

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County:	Selkirk/Albany	Sampling Date: 6.13.22
Applicant/Owner: TDI		State: N	IY Sampling Point: PA-3 Upl
Investigator(s): John Greaves & Chris Einstein	Sec	ion, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave	, convex, none): <u>Convex</u>	Slope %:20
Subregion (LRR or MLRA): LRR R	Lat: <u>42.511824</u>	Long: <u>-73.813718</u>	Datum: NAD83
Soil Map Unit Name: HuB, HuC, HuD, HuE - H	udson silt loam	NWI classificat	ion:
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Ye	s <u>X</u> No(Ifr	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	gysignificantly disturbed? A	e "Normal Circumstances" p	present? Yes X No
Are Vegetation, Soil, or Hydrolog	gy naturally problematic? (I	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sampling poin	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: Upl adjacent to Wetland PA near flag PA-3
Remarks: (Explain alternative procedu Deciduous forest.	ires here or in a	separate report.)	

Wetland Hydrology Indicators:					Secondary Indicators (minin	num 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)		Aquatio	c Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)		Marl De	eposits (B15)		Dry-Season Water Tabl	le (C2)	
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	)	Oxidize	ed Rhizospheres on Living R	oots (C3)	Saturation Visible on A	erial Imagery (C9)	
Drift Deposits (B3)		Presen	nce of Reduced Iron (C4)		Stunted or Stressed Pla	ants (D1)	
Algal Mat or Crust (B4)		Recent	t Iron Reduction in Tilled Soi	ls (C6)	Geomorphic Position (E	02)	
Iron Deposits (B5)		 Thin M	luck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on A	erial Imagery (B7	7) Other (	(Explain in Remarks)		Microtopographic Relief	f (D4)	
Sparsely Vegetated Cor	ncave Surface (E	38)			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)							
	ream daude mo	nitoring well	aerial photos, previous insp	ections) if	available <sup>.</sup>		
Describe Recorded Data (st	ican gauge, ne	sintoring wen,		5600107, 11			
Describe Recorded Data (st							
Describe Recorded Data (st Remarks:							
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Describe Recorded Data (st Remarks:							

Sampling Point: PA-3 Upl

· · · · · · · · · · · · · · · · · · ·	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus rubra	50	Yes	FACU	Number of Dominant Species
2. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW, or FAC:3 (A)
3. Acer platanoides	5	No	UPL	Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species0 x 1 =0
1. Rhamnus cathartica	40	Yes	FAC	FACW species $20 \times 2 = 40$
2. Corylus americana	20	Yes	FACU	FAC species 110 x 3 = 330
3. Fraxinus pennsylvanica	10	No	FACW	FACU species 85 x 4 = 340
4. Acer platanoides	5	No	UPL	UPL species 20 x 5 = 100
5.				Column Totals: 235 (A) 810 (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 )				2 - Dominance Test is >50%
1 Toxicodondron radicans	50	Voc	FAC	$\frac{2}{3} \operatorname{Provalence Index is \leq 30^{1}}$
				4. Morphological Adaptations <sup>1</sup> (Provide supporting
2. Equiserum arvense				data in Remarks or on a separate sheet)
			FACU	
4. Rosa multifiora	5	NO	FACU	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	10	Yes	UPL	height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes No X
	10	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1
	,			

Profile Desc	ription: (Describe	to the de	pth needed to doc	ument t	he indica	ator or co	onfirm the absence of in	ndicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-4	10YR 3/1	100					Loamy/Clayey		
4-16	10YR 4/2	100					Loamy/Clayey		
					·				
					·				
					·				
					·				
							<sup>2</sup> l continu	Doro Lining M-M	-tuis.
Hydric Soil	Indicators:	ietion, Riv		vio-ivias	skeu Sand	i Grains.	Indicators for	Pore Lining, M-Ma	in Soils <sup>3</sup> .
Histosol	(A1)		Polvvalue Belo	ow Surfa	ace (S8) (	LRR R.	2 cm Muck	(A10) (LRR K. L.	MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B	5)		,	Coast Prai	rie Redox (A16) (L	RR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1	( <b>49B</b> ) 5 cm Muck	y Peat or Peat (S3	) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	S11) ( <b>LRI</b>	R K, L)	Polyvalue I	Below Surface (S8	) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark \$	Surface (S9) ( <b>LRR</b>	<b>K</b> , L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Manga	anese Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Depleted Matri	ix (F3)	-0)		Piedmont F	Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark St	urface (F	-6) > (E7)		Mesic Spor	dic (TA6) ( <b>MLRA 1</b> t Matarial (E21)	44A, 145, 149B)
Sandy B	edox (S5)		Depieted Dark	sions (F	= ( <i>F 7 )</i> :8)		Keu Paleli Verv Shallo	w Dark Surface (F	-22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K. L)	0)		Other (Exp	lain in Remarks)	22)
Dark Sur	face (S7)			, _,					
	( ),								
<sup>3</sup> Indicators of	f hydrophytic vegetat	tion and v	/etland hydrology mi	ust be p	resent, u	nless dist	urbed or problematic.		
Restrictive I	_ayer (if observed):								
Type: -									
Depth (ir	nches):						Hydric Soil Present?	Yes	NoX
Remarks:									
This data for	m is revised from No	orthcentra	and Northeast Reg	ional Su	upplemen	t Version	2.0 to include the NRCS	Field Indicators of	f Hydric Soils,
Version 7.0,	2015 Errata. (http://v	ww.nrcs.	usda.gov/Internet/F	SE_DO	CUMENT	S/nrcs14	2p2_051293.docx)		



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and See ERDC/EL TR-12-1; the proponent agency is CE	d Northeast Region ECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: <u>CHPE - Segment 10 - Package 6</u> Applicant/Owner: <u>TDI</u> Investigator(s): <u>N. Frazer &amp; C.Scrivner</u>	City/County: <u>Coeymans /</u>	/ <u>Albany</u> Sampling Date: <u>05/23/23</u> State: <u>NY</u> Sampling Point: <u>Wet CP6-B</u> nip, Range:
Landform (hillside, terrace, etc.):       Depression       Local m         Subregion (LRR or MLRA):       LRR R       Lat:       42.510326° N         Soil Map Unit Name:       Wa: Wakeland silt loam	elief (concave, convex, no Long: <u>-73</u>	Sone):         Concave         Slope %:         5           3.815307° W         Datum:         WGS84           NWL classification:         PEQ1
Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation, Soil, or Hydrologysignificantly disturb Are Vegetation, Soil, or Hydrologynaturally problema SUMMARY OF FINDINGS – Attach site map showing sam	Yes <u>x</u> bed? Are "Normal C ntic? (If needed, ex appling point location	No (If no, explain in Remarks.) Circumstances" present? Yes No plain any answers in Remarks.) ns, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       X       No         Hydric Soil Present?       Yes       X       No         Wetland Hydrology Present?       Yes       X       No	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes X No d Site ID: Near flag CP6-B-4
Remarks: (Explain alternative procedures here or in a separate report.) Red maple hardwood swamp.		
HYDROLOGY		
Wetland Hydrology Indicators:           Primary Indicators (minimum of one is required; check all that apply)	<u>Sec</u>	condary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1)       X       Water-Stained Leaves (E         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C         Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Irco         Algal Mat or Crust (B4)       Recent Iron Reduction in         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)       Eicld Observations:	39)	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	Wetland Hy wious inspections), if avail	ydrology Present? Yes X No
Pemerke:		
Remarks.		

Sampling Point: Wet CP6-B

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	30	Yes	FACW	Number of Dominant Species
2. Ulmus americana	25	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)
3.         Acer rubrum           4.	20	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Cornus amomum	20	Yes	FACW	FACW species 165 x 2 = 330
2. Ulmus americana	20	Yes	FACW	FAC species 35 x 3 = 105
3. Fraxinus pennsylvanica	10	No	FACW	FACU species 15 x 4 = 60
4. Rhamnus cathartica	10	No	FAC	UPL species 0 x 5 = 0
5. Rosa multiflora	5	No	FACU	Column Totals: 215 (A) 495 (B)
6.				Prevalence Index = B/A = 2.30
7.				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Ribes americanum	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Impatiens capensis	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phragmites australis	10	No	FACW	data in Remarks or on a separate sheet)
4. Parthenocissus quinquefolia	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Acer rubrum	5	No	FAC	
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				Herb – All herbaceous (non-woody) plants, regardless
	75	=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				I hadrow had to
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Descr	ription: (Describe t	o the de	pth needed to docu	iment th	e indica	tor or co	onfirm the absence of	indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 4/2	70	10YR 5/8	30	С	М	Mucky Loam/Clay	Prominent redox concentrations
4-15	10YR 3/1	75	10YR 4/6	25	С	M	Mucky Loam/Clay	Prominent redox concentrations
15-18	10YR 2/1	90	7.5YR 3/4	10	С	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations
						_		
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RN	Reduced Matrix, M	IS=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	
Hydric Soil Ir	ndicators:						Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)		MLRA 149B	3)			5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	149B) Polyvalu	ie Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (S	511) ( <b>LR</b> F	R K, L)	 Thin Da	rk Surface (S9) (LRR K, L)
 Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral (	(F1) ( <b>LR</b>	R K. L)	Iron-Mai	nganese Masses (F12) (LRR K. L. R)
Thick Day	rk Surface (A12)	()	Loamy Gleved	Matrix (	F2)	,,	Piedmor	nt Eloodplain Soils (E19) (MLRA 149B)
Mesic Sp	dic (A17)		X Depleted Matri	iv (F3)	_/		Red Par	ent Material (E21) (outside MI RA 145)
	144A 145 140P)		X Bodov Dark Si	urfaco (E	(G)		Voru Sh	allow Dark Surface (E22)
Sondy M	uoku Minorol (S1)		Realeted Dark	Surface	(EZ)		Very Off	
	ucky Ivinteral (ST)				( <i>Г1</i> )			cxpiairi in Remarks)
Sandy G	eyed Matrix (54)		X Redox Depres		5)		31	
Sandy Re	edox (S5)		Mari (F10) (LR	(R K, L)			Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetlar unless	nd hydrology must be present, s disturbed or problematic.
Restrictive L	ayer (if observed):							·
Туре:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks: Remarks:								



Segment 10 - Package 6

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and See ERDC/EL TR-12-1; the proponent agency is Cl	d Northeast Region ECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: <u>CHPE - Segment 10 - Package 6</u> Applicant/Owner: <u>TDI</u> Investigator(s): <u>N. Frazer &amp; C.Scrivner</u>	City/County: <u>Coeymans /</u>	<u>/ Albany</u> Sampling Date: <u>05/23/23</u> State: <u>NY</u> Sampling Point: <u>Upl CP6-B</u> nip, Range:
Landform (hillside, terrace, etc.):       Hillslope       Local r         Subregion (LRR or MLRA):       LRR R       Lat:       42.510550° N	relief (concave, convex, no Long: <u>-73</u>	Sone):         Convex         Slope %:         10           3.815041° W         Datum:         WGS84
Soil Map Unit Name:       Wa: Wakeland silt loam         Are climatic / hydrologic conditions on the site typical for this time of year?         Are Vegetation       , Soil       , or Hydrology         Are Vegetation       , Soil       , or Hydrology       naturally problema	Yes <u>x</u> bed? Are "Normal C atic? (If needed, exp	NWI classification:       NA         No       (If no, explain in Remarks.)         Circumstances" present?       Yes _ x _ No         plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland? If yes, optional Wetlanc	Yes <u>No X</u> d Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Successional northern hardwoods.		
HYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Sec</u>	condary Indicators (minimum of two required) Surface Soil Cracks (B6)
Sufface vvaler (A1)       vvaler-Stanled Leaves (L         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (	(C1)	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)       Oxidized Rhizospheres of         Drift Deposits (B3)       Presence of Reduced Iro         Algal Mat or Crust (B4)       Recent Iron Reduction ir	on Living Roots (C3) on (C4) 1 Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remark         Sparsely Vegetated Concave Surface (B8)	ks)	Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Includes capillary fringe       Ves       Ves       Ves         Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	Wetland Hy evious inspections), if avail	/drology Present? Yes <u>No X</u> lable:
Remarks:		

Sampling Point: Upl CP6-B

Tara Chataire (Distaire 20)	Absolute	Dominant	Indicator	Deminence Test werkeheet
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksneet:
1. <u>Acer saccharum</u>	60	res	FACU	Number of Dominant Species
2. Fagus granditolia	10	<u>N0</u>	FACU	That Are OBL, FACW, of FAC:(A)
3. Carya ovata           4.	10	<u>No</u>	FACU	Total Number of Dominant         Species Across All Strata:         5         (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 40.0% (A/B)
7		. <u> </u>		Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1. Ostrya virginiana	30	Yes	FACU	FACW species 15 x 2 = 30
2. Fraxinus pennsylvanica	5	No	FACW	FAC species 65 x 3 = 195
3.				FACU species 145 x 4 = 580
4.				UPL species 0 x 5 = 0
5.				Column Totals: 225 (A) 805 (B)
6.				Prevalence Index = $B/A = 3.58$
7.	1	·		Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
1 Toxicodendron radicans	30	Yes	FAC	3 - Prevalence Index is <3.01
	25	Ves	EACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	10	<u> </u>		data in Remarks or on a separate sheet)
Lysiniachia huminulana	10	No		Problematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
4. Partnenocissus duniqueiona		N		
5.     Theiypteris noveboracensis       6.	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8		. <u> </u>		<b>Tree</b> – 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				Herb – All herbaceous (non-woody) plants, regardless
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	30	Yes	FAC	height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
	30	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-		
······	,			

Profile Descr	iption: (Describe t	o the dep	th needed to docu	ment th	e indica	or or co	nfirm the absence of in	ndicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-4	10YR 2/1	100					Loamy/Clayey		
4-13	10YR 3/3	100					Loamy/Clayey		
13-16	10YR 3/4	100					Loamy/Clayey		
		<u> </u>							
		· ·							
							·		
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Ma	trix.
Hydric Soil Ir	ndicators:			07)			Indicators for	r Problematic Hydri	c Soils <sup>3</sup> :
Histosol (	A1) Radon (A2)		Dark Surface (	S7) w Surfa	oo (S0) (I	<b>DD D</b>	2 cm Muc	xk (A10) ( <b>LRR K, L, I</b> Aviria Baday (A16) ( <b>I F</b>	
Black His	tic (A3)	•	Ροιγναίμε Βείο  ΜΙ RΔ 149R	w Suna )	ce (58) (I	.кк к,	5 cm Muc	wy Peat or Peat (S3)	
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 S	Sands (S	611) ( <b>LRF</b>	K, L)	Thin Dark	Surface (S9) (LRR	(, K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b> F	R K, L)	Iron-Mang	ganese Masses (F12	) (LRR K, L, R)
Thick Dar	k Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont	Floodplain Soils (F1	9) ( <b>MLRA 149B</b> )
Mesic Sp	odic (A17)		Depleted Matri	x (F3)			Red Pare	nt Material (F21) <b>(ou</b>	itside MLRA 145)
(MLRA	A 144A, 145, 149B)		Redox Dark Su	urface (F	6)		Very Shal	llow Dark Surface (F	22)
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	plain in Remarks)	
Sandy Gl	eyed Matrix (S4)		Redox Depres	sions (F	8)		3		
Sandy Re	edox (S5) Matrix (S6)		Marl (F10) (LR	KK,L)	21) <b>(MI G</b>	A 145)	Indicator	s of hydrophytic vege	etation and
				ateriai (i		A 143)	unless	disturbed or problem	atic.
Restrictive L	ayer (if observed):							· · · · · · · · · · · · · · · · · · ·	
Туре:									
Depth (in	ches):						Hydric Soil Present	? Yes	<u>No X</u>
Remarks:									
Remarks:									



Upland CP6-B near flag CP6-B-4 - View facing north/northeast



Upland CP6-B near flag CP6-B-4 - Soils

Segment 10

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and See ERDC/EL TR-12-1; the proponent agency is CE	d Northeast Region ECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: <u>CHPE - Segment 10 - Package 6</u> Applicant/Owner: <u>TDI</u>	City/County: <u>Coeymans /</u>	Albany Sampling Date: <u>05/23/23</u> State: <u>NY</u> Sampling Point: <u>Wet CP6-A</u>
Landform (hillside, terrace, etc.): Depression Local r	elief (concave, convex, no	one): Concave Slope %: 4
Subregion (LRR or MLRA): LRR R Lat: 42.509032° N	Long: -73.	.815278° W Datum: WGS84
Soil Map Unit Name: Uh: Udorthents, clayey-Urban land complex		NWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal C	ircumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problema	tic? (If needed, exp	plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site man showing sam	nling point location	ns transects important features etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	
Hydric Soil Present? Yes X No	within a Wetland?	Yes <u>X</u> No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland	Site ID: Near flag CP6-A-3
Remarks: (Explain alternative procedures here or in a separate report.)		
Shrub swamp.		
HYDROLOGY		
Wetland Hydrology Indicators:	<u>Sec</u>	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (E	39) <u>X</u>	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 ( Ouidined December 20	C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)Oxidized Rhizospheres c	on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Tilled Soils (C6) $X$	Geomorphic Position (D2)
Iron Deposits (B5)		Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	(s)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	<u>X</u>	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches):	3	
Saturation Present? Yes X No Depth (inches):	0 Wetland Hy	drology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if availa	able:
Remarks:		

Sampling Point: Wet CP6-A

· · · · · ·	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. Rhamnus cathartica	5	Yes	FAC	That Are OBL, FACW, or FAC: (A)
3.		·		Total Number of Dominant
4		·		Species Across All Strata: 7 (B)
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species         5         x 1 =         5
1. Cornus amomum	35	Yes	FACW	FACW species 104 x 2 = 208
2. Fraxinus pennsylvanica	15	Yes	FACW	FAC species 55 x 3 = 165
3. Cornus racemosa	10	No	FAC	FACU species 0 x 4 = 0
4. Ulmus americana	10	No	FACW	UPL species 0 x 5 = 0
5. Rhamnus cathartica	10	No	FAC	Column Totals: 164 (A) 378 (B)
6.				Prevalence Index = B/A = 2.30
7.				Hydrophytic Vegetation Indicators:
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Solidago gigantea	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Juncus tenuis	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Fraxinus pennsylvanica	10	No	FACW	data in Remarks or on a separate sheet)
4. Equisetum arvense	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lythrum salicaria	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6. Impatiens capensis	2	No	FACW	present, unless disturbed or problematic.
7. Cornus amomum	2	No	FACW	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				Herb – All herbaceous (non-woody) plants, regardless
	64	=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 riparia	5	Yes	FAC	height.
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

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 <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 2/1	95	10YR 4/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
5-12	10YR 4/2	75	10YR 5/1	20	D	М	Loamy/Clayey	
			10YR 4/4	5	С	М		Distinct redox concentrations
12-17	10YR 5/3	100					Loamy/Clayey	
<sup>1</sup> Type: C=Cc	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	e (S8) ( <b>L</b>	.RR R,	Coast P	rairie Redox (A16) (LRR K, L, R)
Black His	stic (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) Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	Lavers (A5)		High Chroma S	Sands (S	11) (LRF	R K. L)	Thin Da	rk Surface (S9) (LRR K. L)
X Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral (	F1) (I RF	RК.I)	Iron-Mar	nganese Masses (F12) (I RR K I R)
Thick Da	rk Surface (A12)	(,)	Loamy Gleved	Matrix (F	= 2)	, _,	Piedmor	t Eloodolain Soils (E19) ( <b>MI RA 149B</b> )
Mosic Sr	adia (A17)		X Doplotod Matri		2)		Pod Par	ant Material (E21) (outside MI BA 145)
			X Bodox Dork Su	∧ (1-3) urfo.oo. (Ei	6)			allow Dark Surface (E22)
	A 144A, 145, 149D)		X Redox Dark Surface (F6) Very Shallow Dark Surface (F22					
Sandy M	UCKY Mineral (S1)		Depleted Dark Surface (F7) Other (Explain in Remarks)					xplain in Remarks)
Sandy G	leyed Matrix (S4)		Redox Depress	SIONS (FE	3)		3	
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F2	21) (MLR	(A 145)	wetlar	nd hydrology must be present, s disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								
Remarks:								



