist) % Color (moist) % Type Color (moist) %							tor or co	ommine absence c	of indicators	5.)	
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(inches) Color (moist) % Type Loc Texture Remarks Image: Strate Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Image: Strate Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosel (A1) Dark Surface (S7) Black Histos (A3) MLRA 1495) Histosel (A1) Dark Surface (S9) (LRR R, MLRA 1498) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) Mesic Sopoel Matrix (S4) Red Dark Surface (F6) Sandy Wucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Reacox Depressions (F8) Sandy Gleye		Matrix		Redo	x Featur	res1	- 2	- ·		_	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators:	(inches) Co	lor (moist)		Color (moist)		I ype '	Loc	lexture		Remar	ks
Image: Soli present? Image: Soli present. Image: Soli present. Image: Soli present. Image: Soli p											
Image: Solution of the second stress of t											
Image: Strate (A1) Image: Strate (S1) Image: Strate (A2) Image: Strate (S2) Image: Strate											
Image:											
Image: construction is a construction of the second sec											
Image: constraint in the second state in the second sta											
Image:											
Image:											
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils [*] : Histic Soil Indicators: Dark Surface (S7) Histic Spipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Hydrogen Suffice (A4) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S1) (LRR K, L) Depleted Below Surface (A12) Loamy Gleyed Matrix (F2) Mexic Spoidic (A17) Depleted Matrix (F3) Mexic Spoidic (A17) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Mart (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (If observed): Type: Type: gravel Depleted news i: 0 Potynalue Below II (C10) (LRR K, L) Remarks: Gravel roadside- no soils present. <td></td>											
Image:											
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydric Soil Indicators: Som Mucky Paet or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Mark 144A, 145, 149B) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 1445) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Type: gravel Depth (inches): 0 Depth (inches): 0 High Chroma Sand Sing Chroma Sand Sin											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Solts (F19) (MLRA 1448, 145, 149B) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain in Remarks) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): 0 Hydric Soil Present? Yes No 2 Remarks: Gravel roadside- no soils present. 0 Hydric Soil Present? No 2											
Image:											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F6) Mark 1449, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Type: gravel Depth (Inches): 0 Depth (Inches): 0 High Chroma Sander (C12) High Chroma Sander (C12) Muck (A10) (LRR K, L) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck Peet or Peet (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Meet or Peet (S2) (LRR K, L) Mesic Spodic (A17) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Medox (S5) Matl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: gravel 0 Hedric Soil Present? No 2 Remarks: Gravel roadside- no soils present. No 2											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) MKRA 149B) Redox Dark Surface (F6) (MLRA 1445, 149B) Redox Dark Surface (F7) Objected Matrix (S4) Redox Darek Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Gleyed Matrix (S6) Matri (F10) (LRR K, L) Type: gravel Depth (inches): 0 Hydric Soil Present? Yes No< 2											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 1499) Histoic (A3) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 1445) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLF (F22) Sandy Rucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Mart (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: gravel Depth (inches): 0 Depth (inches): 0 Hot Cost Present? Yes No 3 Remarks: Gravel roadside- no soils present. No 3											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Marl (F10) (LRR K, L) Type: gravel Depth (inches): 0 Depth (inches): 0 Mark (F10) Hugh C Soil Present? Yes No											