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and See ERDC/EL TR-12-1; the proponent agency is Cl	d Northeast Region ECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)							
Project/Site: <u>CHPE - Segment 10 - Package 6</u> Applicant/Owner: <u>TDI</u> State: <u>NY</u> Sampling Date: <u>05/23/23</u> <u>UPL CP6-A-3</u>									
Investigator(s): N. Frazer & C.Scrivner	Investigator(s): N. Frazer & C.Scrivner Section, Township, Range:								
Landform (hillside, terrace, etc.): Flat Local	elief (concave, convex, no	one): None Slope %:0							
Subregion (LRR or MLRA): LRR R Lat: 42.509197° N	Long: -73	.815409° W Datum: WGS84							
Soil Map Unit Name: RhA: Rhinebeck silty clay loam, 0 to 3 percent slopes	;	NWI classification:							
Are climatic / hydrologic conditions on the site typical for this time of year?	Ves x	No. (If no. explain in Remarks.)							
Are Vegetation Soil or Hydrology significantly distur	hed? Are "Normal C	Yircumstances" present? Yes x No							
Are Vegetation, or injuringy or injuring a star									
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (ir needed, exp	plain any answers in Kemarks.)							
SUMMARY OF FINDINGS – Attach site map showing san	npling point location	ns, transects, important features, etc.							
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       No       X	Is the Sampled Area within a Wetland?	Yes No _X							
Wetland Hydrology Present? Yes No X	If yes, optional Wetland	d Site ID:							
Remarks: (Explain alternative procedures here or in a separate report.) Successional northern hardwoods.									
HYDROLOGY									
Wetland Hydrology Indicators:	Sec	condary 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	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 Sultide Odor (	C1)	Crayfish Burrows (C8)							
Sealment Deposits (B2)Oxialzed Rnizospheres (	on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4)	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 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 Hydrology Present?     Yes     No									
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if avail	able:							
Remarks:									

Sampling Point: UPL CP6-A-3

	Absolute	Dominant	Indicator	Deminence Test werkehest			
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test Worksneet:			
1. Acer saccharum	40	Yes	FACU	Number of Dominant Species			
2. Acer negundo	20	Yes	FAC	That Are OBL, FACW, or FAC:3(A)			
3. Carya ovata	20	Yes	FACU	Total Number of Dominant			
4. Ostrya virginiana	10	No	FACU	Species Across All Strata: 7 (B)			
5		·		Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 42.9% (A/B)			
7		. <u> </u>		Prevalence Index worksheet:			
	90	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0			
1. Rhamnus cathartica	25	Yes	FAC	FACW species <u>15</u> x 2 = <u>30</u>			
2. Lonicera morrowii	15	Yes	FACU	FAC species 87 x 3 = 261			
3. Fraxinus pennsylvanica	10	No	FACW	FACU species 145 x 4 = 580			
4. Cornus florida	10	No	FACU	UPL species $0 \times 5 = 0$			
5. Hamamelis virginiana	10	No	FACU	Column Totals: 247 (A) 871 (B)			
6.				$\frac{1}{2} = \frac{1}{2} = \frac{1}$			
7		·		Hydrophytic Vegetation Indicators:			
	70	-Total Covor		1 Panid Test for Hydrophytic Vegetation			
Horb Stratum (Diataiza: 5')	70			Pominonee Test in SON			
Trainedenten line (	05	N	540	2 - Dominiance rest is \$>30.6			
1. Ioxicodendron radicans	35	Yes	FAC	$3 - \text{Prevalence index is } \le 3.0$			
2. I halictrum thalictroides	20	Yes	FACU	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)			
3. Geranium maculatum	10	No	FACU				
4. Galium mollugo	5	No	FACU	Problematic Hydrophytic Vegetation' (Explain)			
5. Cornus racemosa	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be			
6. Acer saccharum	5	No	FACU	present, unless disturbed or problematic.			
7. Solidago gigantea	5	No	FACW	Definitions of Vegetation Strata:			
8. Acer rubrum	2	No	FAC	<b>Tree</b> – 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.							
	87	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')		•					
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
2							
3				Hydrophytic			
A.		·		Vegetation Present? Ves No Y			
4		Tatal Cause	·				
		= I otal Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

#### SOIL

Profile Desc	ription: (Describe t	o the dep	oth needed to docu	ment th	ne indica	tor or co	nfirm the absence of	indicators.)	
Depth	Matrix		Redo	x Featur	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/2	100					Loamy/Clayey		
7-16	10YR 4/4	100					Loamv/Clavev		
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators for	or Problematic Hydric S	oils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LRR K, L, ML</b> F	<b>₹A 149B</b> )
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,	Coast Pi	rairie Redox (A16) (LRR I	K, L, R)
Black His	stic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat or Peat (S3) (LF	R K, L, R)
Hydroger	h Sulfide (A4)		I nin Dark Surfa	ace (S9) Sende (S		, MLRA 1	49B) Polyvalu	ie Below Sufface (S8) (LR	( <b>R K, L</b> )
Stratilied	Layers (A5) Below Dark Surface	(A11)	High Chroma S	Mineral (	(E1) (LRF	<b>K K, L)</b>	Inin Dai	rk Surface (S9) (LRR N, L	.) DDKID)
Thick Da	rk Surface (A12)		Loamy Gleved	Matrix (	(1 1) ( <b>EIXI</b> F2)	<b>、 κ, Ε</b> )	Non-Mai	nganese Masses (F12) (L	MI RA 149B)
Mesic Sp	odic (A17)		Depleted Matrix	x (F3)	)		Red Par	rent Material (F21) <b>(outsic</b>	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	Explain in Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F8	8)				
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			<sup>3</sup> Indicato	ors of hydrophytic vegetati	ion and
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) <b>(MLF</b>	RA 145)	wetlar	nd hydrology must be pres	sent,
							unless	s disturbed or problematic	
Restrictive L	ayer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil Preser	nt? Yes	No X
Remarks:									
Remarks:									



Upland CP6-A near flag CP6-A-3 - Soils

Segment 10

# 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: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-I Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA):         LRR R         Lat:         42.508706	Long: <u>-73.816279</u> Datum: <u>NAD83</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slop	esNWI classification: PSS1
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 distu	rbed? 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 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:near flag P6-I-8
Remarks: (Explain alternative procedure Shrub swamp.	s 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)	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 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): Wetland	d Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
Remarks:				
1				

Sampling Point: P6-I Wet

Trop Stratum (Plot size: 30')	Absolute % Covor	Dominant	Indicator Status	Dominance Test worksheet:				
1 Deputus deltaides	<u></u>	Voo						
	15	res	FAC	Number of Dominant Species				
2				That Are OBL, FACW, or FAC: (A)				
3				Total Number of Dominant				
4				Species Across All Strata:4 (B)				
5				Percent of Dominant Species				
6				That Are OBL, FACW, or FAC:(A/B)				
7				Prevalence Index worksheet:				
	15	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =				
1. Cornus amomum	45	Yes	FACW	FACW species 140 x 2 = 280				
2. Rhamnus cathartica	10	No	FAC	FAC species x 3 = 75				
3. Rosa multiflora	5	No	FACU	FACU species <u>5</u> x 4 = <u>20</u>				
4				UPL species x 5 =				
5				Column Totals: 170 (A) 375 (B)				
6.				Prevalence Index = B/A = 2.21				
7.				Hydrophytic Vegetation Indicators:				
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%				
1. Phragmites australis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2. Symphyotrichum novi-belaii	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin				
3 Solidado digantea	10	No	FACW	data in Remarks or on a separate sheet)				
4 Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
	5	No						
			FACIN	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
6				be present, unless disturbed or problematic.				
/		·		Definitions of Vegetation Strata:				
8				Tree – Woody plants 3 in. (7.6 cm) or more in				
9				diameter at breast height (DBH), regardless of height.				
10		·		Sapling/shrub – Woody plants less than 3 in. DBH				
11				and greater than or equal to 3.28 ft (1 m) tall.				
12				Herb – All herbaceous (non-woody) plants, regardless				
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )				<b>Woody vines</b> – 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 sepa	rate sheet.)							

Profile Desc	ription: (Describe	to the de	pth needed to doci	ument t	he indica	ator or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/1	100					Loamy/Clayey	
6-15	10YR 4/1	80	10YR 4/6	20	<u> </u>		Loamy/Clayey	Prominent redox concentrations
					·			
					·			
					·			
					·			
					. <u> </u>			
<sup>1</sup> Type: C=Co	oncentration. D=Dep	etion. RM		/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	
Hydric Soil	ndicators:	,	,				Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		Polyvalue Belc	w Surfa	ice (S8) (	LRR R,	Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA <sup>·</sup>	I <b>49B</b> ) Polyvalu	ie Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)	(	High Chroma S	Sands (S	S11) ( <b>LRI</b>	R K, L)	Thin Dar	rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Motrix	(F1) ( <b>LR</b> ) (F2)	R K, L)	Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	nodic $(\Delta 17)$		X Depleted Matri	watrix ( v (F3)	(FZ)		Pleation Red Par	rent Material (E21) (outside MI RA 1496)
(MLR	A 144A, 145, 149B)		Redox Dark Si	rface (F	-6)		Verv Sh	allow Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	∍(F7)		Other (E	Explain in Remarks)
Sandy G	Bleyed Matrix (S4)		Redox Depres	sions (F	8)			
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetlar	nd hydrology must be present,
							unless	s disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (ir	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	City/County: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-I Upl
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): <u>Convex</u> Slope %: <u>45</u>
Subregion (LRR or MLRA):         LRR R         Lat:         42.508646	Long: <u>-73.816277</u> Datum: <u>NAD83</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slop	esNWI classification:
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 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 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: near P6-I-8
Remarks: (Explain alternative procedure: Successional old field.	s 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)	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 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 (B8)	_		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes N	o X Depth (inches):					
Water Table Present? Yes N	o X Depth (inches):					
Saturation Present? Yes N	o X Depth (inches):	Wetlan	d Hydrology Present? Yes No X			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspe	ctions), if	available:			
Remarks:						

Sampling Point: P6-I Upl

	Absolute	Dominant	Indicator	Densioner Technologie
<u>Iree Stratum</u> (Plot size: <u>30'</u> )	% Cover	Species?		Dominance Test worksheet:
1. Populus deltoides	15	Yes	FAC	Number of Dominant Species
2		·		That Are OBL, FACW, or FAC:(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: 28.6% (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. <u>Rhus typhina</u>	10	Yes	UPL	FACW species 0 x 2 = 0
2. Lonicera morrowii	10	Yes	FACU	FAC species25 x 3 =75
3. Populus deltoides	10	Yes	FAC	FACU species <u>110</u> x 4 = <u>440</u>
4. Elaeagnus angustifolia	10	Yes	FACU	UPL species10 x 5 =50
5				Column Totals: 145 (A) 565 (B)
6				Prevalence Index = B/A =3.90
7				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Poa pratensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Symphyotrichum ericoides	15	No	FACU	data in Remarks or on a separate sheet)
4. Lonicera morrowii	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				Indicators of hydric soil and watland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				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.				
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				
3				Hydrophytic
а. Д		·		Vegetation Present? Ves No X
·		-Total Cover		
Remarks. (include proto numbers here of on a sepa	rate sheet.)			

Depth       Matrix       F         (inches)       Color (moist)       %       Color (moist)         0-7       10YR 3/2       100         7-16       10YR 3/3       100         7-16       10YR 3/3       100	Redox Featu         olor (moist)       %         olor (moist)       %         duced Matrix, MS=Ma         duced Matrix, MS=Ma         Dark Surface (S7)         Polyvalue Below Surfa         MLRA 149B)         Thin Dark Surface (S7)         Polyvalue Below Surfa         Loamy Mucky Minera         Loamy Cleyed Matrix         Depleted Matrix (F3)         Redox Dark Surface (S         Medox Depressions (Marl (F10) (LRR K, L	matures           %         Type1	Loc <sup>2</sup>	Texture         Loamy/Clayey         Loamy/Clayey         Loamy/Clayey	PL=Pore Lining, M=	marks
(incres)       Color (indist)       75       Color (indist)         0-7       10YR 3/2       100         7-16       10YR 3/3       100	Dork Surface (S7) Polyvalue Below Surfa MLRA 149B) Thin Dark Surface (S7) High Chroma Sands of Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface of Depleted Dark Surface of Redox Depressions ( Marl (F10) (LRR K, L	Masked Sand           Masked Sand           Masked Sand           Surface (S8) (I           (S9) (LRR R           ds (S11) (LRI           trix (F2)           3)           ce (F6)           face (F7)	  	Loamy/Clayey Loamy/Clayey	L=Pore Lining, M=	
0-7       10YR 3/2       100         7-16       10YR 3/3       100         7-16       10YR 3/3       100	duced Matrix, MS=Ma duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (S Depleted Dark Surface (S Depleted Dark Surface (S) Redox Depressions (Marl (F10) ( <b>LRR K, L</b>		  	Loamy/Clayey Loamy/Clayey	L=Pore Lining, M=	
7-16       10YR 3/3       100	duced Matrix, MS=Ma duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands du Loamy Mucky Minera Loamy Mucky Minera Loamy Mucky Minera Depleted Matrix (F3) Redox Dark Surface of Depleted Dark Surface of Depleted Dark Surface of Redox Depressions (Marl (F10) ( <b>LRR K, L</b>		  	Loamy/Clayey	L=Pore Lining, M=	
Image:	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands ( Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (S Depleted Dark Surface (S Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sand Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) 3) ce (F6) face (F7)	  	2Location: P Indicators fo 2 cm Mu 2 cm Mu Coast Pr	L=Pore Lining, M=	
Image:	Juced Matrix, MS=Ma Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>		   	<sup>2</sup> Location: P Indicators fo 2 cm Mu 2 cm Mu 2 cm Mu	L=Pore Lining, M=	
	Auced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands of Loamy Mucky Minera Loamy Mucky Minera Loamy Mucky Minera Comy Mucky Minera Depleted Dark Surface of Depleted Dark Surface of Depleted Dark Surface of Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sance Masked Sance (S9) (LRR R (S9) (LRR R ds (S11) (LRI trix (F2) (3) ce (F6) face (F7)	  	2Location: P Indicators fo 2 cm Mu 2 cm Mu 2 cm Mu	L=Pore Lining, M=	
Image:	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands ( Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (S Depleted Dark Surface (S Redox Depressions (Marl (F10) ( <b>LRR K, L</b>	Masked Sance Masked Sance (S9) (LRR R ds (S11) (LRF eral (F1) (LRF trix (F2) (3) ce (F6) face (F7)	   	2Location: P Indicators fo 2 cm Mu 2 cm Mu 2 cm Mu	L=Pore Lining, M=	
Image:	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Gurface (S8) (I           (S9) (LRR R           ds (S11) (LRI           eral (F1) (LRI           trix (F2)           3)           ce (F6)           face (E7)	  	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M=	
Image:	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>		  	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M=	-Matrix.
Image:	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands d Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface d Depleted Dark Surface d Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sand Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (E7)	  	<sup>2</sup> Location: P Indicators fo 2 cm Mu 2 cm Mu Coast Pr	L=Pore Lining, M=	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:         Histosol (A1)       Dark Surfa         Histic Epipedon (A2)       Polyvalue         Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chroo         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Gle         Mesic Spodic (A17)       Depleted         Gandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parent	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands ( Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface ( Depleted Dark Surface ( Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sand Gurface (S8) (I (S9) (LRR R ds (S11) (LRF eral (F1) (LRF trix (F2) (3) ce (F6) face (F7)	   nd Grains. (LRR R, (LRR R, (LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M=	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:         Histosol (A1)       Dark Surfa         Polyvalue         Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Gle         Mesic Spodic (A17)       Depleted I         Sandy Mucky Mineral (S1)       Depleted I         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parent	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sand Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (E7)	  nd Grains. (LRR R, (LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M= or Problematic Hy	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sanc Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (E7)	  nd Grains. (LRR R, (LRR R, R, MLRA 149 RR K, L) RR K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M= or Problematic Hy	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:	duced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sanc Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (F7)	  nd Grains. (LRR R, (LRR R, R, MLRA 149 RR K, L) RR K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu 2 coast Pr 5 cm Mu	L=Pore Lining, M=	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:         Histosol (A1)       Dark Surfa         Histic Epipedon (A2)       Polyvalue         Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chroo         Depleted Below Dark Surface (A11)       Loamy Gle         Mesic Spodic (A17)       Depleted         Maxing Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox Da         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parent	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands ( Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface ( Depleted Dark Surface ( Depleted Dark Surface ( Marl (F10) ( <b>LRR K, L</b>	Masked Sand Gurface (S8) (I (S9) (LRR R ds (S11) (LRF eral (F1) (LRF trix (F2) (3) ce (F6) face (F7)	  nd Grains. (LRR R, (LRR R, (LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M= or Problematic Hy	Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sanc Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (E7)	nd Grains. (LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	L=Pore Lining, M= or Problematic Hy	-Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matt         Hydric Soil Indicators:         Histosol (A1)       Dark Surfac         Histic Epipedon (A2)       Polyvalue         Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Gle         Mesic Spodic (A17)       Depleted I         Sandy Mucky Mineral (S1)       Depleted I         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parent	Juced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sanc Gurface (S8) (I (S9) (LRR R ds (S11) (LRI ds (S11) (LRI trix (F2) (3) ce (F6) face (E7)	nd Grains. (LRR R, R, MLRA 149 RR K, L) RR K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	PL=Pore Lining, M= or Problematic Hy	Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mat         Hydric Soil Indicators:	uced Matrix, MS=Ma Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Masked Sanc Gurface (S8) (I (S9) ( <b>LRR R</b> ds (S11) ( <b>LRF</b> eral (F1) ( <b>LRF</b> trix (F2) (3) ce (F6) face (F7)	nd Grains. (LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	<sup>2</sup> Location: P Indicators fo 2 cm Mu Coast Pr	PL=Pore Lining, M= or Problematic Hy	Matrix.
Hydric Soil Indicators:         Histosol (A1)       Dark Surfa         Histic Epipedon (A2)       Polyvalue         Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chroo         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Gu         Mesic Spodic (A17)       Depleted         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Paren	Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Gurface (S8) (I (S9) (LRR R ds (S11) (LRI eral (F1) (LRI trix (F2) (3) ce (F6) face (F7)	(LRR R, R, MLRA 149 ₹R K, L) ₹R K, L)	Indicators fo 2 cm Mu Coast Pr	or Problematic Hy	
Histosol (A1)       Dark Surfat         Histic Epipedon (A2)       Polyvalue         Black Histic (A3)       MLRA         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Glue         Mesic Spodic (A17)       Depleted I         Sandy Mucky Mineral (S1)       Depleted I         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parente	Dark Surface (S7) Polyvalue Below Surf <b>MLRA 149B</b> ) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Gurface (S8) (I (S9) ( <b>LRR R</b> ds (S11) ( <b>LRf</b> eral (F1) ( <b>LRf</b> trix (F2) (3) ce (F6) face (F7)	(LRR R, R, MLRA 149 रR K, L) रR K, L)	2 cm Mu Coast Pr 5 cm Mu		ydric Soils <sup>3</sup> :
Histic Epipedon (A2)PolyvalueBlack Histic (A3)MLRA 1Hydrogen Sulfide (A4)Thin DarkStratified Layers (A5)High ChroDepleted Below Dark Surface (A11)Loamy MuThick Dark Surface (A12)Loamy GluMesic Spodic (A17)Depleted Deleted Delet	Polyvalue Below Surf MLRA 149B) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) (LRR K, L	Surface (S8) (I (S9) ( <b>LRR R</b> ds (S11) ( <b>LRI</b> eral (F1) ( <b>LRI</b> trix (F2) (3) ce (F6) face (F7)	(LRR R, R, MLRA 149 RR K, L) RR K, L)	Coast Pr	LCK(AIO)(LKKK,	L, MLRA 149B)
Black Histic (A3)       MLRA 1         Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Gle         Mesic Spodic (A17)       Depleted         (MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox De         Stripped Matrix (S6)       Red Parenter	MLRA 149B) Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) (LRR K, L	(S9) ( <b>LRR R</b> ds (S11) ( <b>LRf</b> eral (F1) ( <b>LRf</b> trix (F2) (3) ce (F6) face (F7)	R, MLRA 149 RR K, L) RR K, L)	5 cm Mu	rairie Redox (A16)	(LRR K, L, R)
Hydrogen Sulfide (A4)       Thin Dark         Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Glu         Mesic Spodic (A17)       Depleted I         (MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted I         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parenter	Thin Dark Surface (S High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	(S9) ( <b>LRR R</b> ds (S11) ( <b>LRf</b> eral (F1) ( <b>LRf</b> trix (F2) '3) ce (F6) face (F7)	R, MLRA 149 RR K, L) RR K, L)		icky Peat or Peat (	(S3) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)       High Chro         Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Glu         Mesic Spodic (A17)       Depleted         (MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parenter	High Chroma Sands Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	ds (S11) ( <b>LRI</b> eral (F1) ( <b>LRI</b> trix (F2) 3) ce (F6) face (F7)	RR K, L) RR K, L)	9 <b>B</b> )Polyvalu	e Below Surface (	S8) ( <b>LRR K, L</b> )
Depleted Below Dark Surface (A11)       Loamy Mu         Thick Dark Surface (A12)       Loamy Glu         Mesic Spodic (A17)       Depleted I         (MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted I         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parent	Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	eral (F1) ( <b>LRI</b> trix (F2) 3) ce (F6) face (F7)	RR K, L)	Thin Dar	rk Surface (S9) ( <b>Ll</b>	RR K, L)
	Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	trix (F2) '3) ce (F6) faco (F7)		Iron-Man	nganese Masses (	F12) ( <b>LRR K, L, R</b> )
Mesic Spodic (A17)       Depleted         (MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parente	Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	3) ce (F6) face (F7)		Piedmon	nt Floodplain Soils	(F19) ( <b>MLRA 149B</b> )
(MLRA 144A, 145, 149B)       Redox Da         Sandy Mucky Mineral (S1)       Depleted I         Sandy Gleyed Matrix (S4)       Redox De         Sandy Redox (S5)       Marl (F10)         Stripped Matrix (S6)       Red Parente	Redox Dark Surface ( Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>	Ce (F6) faco (E7)		Red Pare	ent Material (F21)	(outside MLRA 145
Sandy Mucky Mineral (ST)       Depleted in the provide structure of the provide s	Depleted Dark Surfac Redox Depressions ( Marl (F10) ( <b>LRR K, L</b>			Very Sha	allow Dark Surface	e (F22)
Sandy Gleyed Matrix (S4)     Redox De       Sandy Redox (S5)     Marl (F10)       Stripped Matrix (S6)     Red Parent	Marl (F10) ( <b>LRR K, L</b>				xplain in Remarks	)
				<sup>3</sup> Indicato	ore of hydrophytic y	vegetation and
	Red Parent Material (	, ⊏) al (F21) <b>(MI F</b>	RA 145)	i) wetland hydrology must be present,		
		ai (i 2 i) <b>(iiiEi</b>	-10(140)	unless	s disturbed or prob	lematic
Restrictive Laver (if observed):						
Type:						
Depth (inches):				Hydric Soil Preser	nt? Yes	No X
				nyane een rieeer		
					unless Hydric Soil Prese	unless disturbed or prob Hydric Soil Present? Yes



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: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-H Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Loca	al relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA):         LRR R         Lat:         42.508678	Long: <u>-73.815512</u> Datum: <u>NAD83</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slo	pesNWI classification: PSS1
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 x No
Are Vegetation, Soil, or Hydrologynaturally proble	matic? (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:near P6-H-8
Remarks: (Explain alternative procedure Shrub swamp.	es here or in a separate report.)	

, , ,,		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)	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 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 Depth (inches): Wetla	nd Hydrology Present? Yes X No		
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections),	if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks:	nitoring well, aerial photos, previous inspections),	if available:		

Sampling Point: P6-H Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	10	Yes	FACW	
2.				Number of Dominant SpeciesThat Are OBL, FACW, or FAC:5(A)
3.				Total Number of Dominant
4.				Species Across All Strata:5(B)
5				Percent of Dominant Species
6		. <u> </u>		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 x 1 =
1. Cornus amomum	40	Yes	FACW	FACW species 85 x 2 = 170
2. Rhamnus cathartica	30	Yes	FAC	FAC species 40 x 3 =20
3. Fraxinus pennsylvanica	5	No	FACW	FACU species x 4 =60
4				UPL species x 5 =
5				Column Totals: 140 (A) 350 (B)
6.				Prevalence Index = B/A = 2.50
7.				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Cornus amomum	15	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago gigantea	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Geum canadense	10	No	FAC	data in Remarks or on a separate sheet)
4. Geranium maculatum	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lonicera morrowii	5	No	FACU	1
6.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.		·		
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	55	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				<b>Woody vines</b> – 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 sepa	arate sheet.)	-		

Depth	Matrix		Redo	x Featur	es				,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	S
0-3	10YR 4/2	100					Loamy/Clayey			
3-15	10YR 5/2	70	10YR 5/4	30	с	m	Loamy/Clayey	Disti	nct redox con	centrations
·										
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	 I=Reduced Matrix, I	 MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location:	PL=Pore Li	ining, M=Matri	ix.
Hydric Soil	Indicators:						Indicators	for Proble	matic Hydric	Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)			2 cm M	/luck (A10)	(LRR K, L, M	LRA 149B)
Histic E	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	Coast	Prairie Red	ox (A16) ( <b>LRF</b>	R K, L, R)
Black H	istic (A3)		MLRA 149E	<b>B</b> )			5 cm N	/lucky Peat	or Peat (S3) (	LRR K, L, R)
Hydroge	en Sulfide (A4)		Thin Dark Sur	face (S9	) (LRR R	, MLRA	149B)Polyva	lue Below S	Surface (S8) (I	LRR K, L)
Stratifie	d Layers (A5)		High Chroma	Sands (S	611) ( <b>LR</b>	R K, L)	Thin D	ark Surface	e (S9) ( <b>LRR K</b>	, L)
Deplete	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K, L</b> )	Iron-M	anganese N	/lasses (F12)	(LRR K, L, R)
Thick D	ark Surface (A12)		Loamy Gleyed	l Matrix (	F2)		Piedmo	ont Floodpla	ain Soils (F19	) ( <b>MLRA 149B</b>
Mesic S	Spodic (A17)		X Depleted Matr	ix (F3)			Red Pa	arent Materi	ial (F21) <b>(out</b> s	side MLRA 14
(MLF	RA 144A, 145, 149B)		Redox Dark S	urface (F	-6)		Very S	hallow Dark	Surface (F22)	2)
Sandy M	Mucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other(	(Explain in F	Remarks)	
Sandy (	Gleyed Matrix (S4)		X Redox Depres	sions (F	8)					
Sandy F	Redox (S5)		Marl (F10) (LF	RR K, L)			<sup>3</sup> Indica	tors of hydr	ophytic veget	ation and
Stripped	d Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLI</b>	RA 145)	wetla unle:	and hydrolo ss disturbeo	gy must be pr d or problema	esent, tic.
Restrictive	Layer (if observed):								·	
Depth (i	inches):						Hydric Soil Pres	ent?	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: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-H Up
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Loc	cal relief (concave, convex, none): Convex Slope %: 55
Subregion (LRR or MLRA):         LRR R         Lat:         42.508710	Long: <u>-73.815482</u> Datum: <u>NAD83</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent sl	lopesNWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dis	sturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (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         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag 2.
Remarks: (Explain alternative procedure Successional shrubland.	es 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)	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	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): Wet	and Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections)	, if available:
Remarks:		

Sampling Point: P6-H Upl

Trop Stratum (Plat size: 20)	Absolute	Dominant	Indicator	Deminence Test werkeheet		
1 Populus deltoides		Species?		Dominance rest worksneet:		
2 Acer platanoides	15	Ves		Number of Dominant Species		
3						
4.				Total Number of Dominant Species Across All Strata:5(B)		
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)		
7.				Prevalence Index worksheet:		
	30	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0		
1. Acer platanoides	25	Yes	UPL	FACW species $0   x 2 = 0$		
2. Rhus typhina	15	Yes	UPL	FAC species 15 x 3 = 45		
3. Lonicera morrowii	10	No	FACU	FACU species 102 x 4 = 408		
4. Juniperus virginiana	2	No	FACU	UPL species 55 x 5 = 275		
5.				Column Totals: 172 (A) 728 (B)		
6.				Prevalence Index = B/A = 4.23		
7.				Hydrophytic Vegetation Indicators:		
	52	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%		
1. Solidago canadensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Symphyotrichum ericoides	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Lotus corniculatus	10	No	FACU	data in Remarks or on a separate sheet)		
4. Lonicera morrowii	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. <u>Rubus allegheniensis</u>	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				Definitions of Vegetation Strata:		
8				beinitions of vegetation official.		
9.				<b>Tree</b> – 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		
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )				Woody vines – All woody vines greater than 3.28 ft in		
1				neight.		
2				Hydrophytic		
3				Vegetation		
4				Present? Yes <u>No X</u>		
		= I otal Cover				
Remarks: (Include photo numbers here or on a separ	rate sneet.)					

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loa <sup>2</sup> Texture       Remarks         0-10       10YR 3/1       100	emarks ravel	Rema								
(inches)       Color (moist)       %       Type'       Loc*       Texture       Remarks         0-10       10YR 3/1       100       Loamy/Clayey       gravel         10-16       10YR 3/2       100       Loamy/Clayey       gravel         10-16       10YR 3/2       100       Loamy/Clayey       gravel	iravel	Rema		2	es2	Redox Featu	R		Matrix	Depth
0-10       10YR 3/1       100       Loamy/Clayey         10-16       10YR 3/2       100       Loamy/Clayey       gravel         10       10       Indicators       Indicators       Indicators         Histosol (A1)       Polyvalue Below Surface (S7)       2 cm Muck (A10) (LRR K, L, MLF       Coast Prairie Redox (A16) (LRR I         Hydrogen Sulfide (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       5 cm Muck Peat or Peat (S3) (LRR K, L)       S cm Muck Peat or Peat (S3) (LRR K, L)       Inon-Anaganese Masses (F12) (LCR K, L)       Inon-Anaganese Masses (F12) (Other (Explain in Remarks)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)       S indy Gueyed Mat	iravel		Texture	<u> </u>	Type' Loc <sup>2</sup>	oist) %	Color (moist)		Color (moist)	(inches)
10-16       10YR 3/2       100       Loamy/Clayey       gravel         10 </td <td>iravel</td> <td></td> <td>Loamy/Clayey</td> <td>Loa</td> <td></td> <td></td> <td></td> <td>100</td> <td>10YR 3/1</td> <td>0-10</td>	iravel		Loamy/Clayey	Loa				100	10YR 3/1	0-10
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location:       PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric S       Indicators for Problematic Hydric S         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 com Muck (A10) (LRR K, L, MLF         Histic CA3       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         Hydrogen Suffide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (S1)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F12) (Loamy Mucky Mineral (S1)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsist Verge Sandy Mucky Mineral (S1)       Pelotevalue Relow Surface (F2)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       3 <sup>1</sup> Indicators of hydrophylic vegetat wetland hydrology must be presume unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       3 <sup>1</sup> Indicators of hydrophylic vegetat wetland hydrology must be presume unless disturbed or problematic		arav	Loamv/Clavev	Loa				100	10YR 3/2	10-16
Image:		g.u.								
Image:										
Image:										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R, Coast Praine Redox (A16) (LRR I, MLRA 149B)         Histic (A3)       MLRA 149B)         Hydrogen Suffide (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 Mucky Mineral (F1) (LRR K, L)         Think Dark Surface (A12)       Depleted Matrix (F3)         Medox Dark Surface (F6)       Very Shallow Dark Surface (F21) (outsing Redox Dark Surface (F7)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Sandy Redox (S5)       Red Parent Material (F21) (MLRA 145)         Sandy Redox (S5)       Red Parent Material (F21) (MLRA 145)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)         Histosol (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (S11) (LRR K, L)         Depleted Below Dark Surface (A12)       Loamy Gleyed Matrix (F3)         Mesic Spodic (A17)       Depleted Matrix (F3)         Muck A 1445, 149B)       Redox Dark Surface (F6)         Sandy Redox (S5)       Mart (F10) (LRR K, L)         Sandy Redox (S5)       Mart (F10) (LRR K, L)         Red Parent Material (F21) (MLRA 145) <sup>3</sup> Indicators of hydrophytic vegetat unless disturbed or problematic									·	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Histosol (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR I,         Black Histic (A3)       MLRA 149B)       5 cm Muck (A10) (LRR K, L, MLI         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck (Paet or Peat (S3) (LIR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Toin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Toin-Manganese Masses (F12) (L         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)         Masic Spodic (A17)       Depleted Dark Surface (F7)       Other (Explain in Remarks)       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Sindicators of hydrophytic vegetat wetland hydrology must be presunesed material (F21) (MLRA 1445)       Sindicators of nydrophytic vegetat wetland hydrology must be presunesed material (F10) (MLRA 1445)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Black Histic (A3)       MLRA 149B)       Coast Prairie Redox (A16) (LRR I,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         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)       Iron-Manganese Masses (F12) (Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsid (MLRA 1445, 145, 149B)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Redox Depressions (F8) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presunted with grade or problematic         Sandy Redox (S5)       Mart (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presunted wetland hydrology must be presunted or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presunted or problematic										
Image: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,         Black Histic (A3)       MLRA 149B)         Hydric Soil Indicators:       Coast Prairie Redox (A16) (LRR K, L, MLI         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)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 145)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLR         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, MLR         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         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)       Thin Dark Surface (S9) (LR K, L)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsid (MLRA 1445, 149B))         Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Red Parent Material (F21) (MLRA 1445) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presunless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presunless disturbed or problematic										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LIR         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       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)       Thin Dark Surface (S9) (LRR K, L)         MkLRA 1445, 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) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presumes disturbed or problematic         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 145) <sup>3</sup> Indicators of problematic Problematic										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLF         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR R, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F12) (L         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsic Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Matrix (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presume solution or problematic         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 1445)       Very Shallow Dark burbed or problematic										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric S         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)       5 cm Mucky Peat or Peat (S3) (LI 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) (L Piedmont Floodplain Soils (F19) ( Mesic Spodic (A17)         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) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be pres unless disturbed or problematic										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         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)       Thin Dark Surface (S9) (LRR K, L)         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside (F7))         Marl (F10) (LRR K, L)       Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 Indicators of hydrophytic vegetat wetland hydrology must be presultive dor problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)       a statistic of hydrophytic vegetat wetland hydrology must be presultive dor problematic										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric S										
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric S         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, MLI         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S8) (LR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (         Mard (H14A, 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) <sup>3</sup> Indicators of hydrophytic vegetat wetland hydrology must be presulted or problematic         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 145) <sup>3</sup> Indicators of problematic	=Matrix.	L=Pore Linina. M=Ma	<sup>2</sup> Location: PL=Po	ins.	ked Sand Grains.	/atrix. MS=Mas	Reduced Matr	letion. RM	oncentration. D=Depl	<sup>1</sup> Type: C=Co
Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLI         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR I         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LI         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) (L         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsid         (MLRA 144A, 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)       3Indicators of hydrophytic vegetat wetland hydrology must be presultion or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 1445)       Wetland hydrology must be presultion or problematic	ydric Soils <sup>3</sup> :	or Problematic Hydr	Indicators for Pro						Indicators:	Hydric Soil
Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR I         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (L         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LI         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, IL         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsid         (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) <sup>3</sup> Indicators of hydrophytic vegetat         wetland hydrology must be presume unless disturbed or problematic       unless disturbed or problematic         Restrictive Layer (if observed):       Turct       Turct	, L, MLRA 149B)	uck (A10) ( <b>LRR K, L</b> ,	2 cm Muck (A			urface (S7)	Dark Surfa		(A1)	Histosol
Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (L         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LI         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR R, I         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsid         (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) <sup>3</sup> Indicators of hydrophytic vegetat         wetland hydrology must be presume unless disturbed or problematic       unless disturbed or problematic         Restrictive Layer (if observed):       Trace       Trace	) ( <b>LRR K, L, R</b> )	rairie Redox (A16) ( <b>L</b>	Coast Prairie I	R,	ce (S8) ( <b>LRR R,</b>	ue Below Surfa	Polyvalue I		pipedon (A2)	Histic Ep
Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LI         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, I         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (         (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) <sup>3</sup> Indicators of hydrophytic vegetat         wetland hydrology must be presume solution of the presume	(S3) ( <b>LRR K, L, R</b> )	ucky Peat or Peat (S3	5 cm Mucky P			A 149B)	MLRA 14		istic (A3)	Black Hi
Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, I         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside (F22))         (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)       3 <sup>3</sup> Indicators of hydrophytic vegetat         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be presume on problematic         Restrictive Layer (if observed):       Turor	(S8) ( <b>LRR K, L</b> )	e Below Surface (S8	B) Polyvalue Belo	RA 149B)	(LRR R, MLRA	ark Surface (S9	Thin Dark \$		en Sulfide (A4)	Hydroge
Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (L         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (         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 Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetat wetland hydrology must be presume so is disturbed or problematic         Restrictive Layer (if observed):       Turnet       Turnet	<b>RR K, L</b> )	rk Surface (S9) ( <b>LRR</b>	Thin Dark Sur	_)	11) ( <b>LRR K, L)</b>	hroma Sands (۹	High Chror		d Layers (A5)	Stratified
	(F12) ( <b>LRR K, L, R</b> )	nganese Masses (F12	Iron-Mangane	_)	(F1) ( <b>LRR K, L</b> )	Mucky Mineral	Loamy Muo	e (A11)	d Below Dark Surface	Depleted
Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outsidential (F21)	(F19) ( <b>MLRA 149B</b> )	nt Floodplain Soils (F	Piedmont Floc		F2)	Gleyed Matrix (	Loamy Gle		ark Surface (A12)	Thick Da
(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 vegetat         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetat         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be presume so is turbed or problematic         Restrictive Layer (if observed):       Turnet	(outside MLRA 145	ent Material (F21) (o	Red Parent Ma			ed Matrix (F3)	Depleted M		podic (A17)	Mesic S
Sandy Mucky Mineral (S1)       Depleted Dark Surrace (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetat         Restrictive Layer (if observed):       Turnet	e (F22)	allow Dark Surface (F	Very Shallow I		6) (FZ)	Dark Surface (F	Redox Dar		(A 144A, 145, 149B)	(MLR
Sandy Gleyed Matrix (S4)	3)	xplain in Remarks)	Other (Explain		(F7)	Doprossions /E			Aucky Mineral (ST)	Sandy IV
	vegetation and	ors of hydrophytic yea	<sup>3</sup> Indicators of I		)		Marl (F10)			Sandy B
Restrictive Layer (if observed):	be present	nd bydrology must be	wetland hvd	5)	21) (MI RA 145)	rent Material (F	Red Paren		Matrix (S6)	Stripped
Restrictive Layer (if observed):	plematic.	s disturbed or problen	unless distu	,						Outppou
									Laver (if observed):	Restrictive I
Type:									<b>,</b>	Type:
Depth (inches):	No X	nt? Yes	Hydric Soil Present?	Hvd					nches):	Depth (ir
										2 opti. (
Remarks:										<b>–</b> –


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: Coeymans/Albany Sampling Date: 11/22	2/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-	-G Wet
Investigator(s): C. Einstein & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: _	2
Subregion (LRR or MLRA): LRR R Lat:	Long: Datum: NAD	83
Soil Map Unit Name: Uh - Udorthents, clayey-urban land com	plexNWI classification: PSS1	
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes x No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignif	icantly disturbed? Are "Normal Circumstances" present? Yes <u>x</u> No _	
Are Vegetation, Soil, or Hydrologynatur	ally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS Attach site man she	wing compling point locations, transacts, important factures,	<b>.t.</b>

#### 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: near P6-G-13
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)		
X 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)	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): Wetlar	d 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: P6-G Wet

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				Total Number of Dominant Species Across All Strata: 5 (B)
5				Percent of Dominant Species 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         0         x 1 =         0
1. Cornus amomum	60	Yes	FACW	FACW species 115 x 2 = 230
2. Lonicera morrowii	5	No	FACU	FAC species $0 \times 3 = 0$
3.				FACU species 20 x 4 = 80
4.				UPL species 0 x 5 = 0
5.				Column Totals: 135 (A) 310 (B)
6.				$\frac{1}{2.30}$
7.				Hvdrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1 Impatiens capensis	25	Yes	FACW	$X_{3}$ - Prevalence Index is $\leq 3.0^{1}$
2 Lonicera morrowii		Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Cornus amomum	15	 	FACW	data in Remarks or on a separate sheet)
Sumphystrichum payi balaii		Voc		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		res	FACW	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
3				diameter at breast height (DB17), regardless of height.
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	70	=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				Hydropnytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Des	cription: (Describe	to the de	pth needed to doc	ument ti	he indica	ator or c	onfirm the absence of	f indicators.)	
Deptn (inches)	Color (moist)	%	Color (moist)	x Featur			Texture	Remarks	
		100			туре			Remarks	
5-16	10YR 4/2	60	10YR 5/4	40			Loamy/Clayey	Distinct redox concentrations	
5-16	10YR 4/2		10YR 5/4	     	    ked Sanc      		Loamy/Clayey	L=Pore Lining, M=Matrix. <b>pr Problematic Hydric Soils<sup>3</sup>:</b> ck (A10) (LRR K, L, MLRA 149B) airie 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)	
Deplete Thick Da	d Below Dark Surface ark Surface (A12)	e (A11)	Loamy Mucky	Mineral Matrix (	(F1) ( <b>LR</b> F2)	R K, L)	Iron-Man Piedmon	ganese Masses (F12) ( <b>LRR K, L, R</b> ) t Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Mesic S	podic (A17)		X Depleted Matri	x (F3)			Red Parent Material (F21) (outside MLRA 145		
(MLF	(A 144A, 145, 149B)		Redox Dark Si	Intace (F	·6)		Very Sha	allow Dark Surface (F22)	
Sandy N	Aucky Mineral (ST)		Depieted Dark	Surface	e (F7) e)			xplain in Remarks)	
Sandy F	Redox (S5)		Marl (E10) (I R		0)		<sup>3</sup> Indicator	rs of hydrophytic vegetation and	
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland	d hydrology must be present,	
Restrictive	Laver (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Presen	nt? 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/Cou	nty: Coeymans/Albany	Sam	oling Date: <u>1</u>	1/22/22
Applicant/Owner: TDI		State:	NY Sa	mpling Point:	P6-G Upl
Investigator(s): C. Einstein & J. Greaves		Section, Township, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local relief (cond	cave, convex, none): <u>Conve</u>	ĸ	Slope 9	%: <u>35</u>
Subregion (LRR or MLRA): LRR R	Lat: 42.508556	Long: <u>-73.815313</u>		Datum: N	IAD83
Soil Map Unit Name: Uh - Udorthents, clayey-Urba	an land complex	NWI classif	ication:		
Are climatic / hydrologic conditions on the site typic	al for this time of year?	Yes <u>x</u> No	(If no, explair	n in Remarks.	)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstance	es" present?	Yes <u>x</u> I	No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any an	swers in Rema	rks.)	