1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrigen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Maskady Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Redox (S5) Matri (F10) (LRR K, L) Type: gravel Depth (inches): 0 Mest: Gravel roadside- no soils present. 0											
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149 Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, R Black Histic (A3) MLRA 149B 5 cm Mucky Peat or Peat (S3) (LRR K, L High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLF MuRA 1449B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Depth (inches): 0 Hermiter Hardine Soil Present? Yes	¹ Type: C=Concentra	ation, D=Depl	etion, RN	I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Location: F	L=Pore Lin	ing, M=Ma	trix.
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149 Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R,	Hydric Soil Indicat	ors:						Indicators f	or Problem	atic Hydri	c Soils ³ :
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Coast Prairie Redox (A16) (LRR K, L, R 5 cm Mucky Peat or Peat (S3) (LRR K, L, Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA K, L) MuRA 1449. 1445, 149. (MLRA 1445, 149. (S1) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel No _2 Depth (inches): 0 Hydric Soil Present? No _2 Remarks: Gravel roadside- no soils present. No _2	Histosol (A1)			Dark Surface (S7)			2 cm M	uck (A10) (L	RR K. L. N	ILRA 149B)
India Epipeon (VE)	Histic Epipedon	(A2)		Polyvalue Belo	ow Surfa	ce (S8) (I	RR R	Coast P	rairie Redo	(A16) (I R	RKIR)
	Black Histic (A3)		MI RA 1498				5 cm M	icky Peat of	() (10) (_1)	
)		Thin Dark Surf	') 					rfood (S0)	
		e (A4)						Folyvan			(LKKK,L)
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLF (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Redox (S5) Marl (F10) (LRR K, L) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Pepth (inches): 0 Remarks: Gravel roadside- no soils present. 0 Hydric Soil Present? Yes No 2	Stratified Layers	s (A5)		High Chroma	Sands (S	511) (LRF	(K, L)		rk Surface (59) (LRR I	K , L)
	Depleted Below	Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Iron-Ma	nganese Ma	asses (F12) (LRR K, L, R)
Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLF (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Hydric Soil Present? Yes No Reemarks: Gravel roadside- no soils present. 0 Hydric Soil Present. Yes No	Thick Dark Surf	ace (A12)		Loamy Gleyed	Matrix (F2)		Piedmo	nt Floodplai	n Soils (F1	9) (MLRA 149 E
(MLRA 144A, 145, 149B)	Mesic Spodic (A	(17)		Depleted Matri	ix (F3)			Red Pa	rent Materia	l (F21) (ou	tside MLRA 14
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Ves No N	(MLRA 144A	, 145, 149B)		Redox Dark Si	urface (F	=6)		Very Sh	allow Dark	Surface (F2	22)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): rype: Type: gravel Depth (inches): 0 Remarks: Gravel roadside- no soils present.	Sandy Mucky M	ineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Re	emarks)	
Sandy Redox (S5) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Depth (inches): 0 Hydric Soil Present? Yes Remarks: Gravel roadside- no soils present.	Sandy Gleyed N	latrix (S4)		Redox Depres	sions (F	8)					
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: gravel Depth (inches): 0 Hydric Soil Present? Yes No Remarks: Gravel roadside- no soils present. Image: Soil Stripped Matrix (S6) Image: Soil Stripped Matrix (S6)	Sandy Redox (S	\$5)		Marl (F10) (LR	RK,L)			³ Indicate	ors of hydro	phytic vege	etation and
Restrictive Layer (if observed): Type: gravel Depth (inches): 0 Hydric Soil Present? Yes No Remarks: Gravel roadside- no soils present.	Stripped Matrix	, (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetla	nd hvdroloav	v must be r	present.
Restrictive Layer (if observed): Type:		()			(, (,	unles	s disturbed (or problem	atic
Type: gravel Depth (inches): 0 Remarks: Gravel roadside- no soils present.	Postrictivo Lavor (i	f observed):									
Type. graver Depth (inches): 0 Remarks: Gravel roadside- no soils present.		i observeu).	al.								
Depth (inches): 0 Remarks: Gravel roadside- no soils present.	туре.	giav	ei								
Remarks: Gravel roadside- no soils present.	Depth (inches):		0					Hydric Soil Prese	nt?	Yes	<u>No X</u>
Gravel roadside- no soils present.	Remarks:										
	Gravel roadside- no	soils present	_								
			•								



Upland BB-3- View facing west

Segment 9- Package 5B

SITE PHOTOGRAPHS

Champlain Hudson Power Express



Segment 9- Package 5B

SITE PHOTOGRAPHS

Champlain Hudson Power Express

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: Selkirk/Albany Sampling Date: 10/6/22
Applicant/Owner: TDI	State: NY Sampling Point: P5-CC-6 Wet
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Local r	elief (concave, convex, none): <u>none</u> Slope %: <u>0</u>
Subregion (LRR or MLRA): LRR R Lat: 42-32-15.46N	Long: <u>73-48-45.75W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Hudson silt Ioam (HuB)	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 Hydrologysignificantly disturt	Ded? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF SINDINGS Attach site man showing som	nling naint locations transacts important factures ato

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure Shrub swamp.	es here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	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 Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)	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): Wetl	and Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspections),	if available:		
Remarks:				

VEGETATION – Use scientific names of plants.

Sampling Point: P5-CC-6 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	25	Yes	FAC	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3				Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 71.4% (A/B)
7				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Fraxinus pennsylvanica	25	Yes	FACW	FACW species 105 x 2 = 210
2. Quercus rubra	5	No	FACU	FAC species 33 x 3 = 99
3. Cornus racemosa	8	Yes	FAC	FACU species 30 x 4 = 120
4.				UPL species 0 x 5 = 0
5				Column Totals: 168 (A) 429 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytic Vegetation Indicators:
··	38	-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Horb Stratum (Diot aize: 5')				2. Dominance Test is >50%
1 Organization (FIOUSIZE)	50	Vaa		\times 2 - Dominance results > 30 %
		<u>Yes</u>		$\frac{1}{2}$ S - Prevalence index is \leq 5.0
2. Impatiens capensis		Yes		data in Remarks or on a separate sheet)
3. Rosa multiflora		<u>No</u>	FACU	· · · · · · · · · · · · · · · · · · ·
4. Cornus amomum	5	No	FACW	Problematic Hydrophytic Vegetation (Explain)
5 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of height
10				
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 herbaceous (non woody) plants, regardless
	90	=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. Vitis aestivalis	5	Yes	FACU	height.
2. Celastrus orbiculatus	10	Yes	FACU	The described a
3				Vegetation
4				Present? Yes X No
	15	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1

Profile Dese	cription: (Describe	to the dep	oth needed to doc	ument tl	ne indica	ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10VR 2/1	100			<u>.,,,,,</u>			
6-16	10YR 3/1	80	10YR 3/6	20	С	PL/M	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=C Hydric Soil Histosol Histic E Black H Hydroge Stratified Depleter Thick Da Mesic S (MLF Sandy N Sandy C Sandy F Stripped Restrictive Type:	intervent intervent	 letion, RM	=Reduced Matrix, N Dark Surface (Polyvalue Belo MLRA 149E Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matr X Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR Red Parent Matrix)	<u>AS=Mas</u> <u>MS=Mas</u> <u>MS=Mas</u> <u>MS=Mas</u> <u>MS=Mas</u> <u>Mineral</u> <u>Mineral</u> <u>Matrix (</u> <u>Sands (S</u> <u>Mineral</u> <u>Matrix (</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u> <u>Surface</u>	 ked Sand ce (S8) (0 (LRR R 511) (LRI (F1) (LRI F2) 60 (F7) 8) 21) (MLF	LRR R, Grains.	2 cm Muc 2 cm Muc 3 cm Muc 2 cm Muc 2 cm Muc 3 cm Muc 2 cm Muc 2 cm Muc 2 cm Muc 3 cm Muc 2 cm Muc 3 cm Muc 2 cm Muc 2 cm Muc 2 cm Muc 2 cm Muc 2 cm Muc 2 cm Muc 3 cm Muc 2 cm M	
Dopth (i							Hudria Sail Brasan	ta Vac V Na
Depth (I	ncnes):						Hydric Soli Presen	t? fes <u>×</u> No



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>CHPE Phase 5</u>	City/County: <u>Selkirk</u>	5	Sampling Date: <u>11/18/21</u>
Applicant/Owner: <u>_CHA</u>		State: <u>NY</u>	_ Sampling Point: <u>IA-</u> 2
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range	≍ <u>Selkirk</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex	, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat:	_42.53657 Long: _	-73.80861	Datum: <u>NAD83</u>
Soil Map Unit Name:		NWI classificat	tion: <u>PFM</u>
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes 🔀 No 📘]_ (If no, explain in Rei	marks.)
Are Vegetation <u>NO</u> , Soil <u>YES</u> , or Hydrology <u>NO_</u>	significantly disturbed? Are "No	rmal Circumstances" pre	esent? Yes 🗵 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u>	naturally problematic? (If need	ed, explain any answers	s in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced Wetland IA, drainage on side of railway	dures here or in a separate report.)	
HYDROLOGY		

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Roots (C3) 🔲 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	oils (C6) 🛛 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 7	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes 🗵 No 🗌
(includes capillary fringe)	4:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	cions), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: <u>IA-2</u>