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

Hydrophytic Vegetation Present?	Yes N	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: near flag P6-G-13
Hydric Soil Present?	Yes N	No X	
Wetland Hydrology Present?	Yes N	No X	
Remarks: (Explain alternative procedure Deciduous forest.	es here or in a sep	arate report.)	

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 (	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): We	etland Hydrology Present? Yes No _X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	s), if available:
Remarks:		

Sampling Point: P6-G Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer platanoides	25	Yes	UPL	Number of Dominant Species
2. Prunus serotina	15	Yes	FACU	That Are OBL, FACW, or FAC:(A)
3. Fraxinus americana	15	Yes	FACU	Total Number of Dominant
4. Juniperus virginiana	15	Yes	FACU	Species Across All Strata: 9 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:11.1% (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 morrowii	20	Yes	FACU	FACW species 0 x 2 = 0
2. Juniperus virginiana	10	Yes	FACU	FAC species x 3 = 30
3. Rhamnus cathartica	10	Yes	FAC	FACU species x 4 =440
4				UPL species25 x 5 =125
5				Column Totals:145(A)595(B)
6.				Prevalence Index = B/A = 4.10
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb St <u>ratum</u> (Plot size: 5')				2 - Dominance Test is >50%
Lonicera morrowii	25	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Juniperus virginiana	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4.				Problematic Hvdrophvtic Vegetation <sup>1</sup> (Explain)
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				diameter at breast height (DBH), regardless of height.
10.				
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	30	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3 28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of i	ndicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-5	10YR 3/2	100					Loamy/Clayey		
5-15	10YR 5/3	95	10YR 5/4	5	C		Loamy/Clayey	Faint redox co	ncentrations
0-5 5-15 	10YR 3/2 10YR 5/3 10YR 5	<u>100</u> 95 	10YR 5/4	5 5 MS=Mas MS=Mas S7) Sands (S Mineral Matrix ( ix (F3) urface (F Surface sions (F	     	     	Loamy/Clayey Loamy/Clayey Loamy/Clayey 	Faint redox co Faint redox co Pore Lining, M=M Problematic Hydi (A10) (LRR K, L, rie Redox (A16) (L y Peat or Peat (S3 Below Surface (S8) Surface (S9) (LRR anese Masses (F1 Floodplain Soils (F t Material (F21) (o ow Dark Surface (f blain in Remarks)	ncentrations
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			<sup>3</sup> Indicators	of hydrophytic veg	getation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland unless d	hydrology must be isturbed or probler	present, natic
Restrictive I Type: Depth (ir	Layer (if observed):						Hydric Soil Present	? Yes	NoX



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: SelkirkSampling Date: 11/22/21
Applicant/Owner: <u>CHA</u>	State: NY Sampling Point: QA-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.50	.731 Long: <u>-73.81616</u> Datum: <u>NAD83</u>
Soil Map Unit Name:	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>N</u> , or Hydrology <u>N</u> signifi	icantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> natura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing 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:
Remarks: (Explain alternative procedures here or in a separat Wetland QA	le report.)

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)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Drv-Season Water Table (C2)		
Water Marks (B1)	Hvdrogen Sulfide Odor (C1)		Cravfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	ots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	X 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 Aguitard (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 X	No Depth (inches): 10				
Saturation Present? Yes	No X Depth (inches):	Wetlan	ld Hydrology Present? Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if	available:		
Remarks:					

Sampling Point: QA-2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet
1. Fraxinus americana	20	Yes	FACU	
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		·		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
7				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1. Cornus sericea	70	Yes	FACW	FACW species 130 x 2 = 260
2. Rhamnus cathartica	20	Yes	FAC	FAC species 55 x 3 = 165
3.				FACU species 28 x 4 = 112
4.				UPL species 0 x 5 = 0
5.				Column Totals: 213 (A) 537 (B)
6.				Prevalence Index = $B/A$ = 2.52
7.				Hydrophytic Vegetation Indicators:
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5 )		•		X 2 - Dominance Test is >50%
1. Phragmites australis	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago	35	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Tussilado	8	No	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.		·		
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	103	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes x No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	•		
······································	,			

Profile Desc	cription: (Describe t	to the dep	th needed to doc	ument t	he indica	itor or c	onfirm the absence o	f indicators.)
Depth (inches)	Color (moist)		Color (moist)	x Featur	res Type <sup>1</sup>	$loc^2$	Texture	Remarks
					190	200		Romano
0-16	10yr 4/2	95	10yr 5/8	5	<u> </u>		Loamy/Clayey	Prominent
		<u> </u>						
							·	
<sup>1</sup> Type: C=C	oncentration D=Dep	etion RM		MS=Mas	ked San	d Grains	<sup>2</sup> Location: P	l =Pore Lining M=Matrix
Hydric Soil	Indicators:			vio iviac			Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belc	ow Surfa	ce (S8) (I	LRR R,	2 cm Mu	ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)	-	MLRA 1498	5)			Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA	1 <b>49B</b> ) 5 cm Mu	icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)	-	High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	l Layers (A5)	-	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K</b> , L)	Thin Dar	rk Surface (S9) (LRR K, L)
Depleted	d Below Dark Surface	• (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)	-	X Depleted Matri	ix (F3)	-0)		Piedmon	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy N	lucky Mineral (S1)	-	Redox Dark St	urrace (F	-0) (E7)		Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
Sandy B	edox (S5)	-	Depieted Dark	sions (F	s (17) 8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)	-	Marl (F10) (LR	R K. L)	0)		Other (E	xplain in Remarks)
Dark Su	rface (S7)	-		, _,				······································
<b>—</b>	· · /							
<sup>3</sup> Indicators o	f hydrophytic vegetat	ion and we	atland hydrology m	ust be p	resent, ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								



#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/22/2021
Applicant/Owner: CHA	State: NY Sampling Point: QA-1 UPL
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.507	/37 Long: -73.81633 Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific	cantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura	Ily 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	<u>No X</u>	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 procedu Upland for WL QA	Remarks: (Explain alternative procedures here or in a separate report.) Upland for WL QA							
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)					

Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9)	-	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	-	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	-	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	-	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living R	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 Soil	s (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B	7) 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	Hydrology Present? Yes <u>No X</u>		
includes capillary fringe)					
(includes capillary tringe)					
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
(includes capiliary fringe) Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous inspe	Lections), if a	vailable:		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous insp	Lections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous insp	Lections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous insp	Lections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous insp	Lections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous inspe	ections), if a	vailable:		
Remarks:	onitoring well, aerial photos, previous insp	ections), if a	vailable:		

Sampling Point: QA-1 UPL

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	20	Yes	FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: <u>3</u> (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>50.0%</u> (A/B)
7.				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
<u>Sapling/Shrub Stratum</u> (Plot size: 15 )				OBL species 0 x 1 = 0
1. Rhamnus cathartica	20	Yes	FAC	FACW species 70 x 2 = 140
2. Cornus	30	Yes	FACW	FAC species 20 x 3 = 60
3.		·		FACU species 75 x 4 = $300$
4.				UPL species 0 x 5 = 0
5.		·		Column Totals: 165 (A) 500 (B)
6.			·	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7		·	·	Hydrophytic Vegetation Indicators:
	50	=Total Cover	·	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1 Posa multiflora	20	Voe	FACU	$3 - \text{Prevalence Index is } \leq 30^{1}$
2 Solidado	35	 	EACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Decomitos quetrolis	40	Voc		data in Remarks or on a separate sheet)
	40	165		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
+		·		
6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				Woody vines – All woody vines greater than 3.28 ft in
·		·		neight.
2				Hydrophytic
3		·		Vegetation
4.				Present? Yes <u>No X</u>
		= Fotal Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

(inches)	Color (moist) 10yr 4/4	%		in i cata	es					
0-16	10yr 4/4		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
		100					Loamy/Clavey			
		100					Loamy/olaycy			
		· ·								
		· ·								
		· ·								
		· ·						_		
		· ·			. <u> </u>					
								-		
		· ·								
<sup>1</sup> Type: C=Conce	ntration, D=Dep	letion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location	PL=Pore	Lining, M=Ma	atrix.
Hydric Soil India	cators:	,	,				Indicator	s for Prob	lematic Hydr	ic Soils <sup>3</sup> :
Histosol (A1)	•		Polyvalue Belo	ow Surfa	ce (S8) (I	_RR R,	2 cm	Muck (A10	) (LRR K, L,	MLRA 149E
Histic Epiped	lon (A2)			<b>B</b> )			Coas	t Prairie Re	edox (A16) (L	RR K, L, R)
Black Histic (	(A3)		Thin Dark Surf	, face (S9	) (LRR R	MLRA	149B) 5 cm	Mucky Pea	at or Peat (S3	) (LRR K, L
Hydrogen Su	ılfide (A4)		High Chroma	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyv	alue Below	/ Surface (S8	) (LRR K, L)
Stratified Lay	vers (A5)		Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin	Dark Surfa	ce (S9) (L <b>RR</b>	<b>K</b> , L)
Depleted Bel	ow Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-N	Manganese	Masses (F12	2) ( <b>LRR K, L</b>
Thick Dark S	urface (A12)		Depleted Matr	ix (F3)			Piedr	nont Flood	plain Soils (F	19) ( <b>MLRA</b> 1
Sandy Mucky	y Mineral (S1)		Redox Dark S	urface (F	-6)		Mesio	s Spodic (T	A6) ( <b>MLRA 1</b>	44A, 145, 1
Sandy Gleye	d Matrix (S4)		Depleted Dark	Surface	e (F7)		Red F	Parent Mate	erial (F21)	
Sandy Redo	x (S5)		Redox Depres	sions (F	8)		Very	Shallow Da	ark Surface (F	22)
Stripped Mat	rix (S6)		Marl (F10) (LR	RRK,L)			Other	· (Explain ir	n Remarks)	
Dark Surface	e (S7)									
<sup>3</sup> Indicators of hyd	Irophytic vegetat	tion and we	ətland hydrology m	ust be p	resent, ur	nless dist	urbed or problemat	ic.		
Restrictive Laye	er (if observed):	:								
Туре:										
Depth (inche	s):						Hydric Soil Pre	sent?	Yes	<u>No x</u>
Remarks <sup>.</sup>							1			



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	ity/County: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: QA Wet
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local relie	ef (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.506794	Long: -73.816832 Datum: NAD83
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification: PSS1
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 <u>x</u> 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:near flag QA-7
Remarks: (Explain alternative procedure Shrub swamp.	s 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)	Surface Water (A1) Water-Stained Leaves (B9)					
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)	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), i	f available:				
Remarks:						

Sampling Point: QA Wet

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:2(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 x 1 =
1. Cornus amomum	100	Yes	FACW	FACW species 105 x 2 = 210
2				FAC species x 3 =
3				FACU species x 4 =0
4				UPL species x 5 =
5				Column Totals: 105 (A) 210 (B)
6				Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Cornus amomum	5	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	5	=Total Cover		<b>Herb</b> – 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> )				<b>Woody vines</b> – All woody vines greater than 3.28 ft in beint
2				
3				Hydrophytic
·				Vegetation Present? Yes X No
*		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	cription: (Describe	to the de	oth needed to doc	ument tl	ne indica	ator or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es 1	2	Tautum	Deveeder
	Color (moist)		Color (moist)		Туре	LOC	I exture	Remarks
0-12	10YR 2/2	100					Loamy/Clayey	
12-18	10YR 4/2	88	10YR 4/6	10	С		Loamy/Clayey	Prominent redox concentrations
			10YR 4/1	2	d	m		
		<u> </u>						
		·						
$\frac{1}{1}$		- <u> </u>			kod San		<sup>2</sup> Location:	
Hydric Soil	Indicators:			10-11185	Keu Sand	i Grains.	Indicators f	or Problematic Hydric Soils <sup>3</sup>
Histosol	(A1)		Dark Surface (	(S7)			2 cm Mi	uck (A10) ( <b>LRR K. L. MLRA 149B</b> )
Histic Ep	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		MLRA 1498	8)	. , .		—5 cm Mı	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surf	face (S9)	) (LRR R	, MLRA <sup>·</sup>	I <b>49B</b> )Polyvalu	ue Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		High Chroma	Sands (S	611) ( <b>LR</b> I	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
X Depleted	d Below Dark Surfac	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mai	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	l Matrix (	F2)		Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic S	podic (A17)		Depleted Matr	ix (F3)			Red Par	ent Material (F21) <b>(outside MLRA 145</b> )
(MLR	(A 144A, 145, 149B) Augly: Minoral (S1)		Redox Dark Si	urface (F	·6) (EZ)		Very Sh	allow Dark Surface (F22)
Sandy G	loved Matrix (S4)		Depieted Dark	sions (E	( <i>Г1)</i> 8)			copiain in Remarks)
Sandy R	Redox (S5)		Marl (F10) (LF	8 K. L)	5)		<sup>3</sup> Indicate	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(ML</b>	RA 145)	wetlar	nd hydrology must be present,
``	( )			,	,,	,	unless	s disturbed or problematic.
Restrictive	Layer (if observed):	:						·
Туре:								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes X No
Remarks <sup>.</sup>								
r tomanto:								



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 Cit	y/County: Coeymans/Albany Sampling Date: 11/22/22	
Applicant/Owner: TDI	State: NY Sampling Point:QA U	pl
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope Local relie	f (concave, convex, none): <u>Convex</u> Slope %: <u>25</u>	
Subregion (LRR or MLRA): LRR R Lat: 42.506490	Long: -73.816907 Datum: NAD83	
Soil Map Unit Name: HuE - Hudson silt loam, 25 to 45 percent slopes	NWI classification:	
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 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: near flag QA-7
Remarks: (Explain alternative procedure Deciduous forest.	s 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)	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 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	ctions), if	available:			
Remarks:						

Sampling Point: QA Upl

The darping conditionant	Trac Stratum (Dist size: 201 )	Absolute	Dominant	Indicator	Deminence Test werkeheet			
L         Langer and the second s	<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?		Dominance Test worksneet:			
2         2         1         20         Yes         FAC         Track         D         (A)           4         Provide magnification         20         Yes         FACU         Tail Numeric Dominant Species Across All Strate:         12         (B)           5	1. Carpinus caroliniana		Yes		Number of Dominant Species			
a.         Produms americans         20         Yes         FACU         FACU         Species Across All Strats:         12         (B)           5.	2. Acer negundo		Yes	FAC	That Are OBL, FACW, or FAC:6 (A)			
4.       Privas strubus       15       Yes       FACU       Spacies Across AI Straits:       12       (B)         5.	3. Fraxinus americana		Yes	FACU	Total Number of Dominant			
5.	4. Pinus strobus	15	Yes	FACU	Species Across All Strata: <u>12</u> (B)			
6.	5		·		Percent of Dominant Species			
7.	6		·		That Are OBL, FACW, or FAC: 50.0% (A/B)			
T5         =Total Cover         Total % Cover 0:         Multiply by:           1         Rhamnus catharica         30         Yes         FAC         FACW species         20         x 1 =         0           2.         Cornus amomum         20         Yes         FAC         FACW species         20         x 3 =         270           3.	7				Prevalence Index worksheet:			
SaplingShrub Stratum (Plot size: 15')       30       Yes       FAC       FAC species       0       x 1 =       0         1.       Rhammus cathartica       30       Yes       FAC       FAC species       20       x 2 =       40         2.       Comus amomum       20       Yes       FACW       FAC species       20       x 3 =       270         3.		75	=Total Cover		Total % Cover of:Multiply by:			
1. <i>Rhannus cathartica</i> 30       Yes       FAC       FACW       FACW species       20       x 2 =       40         2. <i>Comus amonum</i> 20       Yes       FACW       FAC species       90       x 3 =       270         3.	Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =			
2.         Cornus amonum         20         Yes         FAC species         90         x3 =         270           3.	1. Rhamnus cathartica	30	Yes	FAC	FACW species 20 x 2 = 40			
3.	2. Cornus amomum	20	Yes	FACW	FAC species x 3 =			
4.	3				FACU species X 4 = 300			
5.	4				UPL species x 5 =			
6.	5.				Column Totals: 185 (A) 610 (B)			
7.	6.				Prevalence Index = B/A = 3.30			
50       =Total Cover      1       - Rapid Test for Hydrophytic Vegetation        10      10       Yes       FACU      2         1.       Solidago canadensis      10       Yes       FACU      3         2.       Lonicera morrowii      10       Yes       FACU      4      4         3.       Symphyotrichum ericcides      10       Yes       FACU      4      4      4      4      4      4      4      4      4      4      4      4      4      4      4      4      4	7.				Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5')       2 - Dominance Test is >50%         1. Solidago canadensis       10       Yes       FACU         2. Lonicera morrowii       10       Yes       FACU         3. Symphyotrichum ericoides       10       Yes       FACU         4. Toxicodendron radicans       10       Yes       FACU         5. Geum canadense       5       No       FAC         6. Taraxacum officinale       5       No       FACU         7.		50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
1.       Solidago canadensis       10       Yes       FACU       3 - Prevalence Index is ≤3.0 <sup>1</sup> 2.       Lonicera morrowii       10       Yes       FACU       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         3.       Symphyotrichum ericoides       10       Yes       FACU       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         4.       Toxicodendron radicans       10       Yes       FAC       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5.       Geum canadense       5       No       FACU       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         7.	Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%			
2.       Lonicera morrowii       10       Yes       FACU       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         3.       Symphyotrichum ericoides       10       Yes       FACU       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         4.       Toxicodendron radicans       10       Yes       FAC       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5.       Geum canadense       5       No       FAC       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         7.	1. Solidago canadensis	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
3. Symphyotrichum ericoides       10       Yes       FACU       data in Remarks or on a separate sheet)         4. Toxicodendron radicans       10       Yes       FAC       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5. Geum canadense       5       No       FAC       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         7.	2. Lonicera morrowii	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
4.       Toxicodendron radicans       10       Yes       FAC       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5.       Geum canadense       5       No       FAC <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         7.	3. Symphyotrichum ericoides	10	Yes	FACU	data in Remarks or on a separate sheet)			
5.       Geum canadense       5       No       FAC <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         6.       Taraxacum officinale       5       No       FAC       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         7.	4. Toxicodendron radicans	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6.       Taraxacum officinale       5       No       FACU       be present, unless disturbed or problematic.         7.	5. Geum canadense	5	No	FAC	<sup>1</sup> Indiastors of hydric soil and watland hydrology must			
7.	6. Taraxacum officinale	5	No	FACU	be present, unless disturbed or problematic.			
8.	7.				Definitions of Vegetation Strata:			
9.	8.				Trans Marsharts 2 in (7.0 and) as more in			
10.	9.				diameter at breast height (DBH), regardless of height.			
11.	10.				Sanling/shruh Woody plants loss than 2 in DPH			
12.	11.				and greater than or equal to 3.28 ft (1 m) tall.			
	12.							
Woody Vine Stratum       (Plot size:30')         1.       Vitis aestivalis       5       Yes       FACU         2.       Toxicodendron radicans       5       Yes       FAC         3.		50	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
1.       Vitis aestivalis       5       Yes       FACU       height.         2.       Toxicodendron radicans       5       Yes       FAC       Hydrophytic         3.	Woody Vine Stratum (Plot size: 30')		•					
2.       Toxicodendron radicans       5       Yes       FAC         3.	1. Vitis aestivalis	5	Yes	FACU	height.			
3.	2. Toxicodendron radicans	5	Yes	FAC				
4.	3.				Hydrophytic			
	4.				Vegetation Present? Yes No X			
Remarks: (Include photo numbers here or on a separate sheet.)	· · ·	10	=Total Cover					
	Remarks: (Include photo numbers here or on a separ	rate sheet )	•					