Tree Stratum (Plot size: 20)	Absolute	Dominant Indicator	Dominance Test worksheet:
	% Cover		Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3		<u> </u>	Species Across All Strata: (B)
4		<u> </u>	Percent of Dominant Species
5		<u> </u>	That Are OBL, FACW, or FAC: (A/B)
6		<u> </u>	Prevalence Index worksheet
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sanling/Shrub Stratum (Plot size: 15)			FACW species x 2 =
<u>Saping/Shub Shatam</u> (Fist size. <u>Fis</u>)			FAC species x 3 =
I			FACU species x 4 =
2		<u> </u>	UPL species x 5 =
3		<u> </u>	Column Totals: (A) (B)
4		<u> </u>	
5		<u> </u>	Prevalence Index = B/A =
6		<u> </u>	Hydrophytic Vegetation Indicators:
7.			I - Rapid Test for Hydrophytic Vegetation
		= Total Cover	☑ 2 - Dominance Test is >50%
Horb Stratum (Distaire)			\Box 3 - Prevalence Index is $\leq 3.0^1$
<u>Hero Stratum</u> (Plot size: <u>5</u>)	80		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2			Problematic Hydrophytic Vegetation ¹ (Explain)
2			
3:			be present, unless disturbed or problematic.
4			
5		<u> </u>	Definitions of vegetation Strata:
6		<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		<u> </u>	at breast height (DBH), regardless of height.
8		<u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9		<u> </u>	
10.			Herb – All herbaceous (non-woody) plants, regardless of
11			size, and woody plants less than 3.28 ft tall.
10			Woody vines – All woody vines greater than 3.28 ft in
12	100		neight.
	100	= Total Cover	
<u>Woody Vine Stratum</u> (Plot size: <u>3()</u>)			
1		__	I hadren hadte
2		<u> </u>	Vegetation
3		<u> </u>	Present? Yes 🔟 No 🗌
4.			
		= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		
	,		

Profile Des	cription: (Describe	to the dep	oth needed to docu	ment the i	ndicator	or confirm	the absence of indic	ators.)
Depth (inches)	Color (moist)	%	Color (moist)	<u>x ⊦eature:</u> %	<u>s</u> Type ¹	1 oc^2	Texture	Remarks
(incres)				/0	_турс_			Remarks
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1 								
Type: C=C	Concentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	Location: PL=PC	pre Lining, M=Matrix.
Hydric Soll	Indicators:		—				Indicators for Pro	Diematic Hydric Solis :
	I (A1)		Polyvalue Belo	w Surface	(S8) (LR F	R,	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
	pipedon (A2))				Redox (A16) (LRR K, L, R)
	listic (A3)			ace (S9) (L		_RA 149B)		eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)			Mineral (F	1) (LRR K	, L)	Dark Surface (S(r) (LRR K, L, M)
	d Layers (A5)	(Matrix (F2)			w Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)		x (F3)				ace (S9) (LRR K, L)
	ark Surface (A12)			Inface (F6)				
	Mucky Mineral (S1)			Surface (F	()			
	Gleyed Matrix (S4)		Redox Depress	sions (F8)				1A6) (MLRA 144A, 145, 149B)
	Redox (S5)							iterial (F21)
	d Matrix (S6)							Dark Surface (TF12)
🔟 Dark Su	urface (S7) (LRR R, N	ILRA 149	B)				U Other (Explain	in Remarks)
3								
Indicators of	of hydrophytic vegetat	ion and w	etland hydrology mu	st be prese	ent, unless	s disturbed	or problematic.	
Restrictive	Layer (if observed):							
Type: <u>Gr</u>	ave							
Depth (ir	nches): <u>0</u>						Hydric Soil Present	t? Yes 🗌 No 🔀
Remarks:								
Railroad ball	ast created restrictive I	aver						
		j						



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 5B		City/County: Selkirk	Sampling Date: 11/18/2021
Applicant/Owner: CHA		State: NY	Sampling Point: IA-109 JA-4 Upland
Investigator(s): Nick Dominic/Justin Williams		Section, Township, Range:	
Landform (hillside, terrace, etc.):	Local rel	ief (concave, convex, none):	Slope %:
Subregion (I RR or MI RA) I RR R MI RA 144	B Lat: 42 52934	Long: -73 80407	Datum: NAD83
Soil Map Unit Name:		NWI classification:	Upland
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes X No (If no.	explain in Remarks.)
Are Vegetation . Soil . or Hydrolog	significantly disturbe	d? Are "Normal Circumstances" pres	ent? Yes No
Are Vegetation Soil or Hydrolog	naturally problematic	? (If needed, explain any answers i	n Remarks)
SUMMARY OF FINDINGS – Attach si	te map showing sampl	ing point locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	es No X	Is the Sampled Area	
Hydric Soil Present?	es No X	within a Wetland? Yes	No X
Wetland Hydrology Present? Ye	es No X	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	or in a separate report.)		
	,		
Upland adjacent to IA			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Crack	s (B6)
Surface Water (A1)	Water-Stained Leaves (B9) Drainage Patterns	(B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B	316)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C) Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3) Saturation Visible	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	(C4) Stunted or Stresse	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in T	illed Soils (C6) Geomorphic Positi	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks) Microtopographic F	Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test ((D5)
Field Observations:			
Surface Water Present? Yes N	No X Depth (inches):		
Water Table Present? Yes N	lo X Depth (inches):		
Saturation Present? Yes N	lo X Depth (inches):	Wetland Hydrology Present?	Yes <u>No X</u>
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previo	ous inspections), if available:	
Remarks [.]			

VEGETATION – Use scientific names of plants.