Profile Des	cription: (Describe t	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence	of indicat	tors.)	
(inches)	Color (moist)	%	Color (moist)	x realu		$\log^2$	Texture		Rema	rks
(increa)					<u> </u>				Roma	
0-17	10YR 3/3	100					Loamy/Clayey			
		<u> </u>			·					
					·					
					·					
					·					
					·					
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM	Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location:	PL=Pore I	Lining, M=Ma	atrix.
Hydric Soil	Indicators:						Indicators	for Probl	ematic Hydr	ic Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm M	uck (A10)	) ( <b>LRR K, L</b> ,	MLRA 149B)
Histic E	pipedon (A2)		Polyvalue Beld	w Surfa	ace (S8) (I	_RR R,	Coast F	Prairie Re	dox (A16) ( <b>L</b> l	RR K, L, R)
Black H	istic (A3)			)	. , .	,	5 cm M	ucky Pea	t or Peat (S3	) (LRR K, L, R)
	en Sulfide (A4)		Thin Dark Surf	, ace (S9	) (LRR R		149B) Polyval	ue Below	Surface (S8	) ( <b>LRR K, L</b> )
Stratifie	d Lavers (A5)		High Chroma	Sands (S	, ( S11) ( <b>LRF</b>	R K. L)	, Thin Da	ark Surfac	e (S9) ( <b>LRR</b>	K. L)
Deplete	d Below Dark Surface	(A11)	Loamv Muckv	Mineral	(F1) ( <b>LRI</b>	R K. L)	Iron-Ma	anganese	Masses (F12	2) ( <b>LRR K. L. R</b> )
Thick D	ark Surface (A12)	. ( ,	Loamy Gleved	Matrix	(F2)	,,	Piedmo	nt Floodn	lain Soils (F	19) (MLRA 149B)
Mesic S	podic (A17)		Depleted Matri	x (F3)	(• =)		Red Pa	rent Mate	erial (F21) <b>(o</b> u	utside MLRA 145
(MLF	RA 144A, 145, 149B)		Redox Dark Si	urface (F	-6)		Verv Sl	nallow Da	rk Surface (F	
Sandy N	/ucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (	Explain in	Remarks)	/
Sandy (	Gleved Matrix (S4)		Redox Depres	sions (F	- 8)			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
Sandy F	Redox (S5)		Marl (F10) (LR	RK.L)	-,		<sup>3</sup> Indicat	ors of hyd	drophytic veg	etation and
Stripper	Matrix (S6)		Red Parent Ma	aterial (F		<u>2</u> Δ 145)	wetla	nd hydrol	oav must he	present
					21) (11121		unles	s disturbe	ed or problem	procent,
Restrictive	l aver (if observed):									latio.
Type	Layer (il observea).									
Турс. Б. 4. 4									X	
Depth (I	nches):						Hydric Soil Prese	ent?	Yes	<u>NoX</u>
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: Coeym	ans/Albany		Sampling Date:	11/22/22
Applicant/Owner: TD	)		State:	NY	_ Sampling Point:	P6-RA Wet
Investigator(s): N. Fraze	r & J. Greaves	Section, To	wnship, Range:			
Landform (hillside, terrace	e, etc.): Depression	Local relief (concave, conve	x, none): <u>Conca</u>	ve	Slope	%: _2
Subregion (LRR or MLRA	.): <u>LRR R</u> Lat: <u>42.504673</u>	Long:	-73.817652		Datum:	NAD83
Soil Map Unit Name: Rh	A - Rhinebeck silty clay loam, 0 to 3 perce	nt slopes	NWI classi	fication:	PFO1	
Are climatic / hydrologic c	conditions on the site typical for this time of	year? Yes <u>x</u>	No	(lf no, e	explain in Remarks	.)
Are Vegetation, S	oil, or Hydrologysignificantl	y disturbed? Are "Norn	nal Circumstance	es" prese	nt? Yes <u>x</u>	No
Are Vegetation, S	oil, or Hydrologynaturally p	roblematic? (If needed	l, explain any an	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 X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: near P6-RA-13
Remarks: (Explain alternative procedures Red maple hardwood 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)	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 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), i	<sup>f</sup> available:	
Remarks:			

Sampling Point: P6-RA Wet

Trop Stratum (Plat aize: 20')	Absolute	Dominant	Indicator	Dominance Test worksheet:
1 Fravinus poposylyanica	30	<u>Species</u>		
		Vos		Number of Dominant Species
		163		
4.				Total Number of Dominant Species Across All Strata: 10 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species x 1 =
1. Ulmus americana	15	Yes	FACW	FACW species 80 x 2 = 160
2. Cornus sericea	15	Yes	FACW	FAC species65 x 3 =195
3. Rhamnus cathartica	15	Yes	FAC	FACU species20 x 4 =80
4. Lonicera morrowii	10	No	FACU	UPL species10 x 5 =50
5. Fraxinus pennsylvanica	10	No	FACW	Column Totals: 175 (A) 485 (B)
6				Prevalence Index = B/A =2.77
7				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lonicera morrowii	10	Yes	FACU	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. <u>Equisetum arvense</u>	10	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Geum canadense	10	Yes	FAC	data in Remarks or on a separate sheet)
4. Fragaria vesca	10	Yes	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Phragmites australis	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> Woody plants 3 in (7.6 cm) or more in
9.				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.				Horb All horbaccous (non woody) plants, regardless
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Weady vince All woody vince greater than 2.29 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.)			

Profile Des	cription: (Describe	to the de	pth needed to doc	ument t	he indica	ator or c	onfirm the absence of	indicators.)	
Depth (inches)	Matrix		Redo	x Featur	res 1	2	<b>T</b>	Deveseries	
(inches)		<u>%</u>	Color (moist)		Type	Loc		Remarks	
	10YR 3/2	100					Loamy/Clayey		
8-20	10YR 4/2	70	10YR 3/6	25	<u> </u>		Loamy/Clayey	Prominent redox concentrations	
	·		10YR 5/1	5	d	<u> </u>			
		·							
	oncentration D=Den	letion RM		 AS=Mas	ked Sand		<sup>2</sup> Location: Pl	=Pore Lining M=Matrix	
Hydric Soil	Indicators:			10-11103	Keu Oan		Indicators fo	or Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface (	(S7)			2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic E	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	Coast Pr	airie Redox (A16) ( <b>LRR K, L, R</b> )	
Black H	istic (A3)		MLRA 1498	8)			5 cm Mucky Peat or Peat (S3) (LRR K, L, F		
Hydroge	en Sulfide (A4)		Thin Dark Surf	face (S9)	) (LRR R	, MLRA '	149B) Polyvalue	e Below Surface (S8) (LRR K, L)	
	d Layers (A5) d Below Dark Surface	ο (Δ11)	High Chroma	Sands (S Mineral	511) (LRI (E1) (L <b>P</b> I	RK,L) PKI)	I nin Dari	K SUITACE (S9) (LRR K, L)	
Thick D	ark Surface (A12)	= (ATT)	Loamy Gleved	Matrix (	(F2)	κ κ, <b>μ</b> )	Piedmon	t Floodplain Soils (F19) (MLRA 149B)	
Mesic S	podic (A17)		X Depleted Matri	ix (F3)	/		Red Pare	ent Material (F21) <b>(outside MLRA 145</b> )	
(MLF	RA 144A, 145, 149B)		Redox Dark Si	urface (F	-6)		Very Sha	Illow Dark Surface (F22)	
Sandy M	/lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Ex	xplain in Remarks)	
Sandy C	Gleyed Matrix (S4)		Redox Depres	sions (F	8)				
Strippor	Redox (S5)		Marl (F10) (LR	R K, L)	24) /MI 8	DA 446)	Indicator	rs of hydrophytic vegetation and	
				aterial (F		<b>NA 14</b> 5)	unless	disturbed or problematic.	
Restrictive	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Presen	t? 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: Coeymans/Albany Sampling Date: City/County: Coeymans/Albany	ate: <u>11/22/22</u>
Applicant/Owner: TDI	State: NY Sampling	Point: P6-RA Upl
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Flat Lo	ocal relief (concave, convex, none): <u>None</u>	Slope %: 0
Subregion (LRR or MLRA):         LRR R         Lat:         42.504661	Long:73.817886 Datu	m: NAD83
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent s	slopesNWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes <u>x</u> No (If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrologysignificantly d	disturbed? Are "Normal Circumstances" present? Yes	x No
Are Vegetation, Soil, or Hydrologynaturally prob	blematic? (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         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes <u>No X</u> If yes, optional Wetland Site ID: <u>near flag 13</u>
Remarks: (Explain alternative procedure Deciduous forest.	es 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)	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	6) 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): W	/etland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	ns), if available:
Remarks:		

Sampling Point: P6-RA Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus strobus	40	Yes	FACU	Number of Dominant Species
2. Carya ovata	20	Yes	FACU	That Are OBL, FACW, or FAC:3(A)
3. <u>Acer rubrum</u>	10	No	FAC	Total Number of Dominant
4. Prunus serotina	5	No	FACU	Species Across All Strata: 10 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Carya ovata	15	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	15	Yes	FAC	FAC species65 x 3 =195
3. Lonicera morrowii	15	Yes	FACU	FACU species <u>145</u> x 4 = <u>580</u>
4. Cornus racemosa	15	Yes	FAC	UPL species x 5 =
5. Fraxinus americana	15	Yes	FACU	Column Totals: 210 (A) 775 (B)
6.				Prevalence Index = B/A = 3.69
7.				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Lonicera morrowii	25	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Cornus racemosa	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Geum canadense	10	No	FAC	data in Remarks or on a separate sheet)
4. Arctium minus	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in, DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	55	=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				
3				Vegetation
4				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Des	cription: (Describe	to the de	pth needed to doc	ument tl	he indica	ator or c	onfirm the absence of indi	cators.)	
Depth	Matrix		Redo	x Featur		. 2		_	
(inches)	Color (moist)		Color (moist)		Type'	Loc <sup>2</sup>	Texture	Rema	arks
0-6	10YR 2/2	100					Loamy/Clayey		
6-16	10YR 4/3	90	10YR 3/6	10			Loamy/Clayey	Distinct redox c	oncentrations
		·							
		·							
		·							
		·		_	_				
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=M	atrix.
Hydric Soil	Indicators:						Indicators for Pro	blematic Hydi	ric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	(S7)			2 cm Muck (A	10) ( <b>LRR K, L,</b>	MLRA 149B)
Histic E	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	Coast Prairie	Redox (A16) ( <b>L</b>	RR K, L, R)
Black H	istic (A3)		MLRA 149B	5)			5 cm Mucky F	eat or Peat (S3	3) ( <b>LRR K, L, R</b> )
Hydroge	en Sulfide (A4)		Thin Dark Sur	ace (S9)	) (LRR R	, MLRA	149B) Polyvalue Bel	ow Surface (S8	) (LRR K, L)
Stratifie	d Layers (A5)		High Chroma	Sands (S	611) ( <b>LRI</b>	R K, L)	Thin Dark Sur	face (S9) ( <b>LRR</b>	κ, L)
Deplete	d Below Dark Surfac	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mangane	se Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont Floo	odplain Soils (F	19) ( <b>MLRA 149B</b> )
Mesic S	podic (A17)		Depleted Matr	ix (F3)			Red Parent M	aterial (F21) <b>(o</b>	utside MLRA 145
(MLF	RA 144A, 145, 149B)		Redox Dark S	urface (F	6)		Very Shallow	Dark Surface (F	=22)
Sandy N	Aucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain	in Remarks)	
Sandy C	Gleved Matrix (S4)		Redox Depres	sions (F	8)				
Sandy F	Redox (S5)		Marl (F10) (LF	<b>R K. L</b> )	,		<sup>3</sup> Indicators of	hvdrophytic vec	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hyc	rology must be	present,
							unless distu	rbed or probler	natic.
Restrictive	Layer (if observed):								
Type. Denth (i	nches).						Hydric Soil Present?	Ves	No X
								163	
Remarks:									



**Champlain Hudson Power Express** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Coeymans/Albany Sampling Date: 6.15.22				
Applicant/Owner: TDI	State: NY Sampling Point: RA Wet				
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:				
Landform (hillside, terrace, etc.): Slight depression Local r	relief (concave, convex, none): None Slope %: 0				
Subregion (LRR or MLRA):         LRR R         Lat:         42.502845	Long: -73.818337 Datum: NAD83				
Soil Map Unit Name: RhA, RhB - Rhinebeck silty clay loam	NWI classification: PFO1				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysignificantly disturb	Ded? Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrologynaturally problemation	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 X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.) Red maple hardwood swamp.					

Wetland Hydrology Indicators:			Secondary Indicators (minimur	m of two required)	
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)	Surface Soil Cracks (B6)			
Surface Water (A1)	urface Water (A1) X Water-Stained Leaves (B9)				
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)		
X Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aeria	al Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants	s (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (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 (D	04)	
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):				
Water Table Present?     Yes       Saturation Present?     Yes	No X Depth (inches): No X Depth (inches):	Wetlan	d Hydrology Present?	Yes X No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No     X     Depth (inches):       No     X     Depth (inches):	Wetlan	d Hydrology Present?	Yes X No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)         Describe Recorded Data (stream gauge, mo	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ections), if a	d Hydrology Present?	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)         Describe Recorded Data (stream gauge, mo	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ections), if a	d Hydrology Present?	Yes <u>X</u> No	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ections), if a	d Hydrology Present?	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	d Hydrology Present?	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	available:	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	d Hydrology Present?	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)       Describe Recorded Data (stream gauge, mo         Remarks:       Remarks:	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	nd Hydrology Present?	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	<b>Id Hydrology Present?</b> available:	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	nd Hydrology Present?	Yes <u>X</u> No	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	available:	Yes <u>X</u> No	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	available:	Yes <u>X</u> No	
Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (inches): No X Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan	available:	Yes <u>X</u> No	

Sampling Point: RA Wet

Trac Stratum (Dist size: 20)	Absolute	Dominant	Indicator	Deminance Test werkeheet
1 Acos subsum		Voo		Dominance rest worksheet.
		<u> </u>		Number of Dominant Species
2. Quercus bicolor	15			$\begin{array}{c} \text{That Are OBL, FACW, of FAC.} \\ \underline{} \\ \underline{} \\ \underline{} \end{array} $
3.     Carya cordiformis       4.	15	NO		Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =57
1. Rhamnus cathartica	15	Yes	FAC	FACW species 33 x 2 = 66
2. Fraxinus pennsylvanica	10	Yes	FACW	FAC species x 3 = 330
3. Carya cordiformis	5	No	FAC	FACU species 30 x 4 = 120
4. Lonicera morrowii	5	No	FACU	UPL species 0 x 5 = 0
5.				Column Totals: 230 (A) 573 (B)
6.				Prevalence Index = B/A = 2.49
7.				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Carex bebbii	27	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2 Carex gynandra	25	Yes	 	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Parthenocissus quinquefolia		<u> </u>	FACU	data in Remarks or on a separate sheet)
4 Geum canadense	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 Solidado digantea	8	No	EACW	
6. Luthrum solicorio	5	No		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7 Phompuo optiontico	5	No		Definitions of Vagetation Strate:
	5	No		Definitions of Vegetation Strata.
			FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast neight (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				Woody vines All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ				
	ale sheel.)			

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument t	he indica	ator or co	onfirm the absence o	of indicators.)
Depth Matrix			Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-10	10YR 4/1	100					Loamy/Clayey	
10-20	10YR 5/2	60	10YR 5/8	30	C		Loamy/Clayey	Prominent redox concentrations
			10YR 5/1	10	d	m		
		- <u> </u>						
		<u> </u>						
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	 letion, RM		/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,						2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2)						Coast Prairie Redox (A16) (LRR K, L, R)149B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA								
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L)						Polyvalue Below Surface (S8) (LRR K, L)		
Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)						Thin Dark Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2)							Iron-Manganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	X Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1)			Redox Dark Surface (F6)				Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy Bedex (S5)			Depleted Dark Surface (F7)				Red Parent Material (F21)	
Salidy Redox (SS)			Mart (E10) (I BB K I)				Other (Explain in Remarks)	
Dark Su								
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mi	ust be p	resent. ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):	:	, , , , , , , , , , , , , , , , , , , ,		,			
Type:	_							
Depth (inches):						Hydric Soil Present? Yes X No		
Romarks <sup>.</sup>	·						-	
This data for	rm is revised from No	orthcentral	and Northeast Reg	ional Su	nemelagi	t Version	2.0 to include the NR	CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://v	www.nrcs.	usda.gov/Internet/F	SE_DO	CUMENT	S/nrcs14	2p2_051293.docx)	


### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/C	County: <u>Coeymans/Albany</u>	Sampling Date: 6.15.22					
Applicant/Owner: TDI		State: NY	Sampling Point: RA Upl (PFO)					
Investigator(s): John Greaves & Chris Einste	in	Section, Township, Range:						
Landform (hillside, terrace, etc.): Hillslope	Local relief (	concave, convex, none): Convex	Slope %: 10					
Subregion (LRR or MLRA): LRR R	Lat: 42.502477	Lat: 42,502477 Long: -73,818326						
Soil Map Unit Name: RhA, RhB - Rhinebeck	silty clay loam	NWI classification	ו:					
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 Hydro	logysignificantly disturbed?	Are "Normal Circumstances" pre	esent? Yes X No					
Are Vegetation, Soil, or Hydro	logy naturally problematic?	(If needed, explain any answers	in Remarks.)					
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transects, in	mportant features, etc.					

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No Yes No X	Is the Sampled Area within a Wetland? Yes No X
Remarks: (Explain alternative procedure Railroad embankment (upland) adjacent	s here or in a separate report.) to the forested portion of Wetland	RA.

Wetland Hydrology Indica	tors:				Secondary Indicators (min	nimum of two required)			
Primary Indicators (minimur	<u>n of one is requir</u>		Surface Soil Cracks (B6)						
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B10)				
High Water Table (A2)		Aquati	c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)		Marl D	eposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)		Crayfish Burrows (C8)	Crayfish Burrows (C8)			
Sediment Deposits (B2	)	Oxidize	ed Rhizospheres on Living I	Roots (C3)	Saturation Visible on A	Aerial Imagery (C9)			
Drift Deposits (B3)		Preser	nce of Reduced Iron (C4)		Stunted or Stressed F	Plants (D1)			
Algal Mat or Crust (B4)		Recen	t Iron Reduction in Tilled So	oils (C6)	Geomorphic Position	(D2)			
Iron Deposits (B5)		Thin M	luck Surface (C7)		Shallow Aquitard (D3)	)			
Inundation Visible on A	erial Imagery (B7	) Other (	(Explain in Remarks)		Microtopographic Reli	ef (D4)			
Sparsely Vegetated Co	ncave Surface (E	38)			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 No X			
(includes capillary fringe)									
Describe Recorded Data (st	ream gauge, mo	nitoring well,	aerial photos, previous ins	pections), if	available:				
Pomarks:									
INCINAINS.									