Sampling Point: -109 JA-4 Upla

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	30	Yes	FACU	Number of Dominant Species
2. Juniperus virginiana	40	Yes	FACU	That Are OBL, FACW, or FAC:(A)
3 4				Total Number of Dominant Species Across All Strata: 5 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1. Lonicera spp.	20	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	30	Yes	FACU	FAC species 30 x 3 = 90
3				FACU species 120 x 4 = 480
4				UPL species 0 x 5 = 0
5.				Column Totals: 150 (A) 570 (B)
6.				Prevalence Index = B/A = 3.80
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Solidado spp.	30	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
7.				Definitions of Vegetation Strata:
8.				
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than of equal to 3.26 it (1 m) tail.
12	30	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
···		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			
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Depin       Matrix       redux realities         (inches)       Color (moist)       %       Type ¹ Loc ¹ Texture       Remarks         0-10       10yr 4/2       100	Depin       Matrix       Redux realities         (inches)       Color (moist)       %       Type!       Loc"       Texture       Remarks         0-10       10yr 4/2       100	Profile Des	cription: (Describe	to the dep	oth needed to doc	ument t	he indica	ator or co	onfirm the abso	ence of indica	ators.)	
Indicator         Codo (indust)         a         Type         Cod         Texture         Texture           0-10         10yr 4/2         100	Increasy       Codo (mosty)       n       Codo (mosty)       n       Techniks         0-10       10yr 4/2       100	Depth (inchos)	Color (moist)	0/_	Color (moist)		res Typo ¹		Toxturo		Poma	rke
0-10       10yr 4/2       100       Loamy/Clayey	0-10       10yr 4/2       100       Learny/Clayey			/0		/0	туре		Texture		Rema	11/2
Image: Surface (A1)       Polyvalue Below Surface (S8) (LRR R, L)         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Phydrie Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Polyvalue Below Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Learny Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)         Sandy Gleyed Matrix (S4)       Depleted Matrix (F3)         Sandy Medry Mineral (S1)       Red ox Dark Surface (F5)         Sandy Medry Mineral (S1)       Red ox Dark Surface (F7)         Sandy Medro (S5)       Redox Depressions (F8)         Sandy Medro (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Mari (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Mari (F10) (LRR K, L)       Other (Explain in Remarks)         Type:	Image: Solution:       Image: Solution: <td< td=""><td>0-10</td><td>10yr 4/2</td><td>100</td><td></td><td></td><td></td><td></td><td>Loamy/Clay</td><td>ey</td><td></td><td></td></td<>	0-10	10yr 4/2	100					Loamy/Clay	ey		
Image: Solid Registry of the second secon	Image: Soli Indicators:       Image: Soli Indicators:         Image: Soli Indicators:       Image: Soli Indicators: <td></td>											
Image:	Image: Solution in the second seco											
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soli Indicators:       Indicators for Problematic Hydric Solis ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Suffde (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Thin Dark Surface (F6)         Mesic Spodic (TA6) (MIRR 1444A, 145, 149         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Mard (F10) (LRR K, L)       Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes	*Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       *Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Histosol (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck (Pator Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A12)       Depleted Matrix (F2)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1491         Sandy Gleyed Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Jark Surface (S7)       Matrix (S6)       Marl (F10) (LRR K, L)         Other (Explain in Remarks)       Matrix (S6)       Matrix (S6)         Jark Surface (S7)       Matrix (S6)       Matrix (S6)       Very Shallow Dark Surface (F22)         Stripted Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)       Other (Explain in Remarks)         Jandicators of hydrophytic vegetation and wetland hydrol											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Polyealue Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thin Dark Surface (A12)       Depleted Matrix (F3)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Very Shallow Dark Surface (S7)       Red Parent Material (F21)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Thin Other (Explain in Remarks)         Dark Surface (S7)       Thin Chark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Thin Remarks)         Dark Surface (S7)       Present?         Yery Shallow Dark Surface (S7)       Present?         Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Present?       Yes	¹ Type: C=Concentration, D=Dapletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, RLR 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck (A10) (LRR K, L, RK, L, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, L, R       Polyvalue Below Surface (S3) (LRR K, L, R         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L, L)         Stratified Layers (A5)       Loarny Mucky Mineral (F1) (LRR K, L)       Thino Dark Surface (S9) (LRR K, L, C)         Depleted Below Dark Surface (A12)       Depleted Matrix (F3)       Pledmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1491         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Mart (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.						·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, PHydrogen Sulfide (A4)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 143)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 143)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       alnoteators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Depth (inches):       Yes_ No_ X   <	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, LR R, L)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       High Chroma Sands (S11) (LRR K, L)         Polyvalue Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)         Sandy Matrix (S6)       Matrix (F1)         Dark Surface (S7)       Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Type:       Depletion in Remarks:											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A2)       Indicators for Problematic Hydric Soils ³ :         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R Hydrogen Sulfide (A4)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (S5)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       The descretor)       The descretor) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Present?       Yes_       No_ X	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S3) (LRR K, L, R)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L, Coast Prairie Redox (A16) (LRR K, L, Coast Prairie Redox (A16) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1491         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Irdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or proble											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Lagrand Construction)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 143         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Polyvalue Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)         Thic k Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Very Shallow Dark Surface (S7)       Send Matrix (S6)         Dark Surface (S7)       Mart (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Type:       Deplet (inches):         Depth (inches):       Hydric Soil Present?       