Sampling Point: RA Upl (PFO)

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:         1         (A)
3.				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
/				Prevalence Index worksheet:
		= I otal Cover		Iotal % Cover of: Multiply by:
Saping/Shrub Stratum (Plot size:)	2	No	EACU	$\begin{array}{c} \text{OBL species} \\ \hline 0 \\ \hline x \\ \hline x \\ \hline 0 \\ \hline x \\ \hline 0 \\ \hline 0 \\ \hline x \\ \hline 0 \hline \hline 0 \\ \hline 0 \\ \hline 0 \hline \hline 0 \\ $
	Z		FACU	FAC w species $0 \times 2 = 0$
2.				FAC species $30 \times 3 = 150$
S				FACU species $2$ $x 4 - 6$
4				$\begin{array}{c} \text{OPL species} \\ \text{OPL species} \\ \text{Column Tatalax} \\ Col$
5				Column Totals: <u>54</u> (A) <u>168</u> (B)
6				Prevalence Index = B/A = <u>3.11</u>
/				Hydrophytic Vegetation Indicators:
	2	= I otal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				$\frac{X}{2}$ - Dominance Test is >50%
1. Equisetum arvense	50	Yes	FAC	$-3 - \text{Prevalence Index is } \le 3.0^{\circ}$
2. <u>Centaurea stoebe</u>	2	No	UPL	4 - Morphological Adaptations' (Provide supporting
3				data in remarks of on a separate shoety
4				Problematic Hydrophytic Vegetation (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10 11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb - All herbaceous (non-woody) plants, regardless
	52	=Total Cover		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.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

inches) Colc	IVIALITX		Redo	ox Featur	es					
	or (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e	Rema	rks
	·	·				·				
						<u> </u>				
	,	·				·				
	·									
		·				·				
						·				
Type: C=Concentrat	ion, D=Deplet	tion, RM	Reduced Matrix, I	MS=Mas	ked Sanc	l Grains.	<sup>2</sup> Loo	cation: PL=Pore	e Lining, M=Ma	atrix.
lydric Soil Indicator	rs:						Ind	cators for Prob	elematic Hydr	ic Soils <sup>3</sup> :
Histosol (A1)			Polyvalue Belo	ow Surfa	ce (S8) (I	_RR R,		2 cm Muck (A10	0) ( <b>LRR K, L,</b>	MLRA 149B)
Histic Epipedon (	A2)		MLRA 149E	<b>B</b> )				Coast Prairie R	edox (A16) ( <b>L</b>	RR K, L, R)
Black Histic (A3)			Thin Dark Sur	face (S9	) (LRR R	MLRA 1	49B)	5 cm Mucky Pe	at or Peat (S3	) (LRR K, L, R
Hydrogen Sulfide	(A4)		High Chroma	Sands (S	611) ( <b>LRF</b>	R K, L)		Polyvalue Below	w Surface (S8	) (LRR K, L)
Stratified Layers (	(A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)		Thin Dark Surfa	ice (S9) (LRR	K, L)
Depleted Below L	Jark Surface (	(A11)	Loamy Gleyed	Matrix (	F2)			Iron-Manganese	e Masses (⊢12	2) (LRR K, L, F
	ce (A12)		Depleted Matr	1X (F3)	-C)			Pleamont Flood	ipiain Solis (F	19) (MLRA 149
Sandy Mucky Mir	(S1)		Redux Dark S		·0) (E7)			Red Parant Mat	rad) (IVILKA I	44A, 145, 149
Sandy Bodox (SF	301X (34)	•	Depleted Dark		;( <i>Г1)</i> 8)			Vory Shallow D	ark Surfaco (F	22)
Stripped Matrix (S	") 36)		Marl (E10) (L		0)			Other (Explain i	n Remarks)	22)
Dark Surface (S7	) )			((					in Kemarka)	
	)									
indicators of hydroph	vtic vegetatio	n and we	etland hydrology m	ust be pi	esent. ur	iless disti	urbed or prob	lematic.		
Restrictive Layer (if	observed):		, ,,		,					
Type:	,									
Depth (inches):							Hydric So	il Present?	Yes	No X
							inganio oc			



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/Co	ounty: Coeyma	ans/Albany		Sampling Date:	11/22/22
Applicant/Owner:	TDI					State:	NY	_ Sampling Point:	P6-E Wet
Investigator(s): N. Fr	azer & J. G	Breaves			_Section, Tov	vnship, Range:			
Landform (hillside, ter	race, etc.):	Terrace		Local relief (co	oncave, conve	k, none): <u>Conca</u>	ve	Slope	%: 2
Subregion (LRR or MI	.RA): <u>LR</u>	RR	Lat: 42.5046	93	Long:	-73.819913		Datum:	NAD83
Soil Map Unit Name:	RhE - Rhi	nebeck silty clay lo	am, 0 to 3 per	cent slopes		NWI classi	fication:	PFO1	
Are climatic / hydrolog	jic conditio	ns on the site typica	al for this time	of year?	Yes <u>x</u>	No	(lf no, e	explain in Remarks	.)
Are Vegetation	, Soil	, or Hydrology _	significa	ntly disturbed?	Are "Norm	al Circumstance	es" prese	ent? Yes <u>x</u>	No
Are Vegetation	, Soil	, or Hydrology _	naturally	problematic?	(If needed	, explain any an	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 X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:near flag P6-E-1
Remarks: (Explain alternative procedures Red maple hardwood swamp.	here or in a separate report.)	

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)	Water-Stained Leaves (B9)	Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced 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 X	No Depth (inches): 11			
Saturation Present? Yes X	No Depth (inches): 8 Wetlan	d 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: P6-E Wet

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:				
1. Ulmus americana	50	Yes	FACW	Number of Dominant Species				
2. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW, or FAC:(A)				
<ol> <li><u>Carya cordiformis</u></li> <li>4.</li> </ol>	10	No	FAC	Total Number of Dominant Species Across All Strata: <u>3</u> (B)				
5				Percent of Dominant Species				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of Multiply by				
Sapling/Shrub Stratum (Plot size: 15')				$\begin{array}{c} \hline \\ \hline $				
1. Fraxinus pennsylvanica	20	Yes	FACW	FACW species $80 \times 2 = 160$				
2 Lonicera morrowii		Yes	FACU	EAC species $10 \times 3 = 30$				
3.				FACU species $20 \times 4 = 80$				
4				$\frac{1}{1} \frac{1}{1} \frac{1}$				
5				$\begin{array}{c c} \hline c & c \\ c &$				
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$				
7.				Hydrophytic Vegetation Indicators:				
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%				
1.				X 3 - Prevalence Index is $\leq 3.0^1$				
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting				
3.				data in Remarks or on a separate sheet)				
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
5				<ul> <li><sup>1</sup>Indicators of hydric soil and wetland hydrology must</li> </ul>				
6				be present, unless disturbed or problematic.				
/				Definitions of Vegetation Strata:				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH				
12								
12.		=Total Cover		Herb – All herbaceous (non-woody) plants, regardless				
Woody Vine Stratum (Plot size: 30')								
(Filet 6126)				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height				
2								
3				Hydrophytic				
				Vegetation Present? Vec X No				
*		-Total Cover						
Pomarks: (Include photo numbers here or on a sona	rate sheet )							
	,							

# SOIL

Profile Desc	cription: (Describe	to the de	pth needed to docu	ıment t	he indica	tor or c	onfirm the absence of	findicators.)	
Depth	Matrix		Redo	< Featur	res				
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks
0-12	10YR 3/2	92	10YR 3/6	8	C		Loamy/Clayey	Prominent redo	x concentrations
<u>    12-18                               </u>	10YR 3/1		10YR 4/6	30			Loamy/Clayey	Prominent redo	x concentrations
								-Pore Lining M=	Matrix
Hydric Soil	Indicators:	Guon, Ri	a-required mains, iv	io-ivido	ancu Sall			or Problematic Hv	dric Soils <sup>3.</sup>
Histosol Histic Ep Histic Ep Hydroge Stratified Depleted Thick Da Mesic S (MLR Sandy M Sandy G Sandy R Sandy R Sandy R Sandy R	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) podic (A17) <b>&amp; 144A, 145, 149B)</b> Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)   Matrix (S6)	e (A11)	Dark Surface (S Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surfa ace (S9 ands (S Mineral Matrix ( x (F3) urface (F Surface sions (F <b>R K, L</b> ) terial (F	ice (S8) ( ) ( <b>LRR R</b> S11) ( <b>LRI</b> (F1) ( <b>LRI</b> (F2) = 6) = 6) (F7) 8) = 521) <b>(MLF</b>	LRR R, , MLRA <sup>,</sup> R K, L) R K, L) R K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalue Thin Darl Iron-Man Piedmon Red Pare Very Sha Other (Es <sup>3</sup> Indicato wetlan unless	ck (A10) (LRR K, I airie Redox (A16) cky Peat or Peat ( e Below Surface (S k Surface (S9) (LR ganese Masses (F t Floodplain Soils ( ent Material (F21) ( allow Dark Surface xplain in Remarks) rs of hydrophytic v d hydrology must b disturbed or probl	-, MLRA 149B) (LRR K, L, R) 53) (LRR K, L, R) 58) (LRR K, L) (R K, L) (12) (LRR K, L, R) (519) (MLRA 149B) (outside MLRA 145) (F22) egetation and be present, ematic.
Restrictive	Layer (if observed):								
Depth (ii	nches):						Hydric Soil Presen	nt? Yes_	XNo
Remarks:									



Wetland P6-E - Soils

Segment 10 – Package 6

# 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: Coeymans/Albany Sa	ampling Date: <u>11/22/22</u>
Applicant/Owner: TDI	State: NY	Sampling Point: <u>P6-E Upl</u>
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope Local relief (	(concave, convex, none): <u>Convex</u>	Slope %: 20
Subregion (LRR or MLRA):         LRR R         Lat:         42.504734	Long:73.819932	Datum: NAD83
Soil Map Unit Name: RhE - Rhinebeck silty clay loam, 0 to 3 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, exp	lain 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 Re	marks.)

#### 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: near flag P6-E-1
Remarks: (Explain alternative procedure Successional northern hardwoods.	s 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)	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	s (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 Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspecti	ons), if available:
Remarks:		

Sampling Point: P6-E Upl

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:			
1. Pinus strobus	50	Yes	FACU	Number of Dominant Species			
2. Fraxinus pennsylvanica	20	Yes	FACW	That Are OBL, FACW, or FAC:(A)			
3. <u>Rhamnus cathartica</u>	5	No	FAC	Total Number of Dominant			
4				Species Across All Strata: 7 (B)			
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)			
7.				Prevalence Index worksheet:			
	75	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15')		•		$\frac{1}{\text{OBL species}} \qquad 0 \qquad \text{x 1 = } 0$			
1. Lonicera morrowii	35	Yes	FACU	FACW species $25$ x 2 = $50$			
2. Fraxinus pennsylvanica	5	No	FACW	FAC species 20 x 3 = 60			
3. Rhamnus cathartica	5	No	FAC	FACU species 125 x 4 = 500			
4.				UPL species 5 x 5 = 25			
5.				Column Totals: 175 (A) 635 (B)			
6.				Prevalence Index = B/A = 3.63			
7.				Hydrophytic Vegetation Indicators:			
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%			
1. Solidago canadensis	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Lonicera morrowii	10	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
3. Toxicodendron radicans	5	No	FAC	data in Remarks or on a separate sheet)			
4. Symphyotrichum ericoides	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Fragaria vesca	5	No	UPL	- <sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6.				be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				<b>Tree</b> – 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		. <u> </u>		and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	45	=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. Toxicodendron radicans	5	Yes	FAC	U den skutin			
3				Vegetation			
4				Present? Yes No X			
	10	=Total Cover					
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	ntor or co	onfirm the absence of indic	ators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Rema	arks
0-1	10YR 2/1	100					Sandy		
1-6	10YR 3/2	100					Loamy/Clayey		
6-16	10YR 4/3	100					Loamy/Clayey		
					·				
					·				
<sup>1</sup> Type: C=Co	oncentration, D=Depl	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=M	atrix.
Hydric Soil	Indicators:						Indicators for Pro	blematic Hyd	ric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Muck (A1	0) ( <b>LRR K, L</b> ,	MLRA 149B)
	orpedon (A2)			w Surfa	ace (S8) (	LRR R,	Coast Prairie F	edox (A16) (L	
	suc (A3) n Sulfido (A4)		Thin Dark Surf	) 		MIDA	5 cm Mucky Pe	eat or Peat (53	$(\mathbf{LRR}\mathbf{K},\mathbf{L},\mathbf{R})$
Stratifier	1 Javers (A5)		High Chroma 9	ace (39 Sande (9	) (LKK K S11) (I <b>DI</b>		Thin Dark Surf		PKI)
	1 Below Dark Surface	Δ11)	I ngri Chroma (	Mineral	(E1) ( <b>LR</b>	RKI)		асе (39) ( <b>ск</b> о Массос (F1	2) (IRRKIR)
Thick Da	ark Surface (A12)	- (,,,,)	Loamy Gleved	Matrix	(F2)	<b>ΝΝ, Ε</b> )	Piedmont Floor	hasses (i T	(19) ( <b>MI RA 149B</b> )
Mesic Si	podic (A17)		Depleted Matri	x (F3)	(• _)		Red Parent Ma	terial (F21) <b>(o</b>	utside MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark Si	urface (I	F6)		Very Shallow D	ark Surface (I	=22)
Sandy M	lucky Mineral (S1)		 Depleted Dark	Surface	, € (F7)		Other (Explain	in Remarks)	,
Sandy G	Bleyed Matrix (S4)		Redox Depres	sions (F	8)				
Sandy R	edox (S5)		 Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicators of h	ydrophytic veg	getation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hydr	ology must be	present,
	aver (if abaamied)						unless distur	bed or probler	natic.
Type <sup>-</sup>	Layer (il observed):								
Denth (ir	nches):						Hydric Soil Present?	Ves	No X
Remarks:									



Segment 10 – Package 6

# 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: Coeymans/Albany Sampling Date: 11/22/22
Applicant/Owner: TDI	State: NY Sampling Point: P6-F We
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope Loc	cal relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u>
Subregion (LRR or MLRA): LRR R Lat: 42.504410	Long: -73.818940 Datum: NAD83
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slo	opesNWI classification: PSS1
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes <u>x</u> No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dis	sturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (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: near flag P6-F-16
Remarks: (Explain alternative procedure Shrub swamp.	s 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)	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 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)	X 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): Wetlar	d 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: P6-F Wet

Trace Obstations (Distribution 2011)	Absolute	Dominant	Indicator	Barriana Taturdakat			
<u>I ree Stratum</u> (Plot size: <u>30'</u> )	% Cover	Species?		Dominance Test worksheet:			
	15	<u> </u>		Number of Dominant Species			
3		165					
4.				Total Number of Dominant Species Across All Strata: 9 (B)			
5				Percent of Dominant Species			
7				Prevalence Index worksheet:			
··		=Total Cover		Total % Cover of Multiply by			
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}} \qquad 0 \qquad \text{x1} = 0$			
1. Cornus sericea	25	Yes	FACW	FACW species $95 \times 2 = 190$			
2. Fraxinus pennsylvanica	25	Yes	FACW	FAC species 25 x 3 = 75			
3. Rosa multiflora	8	No	FACU	FACU species 18 x 4 = 72			
4.				UPL species 0 x 5 = 0			
5.				Column Totals: 138 (A) 337 (B)			
6.				Prevalence Index = B/A = 2.44			
7.				Hydrophytic Vegetation Indicators:			
	58	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
1. Symphyotrichum novi-belgii	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Onoclea sensibilis	10	Yes	FACW	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supportin</li> </ul>			
3. Lonicera morrowii	10	Yes	FACU	data in Remarks or on a separate sheet)			
4. Geum canadense	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Cornus sericea	10	Yes	FACW	<sup>1</sup> Indicators of hydric call and watland hydrology must			
6.				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in			
9.				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			
	50	=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				Vegetation			
4				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separation	ate sheet.)						

Profile Des	cription: (Describe	to the de	oth needed to docu	ument t	he indica	ator or c	onfirm the absence o	f indicators.)		
Depth (in the c)	Matrix		Redo	x Featu	res Turna 1	2	Tautum			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type	Loc-	l exture		Remar	KS
0-9	10YR 2/2	100					Loamy/Clayey			
9-20	10YR 4/2	60	10YR 4/6	35	C		Loamy/Clayey	Prominen	redox c	oncentrations
			10YR 4/1	5	d					
							·			
	·						·			
							·			
<sup>1</sup> Type: C=C	oncentration, D=Dep	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining	, M=Mat	trix.
Hydric Soil	Indicators:						Indicators for	or Problemat	ic Hydri	c Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LR</b>	R K, L, N	<b>ILRA 149B</b> )
Histic E	pipedon (A2)		Polyvalue Belo	w Surfa	ice (S8) (	LRR R,	Coast Pr	rairie Redox (/	Գ16) ( <b>LR</b>	R K, L, R)
Black H	istic (A3)		MLRA 149B	)			5 cm Mu	icky Peat or F	eat (S3)	(LRR K, L, R)
Hydroge	en Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA <sup>·</sup>	149B)Polyvalu	e Below Surfa	ace (S8)	(LRR K, L)
	d Layers (A5) d Dalaw Dark Surface	( ) ] ]	High Chroma S	Sands (S	511) ( <b>LRI</b> (F1) ( <b>LRI</b>	RK,L)	Thin Dar	rk Surface (SS	) (LRR	
X Deplete	d Below Dark Surface	e (A11)	Loamy Mucky	Motrix (	(F1) ( <b>LR</b> ) (E2)	R K, L)	Iron-Mar	nganese Mass	es (F12)	) (LRR K, L, R) () (MI DA 1400)
Mesic S	nodic (A17)		X Depleted Matri	wainx ( v (F3)	(Г2)		Fledinor	ent Material (I	50115 (F11) E21) <b>(ou</b> r	side MI RA 145B)
(MI F	RA 144A, 145, 149B)		Redox Dark Si	rface (F	-6)		Verv Sh	allow Dark Su	rface (E2	2)
Sandy N	/uckv Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	xplain in Rem	arks)	
Sandy C	Gleyed Matrix (S4)		Redox Depres	sions (F	8)			•	,	
Sandy F	Redox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicato	ors of hydroph	ytic vege	tation and
Stripped	l Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(ML</b> F	RA 145)	wetlan	nd hydrology r	nust be p	present,
							unless	s disturbed or	problem	atic.
Restrictive	Layer (if observed):									
Type:										
Depth (i	nches):						Hydric Soil Preser	nt? Y	es 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

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

Project/Site: CHPE City/C	ounty: <u>Coeymans/Albany</u> S	ampling Date: <u>11/22/22</u>
Applicant/Owner: TDI	State: NY	Sampling Point: P6-F Upl
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope Local relief (c	oncave, convex, none): <u>Convex</u>	Slope %: 5
Subregion (LRR or MLRA):         LRR R         Lat:         42.504470	Long: <u>-73.818825</u>	Datum: NAD83
Soil Map Unit Name: RhA - Rhinebeck silty clay loam, 0 to 3 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, exp	olain 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 Re	emarks.)

#### 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: Upland adjacent to Wetland P6-F
Remarks: (Explain alternative procedure Deciduous forest.	es 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)	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 Roo	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)	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		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 inspec	ctions), if	available:			
Remarks:						

Sampling Point: P6-F Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	20	Yes	FAC	Number of Dominant Species
2. Pinus strobus	10	No	FACU	That Are OBL, FACW, or FAC:2 (A)
3. Fraxinus pennsylvanica	10	No	FACW	Total Number of Dominant
4. Populus tremuloides	15	Yes	FACU	Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
	55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Lonicera morrowii	30	Yes	FACU	FACW species 10 $x 2 = 20$
2. Rhamnus cathartica	10	Yes	FAC	FAC species 30 x 3 = 90
3.				FACU species 100 x 4 = 400
4.				UPL species 15 x 5 = 75
5.				Column Totals: 155 (A) 585 (B)
6				$\frac{100}{2}  (1)  (2) $
7				Hydrophytic Vogotation Indicators:
/		-Total Cavar		1 Denid Test for Undershutis Vegetation
	40			
Herb Stratum (Plot size: 5')			54.011	
1. Solidago canadensis	30	Yes	FACU	$3 - \text{Prevalence Index is } \le 3.0^{\circ}$
2. Fragaria vesca	15	Yes	UPL	4 - Morphological Adaptations' (Provide supporting
3. Allium schoenoprasum	5	No	FACU	
4. Pinus strobus	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Tussilago farfara	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – 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 2 in DPH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				· · · · · · · · · · · · · · · · · · ·
<u></u> (				Woody vines – All woody vines greater than 3.28 ft in height
2				noight.
2				Hydrophytic
S				Vegetation
4				Present? Yes No $\underline{x}$
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	cription: (Describe	to the dep	oth needed to doc	ument t	he indica	ator or c	onfirm the absence of i	ndicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-9	10YR 3/2	100					Loamy/Clayey		
9-16	10YR 5/6	95	10YR 3/6	5	C		Loamy/Clayey	Faint redox co	ncentrations
9-16	10YR 5/6	95 	10YR 3/6	5 MS=Mas S7) Sards (S Mineral Matrix ( ix (F3) urface (F Surface sions (F <b>R K, L</b> ) aterial (F	     	      	Loamy/Clayey	Faint redox co	ncentrations



**Upland P6-F - Soils** 

Segment 10 – Package 6

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6 C	ity/County: Selkirk Sampling Date: 11/23/21
Applicant/Owner: CHA	State: NY Sampling Point: SA-1
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):Local reli	ef (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.49293	Long: -73.81793 Datum: NAD83
Soil Map Unit Name:	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 <u>No</u> , Soil <u>y</u> , or Hydrology <u>N</u> significantly disturbed	d? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampl	ing point locations, transects, important features, etc.