Yes						·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Lagrand Caster (S9) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A11)       Depleted Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F2)         Thick Dark Surface (A12)       Depleted Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)         Sandy Redox (S6)       Redox Depressions (F8)         Very Shallow Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Polyvalue Below Surface (S9) (LRR K, L)       Polyvalue Below Surface (S3) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149I)         Sandy Redex (S5)       Redox Dark Surface (F7)         Sandy Redex (S5)       Redox Depressions (F8)         Very Shallow Dark Surface (S7)       Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Remarks:			<u> </u>			·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L Castron Problematic Hydric Soils ³ )         Histosol (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Polytalue Below Dark Surface (A11)       Loamy Mucky Mineral (F2)         Thick Dark Surface (A12)       Depleted Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Sandy Redox (S5)       Mard (F10) (LRR K, L)         Other (Explain in Remarks)       Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Selection and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F3)       Piedmont Floodplain Soils (F19) (MIRR A 149E)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149E)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Peteret Material (F21)       Sandy Redox (S5)         *       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       *       Hydrogone Remarks:         *       Hydr	. <u></u>										
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histoc Epipedon (A2)       Indicators for Problematic Hydric Soils ³ :         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L, C)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (A11)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (F12) (LRR K, L, C)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149, MLRA 144, 145, 149, MLRA 144, MLRA 149, MLRA 144, MLRA 149, MLRA 144,											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histos Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, I)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Matri (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       "aldractors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic."         Restrictive Layer (if observed):         Type:	Hydric Soil Indicators:       Indicators:       Indicators:       Indicators:         Hydric Soil Indicators:       Polyvalue Below Surface (S8) (LRR R, Histosol (A1)       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, RLRA 149B)         Black Histic Chippedon (A2)       MLRA 149B)       S om Mucky Peat or Peat (S3) (LRR K, L, R Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)       Thin Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149I)         Sandy Mucky Mineral (S1)       Redox Derpressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149I)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         "Johrt Surface (S7)       Hydric Soil Present?       Yes	1 <b>T</b>		ation DM	- Deduceed Metric				21		Lining M-M	- <b>t</b> - <b>i</b>
myone son mutacators:	Histosol (A1)      Polyvalue Below Surface (S8) (LRR R,2 cm Muck (A10) (LRR K, L, MLRA 149B)	Type: C=C	oncentration, D=Dep	etion, RIVI	=Reduced Matrix, r	vis=ivias	sked San	d Grains.	Loca	tion: PL=Pore	Lining, M=Ma	atrix.
Histosof (A1)       Polyvalue Below Stringe (S8) (LRK K,	Histosti (A1)	Hydric Soli	Indicators:		Debuselue Dek		ر دور (۲۵) (		Indica	ators for Proc		
Inside Epipedon (A2)       INLKA 1495)       Codast Prante Redox (A16) (LRK A, E, K)         Black Histic (A3)	Inside Epipedon (A2)       Inside Epipedon (A2)       Inside Epipedon (A2)       Inside Epipedon (A2)         Black Histic (A3)	HISTOSO	I (AI)			ow Suna	ace (58) (	LKK K,		CM NUCK (AT	J) ( <b>LKK K, L,</b> odov (A16) (L	NILKA 149B)
Black Histo (KS)	Black Hidde (KG)	Black H	listic (A3)		Thin Dark Surf	") "aco (90			1/0B) 5		at or Peat (S3	(IPPKIP)
Inglified Layer (Af)       Inglified Layer (Af)       Inglified Layer (Af)       Inglified Layer (Af)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 148)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       If observed):       Type:         Type:	Inglifed Layers (A5)       Inglifed Layers (A5)       Iony Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F2)       Iron-Manganese Masses (F12) (LRR K, L, R         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 1491         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444, 145, 1491         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Bark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Black T	en Sulfide (Δ4)		High Chroma 9	Sands (S		RKI)	<b></b>	olivialue Belov	ALUI FEAL (55 M Surface (S8	
	Event (in (inches):     Depted Dark Surface (S7)     Event (S5)     Event	Stratifie	d Lavers (A5)		Loamy Mucky	Mineral	(F1) (LR	RKI)	''	hin Dark Surfa	ice (S9) (I RR	
		Deplete	ed Below Dark Surface	(A11)	Loamy Gleved	Matrix	(F2)	i (i	'	on-Manganesi	e Masses (F1)	2) (LRR K. L. R)
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Image: Complete the second seco		Thick D	ark Surface (A12)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Depleted Matr	ix (E3)	(1 2)		P	iedmont Flood	lolain Soils (F	19) ( <b>MI RA 149</b>
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       Hydric Soil Present?       Yes         Remarks:       No       X	Sandy I	Mucky Mineral (S1)		Redox Dark S	urface (I	F6)		 M	lesic Spodic (1	FA6) ( <b>MLRA 1</b>	44A. 145. 149B
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Bark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       Depth (inches):         Depth (inches):       Yes	Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       Hydric Soil Present?       Yes         Remarks:       No       X	Sandy (	Gleved Matrix (S4)		Depleted Dark	Surface	e (F7)		R	ed Parent Mat	terial (F21)	,,
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:	Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:	Sandy F	Redox (S5)		Redox Depres	sions (F	8)		—	ery Shallow D	ark Surface (F	-22)
Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Yes No X	Dark Surface (S7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:	Stripped	d Matrix (S6)		 Marl (F10) (LR	R K, L)	,			ther (Explain i	n Remarks)	,
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>Restrictive Layer (if observed):</b> Type:         Depth (inches):             Hydric Soil Present?       Yes No _X	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:	Dark Su	urface (S7)			. ,					,	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Hydric Soil Present?         Yes	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:											
Restrictive Layer (if observed):	Restrictive Layer (if observed):	³ Indicators of	of hydrophytic vegetat	ion and w	etland hydrology m	ust be p	resent, u	nless dist	urbed or proble	matic.		
Type:	Type:	Restrictive	Layer (if observed):									
Depth (inches):   Yes     No   X	Depth (inches):         Hydric Soil Present?         Yes         No         X           Remarks:	Type:										
	Remarks:	Depth (	inches):						Hvdric Soil	Present?	Yes	No X
Devendent	Remarks:	Development	,						,			







## ATTACHMENT 2 NWI & NYSDEC WETLAND & STREAM MAPS