Hydric Soil Present?     Yes     No       Wetland Hydrology Present?     Yes     X	Vegetation Present?     Yes X     No     Is the Sampled Area       Present?     Yes X     No x     within a Wetland?     Yes X     No       drology Present?     Yes X     No     If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate rep Wetland SA	port.)						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply	()	Surface Soil Cracks (B6)					
X Surface Water (A1) Water-Stained L	Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (I	313)	IVIOSS Trim Lines (B16)					
Saturation (A3) Mari Deposits (B	Dry-Season Water Table (C2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4)	Geomorphic Position (D2)						
Iron Deposits (B5)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)					
Field Observations:							
Field Observations:           Surface Water Present?         Yes X         No Depth (	inches):						
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes       No       Depth (	inches): inches):						
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (	inches): 2 inches): inches): Wetla	nd Hydrology Present? Yes <u>X</u> No					
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Ves       Ves       No	inches): 2 inches): Wetla	nd Hydrology Present?  Yes_X_No					
Field Observations:         Surface Water Present?       Yes       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho	inches): 2 inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photon	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho         Remarks:	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes No       Depth (         Saturation Present?       Yes No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photon         Remarks:	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No Depth (         Water Table Present?       Yes No Depth (         Saturation Present?       Yes No Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photestream         Remarks:       Remarks:	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes       No       Depth (         Saturation Present?       Yes       No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho         Remarks:	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No Depth (         Water Table Present?       Yes No Depth (         Saturation Present?       Yes No Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho         Remarks:	inches): 2 inches): Wetla inches): Wetla	nd Hydrology Present? Yes X No f available:					
Field Observations:         Surface Water Present?       Yes X       No       Depth (         Water Table Present?       Yes No       Depth (         Saturation Present?       Yes No       Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho         Remarks:	inches): 2 inches): Wetla otos, previous inspections), i	nd Hydrology Present? Yes <u>X</u> No f available:					
Field Observations:         Surface Water Present?       Yes X       No Depth (         Water Table Present?       Yes No Depth (         Saturation Present?       Yes No Depth (         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial pho         Remarks:       Remarks:	inches): 2 inches): Wetla otos, previous inspections), i	nd Hydrology Present? Yes <u>X</u> No f available:					

Sampling Point: SA-1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
1 luninerus virginiana	15	Ves	FACU	Dominance rest worksheet.
2.		163		Number of Dominant Species         That Are OBL, FACW, or FAC:       2         (A)
3				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1				FACW species 100 x 2 = 200
2				FAC species 0 x 3 = 0
3				FACU species 15 x 4 = 60
4.				UPL species 0 x 5 = 0
5				Column Totals: 115 (A) 260 (B)
6				Prevalence Index = B/A = 2.26
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phragmites australis	70	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	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				Hydronhytic
3				Vegetation
4.				Present? Yes <u>x</u> No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Loppin       Matrix       Rebox Pedautos         (inches)       Color (moist)       %       Type       Loc <sup>2</sup> Texture       Remarks         0-10       10yr 4/1	Profile Desc	ription: (Describe f	to the de	pth needed to docu	ument t	he indica	itor or co	onfirm the absence o	f indicators.)	
Interest       Codu (Intest)       no       Type       Codu       Type       Codu       Type       Codu       Type       Codu       Type       Codu       Type       Codu       Codu       Codu       Codu       Codu       Codu       Type       Codu	(inchos)		0/	Color (moist)			$\log^2$	Toxturo	Rom	orke
C-10       10yr 4/1       Loamy/Clayey         Common			/0		/0	туре	LUC	Texture	Reni	diks
Image: constraint in the second se	0-10	10yr 4/1				·		Loamy/Clayey		
Image:										
Image:										
Image:						·				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location; PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic K2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)         Histosol (A2)       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)       Loarny Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Loarny Mucky Mineral (F1)       Polyvalue Below Surface (S9) (LRR K, L)         Standy Mucky Mineral (S1)       Redox Dark Surface (F6)       Meetics Sodoic (TA4A, 145, 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Mucky Mineral (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)						·				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L R)         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 Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A12)       Depleted Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Sandy Sole (S5)       Matrix (F10) (LRR K, L)         Dark Surface (S7)       Matrix (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If observed):       Type: rock         Depth       Ind		·								
Image:										
Image:										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A1)       Coast Prairie Redox (A16) (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, R)         Phydrogen 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, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149B)         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) <sup>3</sup> Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       rock         Depth (inches):       10       Hydric Soil Present?       Yes						·				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S9) (LRR R, Histosol (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (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)         Sandy Mucky Mineral (S1)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (IRR K, L, R)         Sandy Gleyed Matrix (S4)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 149B)         Sandy Redox (S5)       Redox 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)       The define thy fore soil Present?       Yes						·				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soll Indicators:       Indicators for Problematic Hydric Solls <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (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)       Loarny Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loarny Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)         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)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Present?         Restrictive Layer (if observed):       Tock       Tock         Type:       10       HydroSoil Present?       Yes										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators:       Indicators of Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A2)       Indicators of Problematic Hydric Soils <sup>3</sup> :         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)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       rock       No_X         Depth						·				
<sup>1</sup> Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location:       PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 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 (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Ion-Manganese Masses (F12) (LRR K, L)         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, 149B)         Sandy Gleyed Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes								·		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       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, 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)         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1449, 1449, 1449, 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       No       X         Peipt (inches):       10       Hydric Soil Present?       Yes       No       X										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, MLRA 149B)       Coast Prairie Redox (A16) (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, R)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 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)         Dark Surface (S7)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histo Epipedon (A2)       Coast Prairie Redox (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, 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, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 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)         Dark Surface (S7)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes No         Meric Soil Present?       Yes No       No         Depth (inches):       10       Hydric Soil Present?       Yes No	<sup>1</sup> Type: C=Co	ncentration D=Depl	etion RM		/S=Mas	sked Sand	Grains	<sup>2</sup> Location P	=Pore Lining M=M	latrix
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       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, R)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, R)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 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)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       rock         Depth (inches):       10       Hydric Soil Present?       Yes No	Hydric Soil	ndicators:	011011, 111	r rioudood mating r	ine mai			Indicators fo	or Problematic Hyd	Iric Soils <sup>3</sup> :
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)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 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)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Tope:       rock         Depth (inches):       10       Hydric Soil Present?       Yes	Histosol	(A1)		Polyvalue Belo	w Surfa	ace (S8) ( <b>I</b>	_RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L</b> ,	, 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 (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 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)         Dark Surface (S7)       It observed):       Type:         Type:       rock       No       X	Histic Ep	ipedon (A2)		MLRA 149B	)			Coast Pr	airie Redox (A16) ( <b>I</b>	-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, R)        Thick Dark Surface (A12)      Depleted Matrix (F3)      Piedmont Floodplain Soils (F19) (MLRA 149B)        Sandy Mucky Mineral (S1)      Redox Dark Surface (F6)      Mesic Spodic (TA6) (MLRA 144A, 145, 149B)        Sandy Gleyed Matrix (S4)      Depleted Dark Surface (F7)      Red Parent Material (F21)        Sandy Redox (S5)      Redox Depressions (F8)      Very Shallow Dark Surface (F22)        Stripped Matrix (S6)      Marl (F10) (LRR K, L)      Other (Explain in Remarks)	Black His	stic (A3)		Thin Dark Surf	ace (S9	) (LRR R,	MLRA 1	l <b>49B</b> )5 cm Mu	cky Peat or Peat (S	3) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, R)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox 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:       rock       Io       Hydric Soil Present?       Yes       No       X	Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	S11) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S	3) ( <b>LRR K, L</b> )
	Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> F	<b>R K</b> , L)	Thin Dar	k Surface (S9) (L <b>RF</b>	R K, L)
	Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Man	ganese Masses (F1	2) ( <b>LRR K, L, R</b> )
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox 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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       rock       Image: Tool         Depth (inches):       10       Hydric Soil Present?       Yes       No       X	Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmon	t Floodplain Soils (F	<sup>-</sup> 19) ( <b>MLRA 149B</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:       rock         Depth (inches):       10       Hydric Soil Present?       Yes       No       X	Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (I	F6)		Mesic Sp	odic (TA6) ( <b>MLRA</b>	144A, 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)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       rock         Depth (inches):       10       Hydric Soil Present?       Yes       No       X	Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Pare	ent Material (F21)	
Stripped Matrix (S6)      Marl (F10) (LRR K, L)      Other (Explain in Remarks)        Dark Surface (S7)	Sandy R	edox (S5)		Redox Depres	sions (F	-8)		Very Sha	llow Dark Surface (	F22)
Dark Surface (S7)     alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.      Restrictive Layer (if observed):     Type:rock     Depth (inches):10     Hydric Soil Present? YesNo _X	Stripped	Matrix (S6)		Marl (F10) (LR	<b>R K</b> , L)			Other (E:	xplain in Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       rock         Depth (inches):       10         Hydric Soil Present?       Yes         No       X	Dark Sur	face (S7)								
Restrictive Layer (if observed):     Type:     rock       Depth (inches):     10     Hydric Soil Present?     Yes     No     X	<sup>3</sup> Indicators of	bydrophytic vegetat	ion and w	etland bydrology m	ist ha n	resent ur	nlose dist	urbed or problematic		
Type:     rock       Depth (inches):     10       Hydric Soil Present?     Yes	Restrictive I	aver (if observed):		iciana nyarology m	101 DC P		1000 0101			
Depth (inches):         10         Hydric Soil Present?         Yes         No         X	Туре:	rock	k							
	Depth (in	ches):	10					Hvdric Soil Preser	nt? Yes	No X
Domor/co:	Bomorko:							· · · · · · · · · · · · · · · · · · ·		



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6 (	City/County: Selkirk Sampling Date: 11/23/2021
Applicant/Owner: CHA	State: NY Sampling Point: SA-2 UPL
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):Local re	lief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.49293	Long: -73.81793 Datum:
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 <u>No</u> , Soil <u>X</u> , or Hydrology <u>No</u> significantly disturbe	ed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problemati	c? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.

Hydric Soil Present?       Yes       No       X       within a Wetland?       Yes       No       X         Remarks:       Explain alternative procedures here or in a separate report.)       If yes, optional Wetland Site ID:       No       X         Hydrology Indicators:       Primary Indicators (minimum of two required)       Surface Soil Cracks (86)       Drainage Pattorns (810)         High Water Table (A2)       Aquatic Fauna (B13)       Mos Trin Lines (B16)       Drainage Pattorns (810)         High Water Table (A2)       Aquatic Fauna (B13)       Mos Trin Lines (B16)       Drainage Pattorns (B10)         Saturation (A3)       Mari Deposits (B15)       Dry-Season Water Table (C2)       Cayring Borting Bortows (C3)       Saturation visible on Aerial Imagery (C9)         Saturation (A3)       Presence of Reduced Iron (C4)       Surface Soil Cracks (B8)       Dry-Season Water Table (C2)         If no Deposits (B3)       Presence of Reduced Iron (C4)       Surface (C1)       Cayring Burrows (C3)       Saturation (C3)         Induction Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Microtopographic Resider (D4)       Sparsely Vegetated Conceve Surface (B8)       FAC-Neutral Test (D5)         Field Observations:       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Surface Water Pre	Hydrophytic Vegetation Present	.? Y	es N	lo <u>X</u>	Is the Sampled	Area		
Wetland Hydrology Present?       Yes NoX If yes, optional Wetland Site ID:	Hydric Soil Present?	Y	es N	lo <u>X</u>	within a Wetlan	d? Yes	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)         Upland for WL SA         HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	Wetland Hydrology Present?	Y	es N	lo <u>X</u>	lf yes, optional V	Vetland Site ID:		
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	Remarks: (Explain alternative p Upland for WL SA	rocedures here	or in a sepa	rate report.)				
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)       Moss Trim Lines (B16)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Suffide Odor (C1)       Crayfish Burrows (C8)       Saturation Visible on Aerial Imagery (C9)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       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:         Sufface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):       No       X         Cincludes capillary fringe)       Decoribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	HYDROLOGY							
Primary Indicators (minimum of one is required; check all that apply)	Wetland Hydrology Indicators					Secondary Indicators (mir	nimum of two required)	
Surface Water (A1)       Water-Stained Leaves (B9)       Drainage Patterns (B10)         High Water Table (A2)       Aquatic Fauna (B13)       Moss Trim Lines (B16)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C8)         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 (B8)       FAC-Neutral Test (D5)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Mater Table Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Mater Table Present?       Yes       No       X       Depth (inches): <td>Primary Indicators (minimum of</td> <td>one is required</td> <td>; check all th</td> <td>at apply)</td> <td></td> <td>Surface Soil Cracks (</td> <td>B6)</td> <td></td>	Primary Indicators (minimum of	one is required	; check all th	at apply)		Surface Soil Cracks (	B6)	
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 Sufide 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 (B8)       FAC-Neutral Test (D5)       Field Observations:         Surface Water Present?       Yes       No X       Depth (inches):         Water Table Present?       Yes       No X       Depth (inches):         Galilary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:         Remarks:       Remarks:       Remarks:	Surface Water (A1)		Water-Sta	ained Leaves (B	9)	Drainage Patterns (B	10)	
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 (B8)       FAC-Neutral Test (D5)       Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Wetland Hydrology Present?       Yes       No         Saturation Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	High Water Table (A2)	_	Moss Trim Lines (B16)					
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)         Prift 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 (B8)       FAC-Neutral Test (D5)       Field Observations:         Surface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X         Mator Present?       Yes       No       X         Uncludes capillary fringe)       Depth (inches):       Wetland Hydrology Present?       Yes       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Saturation (A3)	_	Dry-Season Water Table (C2)					
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 (B8)       FAC-Neutral Test (D5)       Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Water Marks (B1)	_	Crayfish Burrows (C8)					
	Sediment Deposits (B2)	_	Oxidized	Rhizospheres o	n Living Roots (C3	)Saturation Visible on	Aerial Imagery (C9)	
	Drift Deposits (B3)	_	Presence	of Reduced Iro	n (C4)	Stunted or Stressed F	Plants (D1)	
	Algal Mat or Crust (B4)	_	Recent Ir	on Reduction in	Tilled Soils (C6)	Geomorphic Position	(D2)	
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? YesNo _XDepth (inches):Water Table Present? YesNo _XDepth (inches):Water Table Present? YesNo _XDepth (inches):Wetland Hydrology Present? YesNo _XNo _XNO	Iron Deposits (B5)	_	Thin Muc	k Surface (C7)		? Shallow Aquitard (D3	)	
Sparsely Vegetated Concave Surface (B8)FAC-Neutral Test (D5)   Field Observations:   Surface Water Present?   Yes   No   X   Depth (inches):   Saturation Present?   Yes   No   X   Depth (inches):   (includes capillary fringe)   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   Remarks:	Inundation Visible on Aerial	Imagery (B7)	Other (E>	plain in Remark	s)	Microtopographic Rel	ief (D4)	
Field Observations:       No       X       Depth (inches):	Sparsely Vegetated Concav	/e Surface (B8)				FAC-Neutral Test (D5	5)	
Surface Water Present?       YesNo XDepth (inches):         Water Table Present?       YesNo XDepth (inches):         Saturation Present?       YesNo XDepth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:         Remarks:	Field Observations:							
Water Table Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:       Image: No       Image:	Surface Water Present? Ye	es N	No <u>X</u>	Depth (inches):				
Saturation Present?       Yes No _X Depth (inches):       Wetland Hydrology Present?       Yes No _X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Water Table Present? Ye	es N	No <u>X</u>	Depth (inches):				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation Present? Ye	esN	No <u>X</u>	Depth (inches):	Wetla	and Hydrology Present?	Yes No 🔿	Х
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	(includes capillary fringe)							
Remarks:	Describe Recorded Data (strear	n gauge, monite	oring well, ae	erial photos, prev	vious inspections),	if available:		
Remarks:								
Remarks:								
	Remarks:							

Sampling Point: SA-2 UPL

	Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test w	orksheet:			
1. Pinus strobus	20	Yes	FACU	Number of Dominar	nt Species			
2. Juniperus virginiana	15	Yes	FACU	That Are OBL, FAC	W, or FAC:		1	(A)
3				Total Number of Do	minant			
4		·		Species Across All	Strata:		5	(B)
5				Percent of Dominan	nt Species			
6				That Are OBL, FACW, or FAC: 20.0%			.0%	(A/B)
7				Prevalence Index v	worksheet:			
	35	=Total Cover		Total % Cover	<sup>·</sup> of:	Multip	oly by:	
Sapling/Shrub Stratum (Plot size: 15 )				OBL species	0 ;	x 1 =	0	
1. Lonicera	40	Yes	FACU	FACW species	0 ;	x 2 =	0	
2.				FAC species	20 :	x 3 =	60	
3.				FACU species	105	x 4 =	420	_
4.		·		UPL species	0 ;	x 5 =	0	
5.				Column Totals:	125	(A)	480	— (B)
6.				Prevalence li	ndex = B/A		3.84	_``
7		·		- Hydrophytic Vegetation Indicators:				
	40	=Total Cover		1 - Ranid Test f	for Hydrophy	utic Vegel	tation	
Herb Stratum (Plot size: 5 )				2 - Dominance	Test is >50%	%	anon	
1 Rosa multiflora	30	Ves	FACU	3 - Prevalence	Index is <3 (	า <sup>1</sup>		
2 Solidado	20	Ves	FAC	4 - Morphologic	al Adaptatio	ons <sup>1</sup> (Prov	<i>i</i> de sur	nortina
3			17/0	data in Rema	arks or on a	separate	sheet)	porting
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain				ain)
5								
6				<ul> <li>Indicators of hydric soil and wetland hydrology r</li> <li>be present, upless disturbed or problematic</li> </ul>			must	
		·		Definitions of Vegetation Strate:				
<i>1.</i>								
8				Tree – Woody plants 3 in. (7.6 cm) or more in			ore in	
9		·	·······	diameter at breast r	ieight (DBH)	), regardi	ess of r	ieignt.
10				Sapling/shrub – W	oody plants	less than	1 3 in. E	ЭΒΗ
11		·		and greater than or	equal to 3.2	28 ft (1 m)	) tall.	
12				Herb – All herbaced	ous (non-wo	ody) plan	its, rega	ardless
	50	=Total Cover		of size, and woody	plants less t	han 3.28	ft tall.	
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				Woody vines – All	woody vines	s greater	than 3.3	28 ft in
1				height.				
2		·		Hydrophytic				
3				Vegetation				
4				Present? Y	es	<u>No</u>	x	
		=Total Cover						
Remarks: (Include photo numbers here or on a sepa	rate sheet.)							

Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Packar (F2)       Texture       Remarks         0-10       10yr 5/2       100	Remarks	Texture Loamy/Clayey	Loc <sup>2</sup>	Type <sup>1</sup>				
0-10       10yr 5/2       100       Loamy/Clayey		Loamy/Clayey			Color (moist)	%	Color (moist)	(inches)
Image: Construction in the second						100	10vr 5/2	0-10
Image: Second straight of the second								
Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Seco						· ·	·	
Image:								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Hitsic Epipedon (A2)       Indicators for Problematic Hydric         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, ML         Histic (A3)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Startified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Startified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (Inon-Manganese Masses (F12) (Inon-Man								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,         Histosol (A1)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (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)         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)       Set on Mark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Other (Explain in Remarks)       Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,         Histosol (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Polyvalue Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Thin Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)         Sandy Medox (S5)       Redox Dark Surface (F7)         Sandy Redox (S5)       Redox Dark Surface (F7)         Sandy Redox (S5)       Mari (F10) (LRR K, L)         Dark Surface (S7)       Other (Explain in Remarks)         Dark Surface (S7)       Sandy Houchy Mineral (F10) (LRR K, L)         Sandy Redox (S6)       Mari (F10) (LRR K, L)         Dark Surface (S7)       Red Parent Material (F21)         Sandy Redox (S6)       Mari (F10) (LRR K, L)         Dark Sur						• •	·	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,         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)         Polyvalue Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)         Thick 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 Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)							<u></u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         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)         Thin Chark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Sindy Redox (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, ML         Histosol (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck (A10) (LRR K, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR R,         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (Piedmont Floodplain Soils (F19))         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 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)       Thin Dark Surface (S7)       Stripped Matrix (S6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer			·					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, ML         Histosol (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (L         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)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         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)       3       Marl (F10) (LRR K, L)       Other (Explain in Remarks)								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LR Hydrogen Sulfide (A4)         High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (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)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144, Sandy Gleyed Matrix (S4)         Sandy Redox (S5)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Matrix (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Matri (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric :         Black Histic (A3)       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)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Other (Explain in Remarks)								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric         — Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, ML Coast Prairie Redox (A16) (LRR Black Histic (A3)         — Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         _ Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         _ Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         _ Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444, Sandy Gleyed Matrix (S4)         _ Sandy Redox (S5)       _ Redox Dark Surface (F7)       _ Red Parent Material (F21)         _ Sandy Redox (S5)       _ Redox Depressions (F8)       _ Very Shallow Dark Surface (F22)         _ Dark Surface (S7)       _ Red Parent Material (F21)       _ Other (Explain in Remarks)         _ Dark Surface (S7)       _ Redox Depressions (F8)       _ Very Shallow Dark Surface (F22)				-			·	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric 1         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L       Coast Prairie Redox (A10) (LRR K, L, ML         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, ML         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (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) (Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444)         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)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Sitripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric F         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML Coast Prairie Redox (A16) (LRR K, L)         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 (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444, Sandy Redox (S5)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Parent Material (F21)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Hydric Soil Indicators:       Indicators for Problematic Hydric :	ore Lining. M=Matrix.	<sup>2</sup> Location:	d Grains	asked San	Reduced Matrix. MS	letion. RM:	oncentration. D=Dec	<sup>1</sup> Type: C=C
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LR         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)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (Piedmont Floodplain Soils (F19))         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144, Sandy Redox (S5))         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)       Iron-Kernarks)       Other (Explain in Remarks)	roblematic Hydric Soils <sup>3</sup> :	Indicators			· · · · · · · · · · · · · · · · · · ·		Indicators:	Hydric Soil
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (L         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (L         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K,         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444,         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):       Other (Explain in Remarks)	A10) ( <b>LRR K, L, MLRA 149B</b> )	2 cm M	LRR R,	ace (S8)	Polyvalue Below		l (A1)	Histosol
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (L         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (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) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 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)       Restrictive Layer (if observed):       Thin Remarks)	e Redox (A16) (LRR K, L, R)	Coast F			MLRA 149B)	-	pipedon (A2)	Histic Ep
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (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) (Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144, Sandy Gleyed Matrix (S4)         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):       Thin Dark Surface (F7)	Peat or Peat (S3) (LRR K, L, R)	149B) 5 cm M	, MLRA	9) (L <b>RR</b> F	Thin Dark Surface	-	listic (A3)	Black Hi
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K,         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 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)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	elow Surface (S8) ( <b>LRR K, L</b> )	Polyval	R K, L)	(S11) (L <b>R</b>	High Chroma Sar	-	en Sulfide (A4)	Hydroge
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 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)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	urface (S9) (L <b>RR K, L</b> )	Thin Da	<b>R K, L</b> )	l (F1) (L <b>R</b>	Loamy Mucky Mi	-	d Layers (A5)	Stratified
	nese Masses (F12) (LRR K, L, R)	Iron-Ma		(F2)	Loamy Gleyed M	e (A11)	d Below Dark Surfac	Depleted
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 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)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       T	oodplain Soils (F19) ( <b>MLRA 149B</b> )	Piedmo			Depleted Matrix (	-	ark Surface (A12)	Thick Da
Sandy Gleyed Matrix (S4)Depleted Dark Surface (F7)Red Parent Material (F21)	c (TA6) ( <b>MLRA 144A, 145, 149B</b> )	Mesic S		(F6)	Redox Dark Surfa	-	Mucky Mineral (S1)	Sandy M
Sandy Redox (S5)Redox Depressions (F8)Very Shallow Dark Surface (F22) Stripped Matrix (S6)Marl (F10) (LRR K, L)Other (Explain in Remarks)Other (Explain in Remarks)Other (Explain in Remarks) Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Material (F21)	Red Pa		æ (F7)	Depleted Dark Su	-	Gleyed Matrix (S4)	Sandy G
Stripped Matrix (S6)Marl (F10) (LRR K, L)Other (Explain in Remarks)Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	v Dark Surface (F22)	Very Sh		F8)	Redox Depressio	-	Redox (S5)	Sandy F
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):	in in Remarks)	Other (E		)	Marl (F10) (L <b>RR</b>	-	d Matrix (S6)	Stripped
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):							urface (S7)	Dark Su
Restrictive Layer (if observed):		•			4	4	<b>f</b> haardaa ahaati ahaa ahaa	31
Restrictive Layer (il observed).		turbed or problematic.	niess dis	present, u	tiand hydrology must	tion and we	of hydrophytic vegeta	Postrictivo
VDE. rock						• :k		Type.
						10		турс. Б. <i>н. с</i> .
Depth (inches):10 Hydric Soil Present? Yes	Yes <u>No X</u>	Hydric Soil Prese				10	inches):	Depth (II
Remarks:								Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hy	Field Indicators of Hydric Soils,	2.0 to include the NR	t Versior	upplemer	Ind Northeast Region	orthcentral	rm is revised from No	This data for



U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-12-1; th	Corps of Engineers SHEET – Northcentral and e proponent agency is CE	I Northeast Region CW-CO-R	OMB Control #: 0710- Requirement Contro (Authority: AR 335-	0024, Exp: 11/30/2024 ol Symbol EXEMPT: 15, paragraph 5-2a)		
Project/Site: CHPE - Segment 10 - Package	je 6	City/County: Coeymans	/ Albany San	npling Date: 05/25/23		
Applicant/Owner: TDI		· · · <u>· · · · · · · · · · · · · · · · </u>	State: NY S	ampling Point SA-D Wet		
Investigator(s): N Frazer & I Greaves		Section Towns	hin Range	<u></u>		
Landform (hillside, terrace, etc.):				Slope %: 0		
Calculation (Inniside, terrace, etc.). depression						
Sublegion (LRR of MLRA). LRR R	Lai. <u>42.492002</u>	Long. <u>-73</u>	NW/L close if instigntion DS	Datum		
Soli Map Unit Name. RhA-Rhinebeck sitty				5 		
Are climatic / hydrologic conditions on the sit	te typical for this time of year?	Yes <u>x</u>	No (If no, expla	in in Remarks.)		
Are Vegetation, Soil, or Hydr	ologysignificantly disturb	bed? Are "Normal (	Circumstances" present?	Yes x No		
Are Vegetation, Soil, or Hydr	ologynaturally problema	tic? (If needed, ex	plain any answers in Rem	arks.)		
SUMMARY OF FINDINGS – Attack	n site map showing sam	pling point locatior	ns, transects, impor	tant 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 Wetlan	d Site ID:			
shrub swamp						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	condary Indicators (minim	um of two required)		
Primary Indicators (minimum of one is requ	ired; check all that apply)		_Surface Soil Cracks (B6)	)		
High Water Table (A2)	Water-Stained Leaves (E		_Drainage Patterns (B10) Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		_ Drv-Season Water Table	e (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (	C1)	Crayfish Burrows (C8)	()		
Sediment Deposits (B2)	X Oxidized Rhizospheres of	n Living Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Irc	n (C4)	Stunted or Stressed Plar	nts (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) X	_Geomorphic Position (D2	2)		
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B	<ol> <li>Other (Explain in Remark</li> </ol>	(s)	_Microtopographic Relief	(D4)		
	D0)	^				
Field Observations:	No y Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):	Wetland H	ydrology Present?	Yes X No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:						

Sampling Point: SA-D Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Rhamnus cathartica	10	Yes	FAC	Number of Dominant Species
2				That Are OBL, FACW, or FAC:5(A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5.				Percent of Dominant Species
0				Provalence Index worksheet:
<i>I</i>		=Total Cover		Total % Cover of Multiply by
Sapling/Shrub Stratum (Plot size: 15')				$\begin{array}{c c} \hline \hline \\ $
1. Cornus amomum	70	Yes	FACW	FACW species 77 x 2 = 154
2. Rhamnus cathartica	25	Yes	FAC	FAC species 40 x 3 = 120
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 117 (A) 274 (B)
6.				Prevalence Index = B/A = 2.34
7.				Hydrophytic Vegetation Indicators:
	95	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')				X 2 - Dominance Test is >50%
1. Phragmites australis	2	No	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Rhamnus cathartica	5	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Cornus amomum	5	Yes	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wotland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9.				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
	12	=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				Hydrophytic
3				Vegetation
4				Present? Yes <u>X</u> No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	cription: (Describe	to the de	epth needed to docu	ument t	he indica	ator or c	onfirm the absence o	of indicators.)	
Depth	Matrix		Redo	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 3/1	100					Loamy/Clayey		
4-16	10YR 4/1	92	10YR 4/6	8	<u> </u>	PL/M	Loamy/Clayey	Prominent redox concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RI	M=Reduced Matrix, N	/S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.	
Hyaric Soil	Indicators:		Dorld Country of	07)			indicators f		
Histosol	(A1)		Dark Surface (	57)			2 cm M	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	Epipedon (A2) Polyvalue Below Surface (S8) (LRR R,						rairie Redox (A16) (LRR K, L, R)		
Black Hi	Alack Histic (A3)MLRA 149B)						5 cm M	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	n Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA <sup>,</sup>	149B)Polyvalu	ue Below Surface (S8) ( <b>LRR K, L</b> )	
Stratified	Stratified Layers (A5)High Chroma Sands (S11) (LRR K, L)						Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )	
X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L)						<b>R K, L</b> )	Iron-Ma	nganese Masses (F12) ( <b>LRR K, L, R</b> )	
Thick Da	Thick Dark Surface (A12)Loamy Gleyed Matrix (F2)						Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Mesic S	podic (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 Shallow Dark Surface (F22)		
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)	
Sandy G	eleyed Matrix (S4)		Redox Depress	sions (F	8)				
Sandy R	ledox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicate	ors of hydrophytic vegetation and	
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetla	nd hydrology must be present,	
Restrictive	aver (if observed):								
Type <sup>.</sup>	non	e							
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No	
Remarks: Remarks:									



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and No See ERDC/EL TR-12-1; the proponent agency is CECW	rtheast Region /-CO-R	OMB Control #: 07 Requirement Co (Authority: AR 3	10-0024, Exp: 11/30/2024 ntrol Symbol EXEMPT: 35-15, paragraph 5-2a)
Project/Site: CHPE - Segment 10 - Package 6 City/	/County: <u>Coeymans /</u>	Albany	Sampling Date: 05/25/23
Applicant/Owner: TDI		State: NY	Sampling Point: SA-D Upl
Investigator(s): N. Frazer & J. Greaves	Section, Townshi	p, Range:	
Landform (hillside, terrace, etc.): flat Local relief	(concave, convex, no	ne): none	Slope %: 0
Subregion (I RR or MI RA): I RR R Lat: 42 492699	long -73	318945	 Datum <sup>.</sup> WGS84
Soil Man Unit Name: RhA-Rhinebeck silty clay loam		NWI classification	
Are elimatic / hydrologic conditions on the site typical for this time of year?	Voo x	No. (If po. or	(nlain in Pomarka )
Are Viewstetien			
Are vegetation, Soil, or Hydrologysignificantly disturbed?		rcumstances" presen	t? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, exp	lain any answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point location	s, transects, imp	oortant features, etc.
Hydrophytic Vegetation Present? Yes No X Is	the Sampled Area	Yes	No X
Wetland Hydrology Present? Yes No X If y	yes, optional Wetland	Site ID:	<u> </u>
HYDROLOGY			
Wetland Hydrology Indicators:	Sec	ondary Indicators (mi	nimum of two required)
Primary moleculors (minimum of one is required, check all that apply) Surface Water (A1) Water-Stained Leaves (B9)		Drainade Patterns (B	10)
High Water Table (A2) Aquatic Fauna (B13)	—	Moss Trim Lines (B1	6)
Saturation (A3) Marl Deposits (B15)		Dry-Season Water Ta	, able (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8	3)
Sediment Deposits (B2)Oxidized Rhizospheres on Liv	ving Roots (C3)	Saturation Visible on	Aerial Imagery (C9)
Drift Deposits (B3)Presence of Reduced Iron (C4	4)	Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tille	ed Soils (C6)	Geomorphic Position	(D2)
Inin Muck Surface (C7)		Shallow Aquitard (D3 Microtopographic Rel	) lief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D	5)
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 No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections), if availa	able:	
Remarks			

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Sampling Point: SA-D Upl

Trop Stratum (Plot size: 20')	Absolute	Dominant	Indicator	Dominance Test worksheet
<u>Tree Stratum</u> (Plot size. <u>50</u> )	% Cover	Species?	Status	Dominance Test worksneet:
				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (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 20 x 3 =60
3				FACU species 80 x 4 = 320
4.				UPL species 8 x 5 = 40
5.				Column Totals: 108 (A) 420 (B)
6.				Prevalence Index = $B/A = 3.89$
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
	5	No	EAC	$\frac{2}{3} \operatorname{Provolutions} \operatorname{Index} \operatorname{is} \leq 30^{1}$
				$\frac{3}{1000} = \frac{3}{100000000000000000000000000000000000$
		res	FACU	data in Remarks or on a separate sheet)
3. Solidago canadensis	50	Yes	FACU	
4. <u>Rumex crispus</u>	5	No	FAC	Problematic Hydrophytic Vegetation (Explain)
5. Lotus corniculatus	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Galium boreale	10	No	FAC	be present, unless disturbed or problematic.
7. Daucus carota	8	No	UPL	Definitions of Vegetation Strata:
8				<b>Tree</b> – 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.				Horb All borbaccous (non woody) plants, regardless
	108	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				We advertise a All was device a support of them 2,200 ft in
1.				height.
2.				
3				Hydrophytic
4				Vegetation Present? Yes No X
T		-Total Covor		
Demorker (Include photo numbero hero er en e espe				
Remarks: (include photo numbers here or on a sepa	arate sneet.)			

# SOIL

Profile Desc	cription: (Describe t	o the de	pth needed to docu	ument t	he indica	itor or c	onfirm the absence o	of indicators.)
Depth (inches)	Matrix	0/	Redox	x Featur		1.00 <sup>2</sup>	Toyturo	Domostico
				<u>~~</u>	Type	LOC		Remarks
	1011(4/2		10YR 5/8	4	 	 M	Loamy/olaycy	Prominent redox concentrations
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM	 I=Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	²Location: P	 <sup>2</sup> L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic E	oipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Pi	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		MLRA 149B	)			5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		Thin Dark Surfa	ace (S9	) (LRR R	, MLRA	149B) Polyvalu	ue Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		High Chroma S	Sands (S	511) ( <b>LRI</b>	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
Deplete	d Below Dark Surface	e (A11)	Loamy Mucky I	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	(F2)		Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic S	podic (A17)		X Depleted Matrix	x (F3)	. ,		 Red Par	rent Material (F21) (outside MLRA 145)
(MLR	A 144A. 145. 149B)		Redox Dark Su	Irface (F	-6)		 Verv Sha	allow Dark Surface (F22)
Sandy M	luckv Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (E	Explain in Remarks)
Sandy G	leved Matrix (S4)		Redox Depress	sions (F	8)			
Sandy F	Redox (S5)		Marl (F10) (I R	RKI)	0)		<sup>3</sup> Indicato	ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	torial (F	21) <b>(MI E</b>	A 145)	wetlar	nd hydrology must be present
[				iteriai (i	21) (111)	(A 140)	unless	s disturbed or problematic
Restrictive	aver (if observed).							
Type	rocl	<i>.</i>						
Type:		<u>`</u>						
Depth (I	ncnes):	9					Hydric Soll Presei	nt? Yes <u>×</u> No
Remarks:								
Remarks:								


U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-12-1; the	Corps of Engineers SHEET – Northcentral and e proponent agency is CE	d Northeast Region ECW-CO-R	OMB Control #: 0 Requirement C (Authority: AR	0710-0024, Exp: 11/30/2024 Control Symbol EXEMPT: 335-15, paragraph 5-2a)
Project/Site: CHPE - Segment 10 - Packag	e 6	City/County: Coeymans /	Albany	Sampling Date: 05/25/23
Applicant/Owner: TDI			State: NY	Sampling Point: CP6-C-9 Wet
Investigator(s): N. Frazer & J. Greaves		Section, Townsh	ip, Range:	
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, convex, no	ne): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.490543	Long: -73.	817168	Datum: WGS84
Soil Map Unit Name: RhA-Rhinebeck silty c	lay loam	•	NWI classification:	PFO
Are climatic / hydrologic conditions on the sit	e typical for this time of year?	Yes x	No (lf no.	explain in Remarks.)
Are Vegetation Soil or Hydro	ology significantly disturb	ped? Are "Normal C	ircumstances" prese	ent? Yes x No
Are Vegetation Soil or Hydro	plogy naturally problema	tic? (If needed, evr	lain any answers in	Remarks )
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	s, transects, im	portant 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? If yes, optional Wetland	Yes X Site ID:	No
Remarks: (Explain alternative procedures h	ere or in a separate report.)	<b>y</b> , 1		
HIDROLOGI				
Wetland Hydrology Indicators:		Sec	ondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is requi	Water-Stained Leaves (F	30) X	Drainage Patterns (	(B0) (B10)
High Water Table (A2)	Aquatic Fauna (B13)	<u> </u>	Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	, Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (	C1)	Crayfish Burrows (C	(8)
Sediment Deposits (B2)	X Oxidized Rhizospheres o	on Living Roots (C3)	Saturation Visible o	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro	on (C4)	Stunted or Stressed	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) X	Geomorphic Positic	on (D2)
Iron Deposits (B5)	<ul> <li>I nin Muck Surface (C7)</li> <li>Other (Explain in Remark</li> </ul>		Shallow Aquitard (L	J3) Joliof (D4)
Sparsely Vegetated Concave Surface (1		x (3)	FAC-Neutral Test (I	D5)
Field Observations:		<u></u>		
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, mo	onitoring well, aerial photos, pre	vious inspections), if avail	able:	
Remarks:				
adjacent to a stream				

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Sampling Point: CP6-C-9 Wet

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Rhamnus cathartica	50	Yes	FAC	Number of Dominant Species
2.				That Are OBL, FACW, or FAC:4 (A)
3 4				Total Number of Dominant Species Across All Strata:5(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
7.				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Lonicera tatarica	25	Yes	FACU	FACW species 85 x 2 = 170
2. Cornus amomum	40	Yes	FACW	FAC species 59 x 3 = 177
3. Viburnum dentatum	2	No	FAC	FACU species 30 x 4 =120
4. Viburnum lentago	5	No	FAC	UPL species 0 x 5 = 0
5.				Column Totals: 174 (A) 467 (B)
6.				Prevalence Index = B/A = 2.68
7.				Hydrophytic Vegetation Indicators:
	72	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Impatiens capensis	25	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Parthenocissus guinguefolia	5	No	FACU	data in Remarks or on a separate sheet)
4. Equisetum arvense	2	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Trees Mississier (7.0 mm) and mission
9.				diameter at breast height (DBH), regardless of height.
10.				<b>O</b> and the set of the
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	52	=Total Cover		<b>Herb</b> – All nerbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1. <u> </u>				height.
2.				
3.				Hydrophytic
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet )			

## SOIL

Profile Des	cription: (Describe	to the de	pth needed to docu	ument ti	he indica	tor or co	onfirm the absence o	f indicators.)
Depth (inclusion)	Matrix	0/	Redo	x Featur	res Trans 1	1 2	Tautana	Dementer
(inches)		<u></u>		<u>%</u>	Type		Texture	Remarks
0-6	10YR 4/1	90	10YR 4/6		<u> </u>	PL/M	Loamy/Clayey	Prominent redox concentrations
	10YR 4/1		10YR 5/8			PL/M	Loamy/Clayey	Prominent redox concentrations
$^{1}$ Type: C=C	oncentration D=Den	letion RM		/S=Mas	ked Sand	Grains	<sup>2</sup> Location: F	
Hydric Soil Histosol Histic E Black H Hydroge Stratifier Depleter Thick Da Mesic S (MLF Sandy N Sandy C Sandy F Stripped	Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) podic (A17) RA 144A, 145, 149B) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed): non	e (A11)	Dark Surface ( Polyvalue Belo <b>MLRA 149B</b> Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) ( <b>LR</b> Red Parent Ma	S7) w Surfa ) ace (S9) Sands (S Mineral Matrix ( x (F3) urface (F Surface sions (Fa <b>R K, L</b> ) aterial (F	ce (S8) ( ) ( <b>LRR R</b> 611) ( <b>LRI</b> (F1) ( <b>LRI</b> (F1) ( <b>LRI</b> F2) 6 (F7) 8) 21) ( <b>MLF</b>	LRR R, , MLRA <sup>2</sup> R K, L) R K, L) R A 145)	Indicators f 2 cm Mu Coast P 5 cm Mu 149B) Polyvalu Thin Da Iron-Mar Piedmor Red Par Very Sh Other (E <sup>3</sup> Indicato wetlar unless	or Problematic Hydric Soils <sup>3</sup> : Jack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) Jacky Peat or Peat (S3) (LRR K, L, R) Jacky Peat or Peat (S3) (LRR K, L, R) Jacky Peat or Peat (S3) (LRR K, L, R) The Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rh Surface (S9) (LRR K, L) mganese Masses (F12) (LRR K, L, R) the Floodplain Soils (F19) (MLRA 149B) tent Material (F21) (outside MLRA 145) allow Dark Surface (F22) Explain in Remarks) fors of hydrophytic vegetation and and hydrology must be present, a disturbed or problematic.
Remarks: Remarks:								



Wetland CP6-C-9- View facing south



Wetland CP6-C-9- Soils

Segment 10

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-12-1; the	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)				
Project/Site: CHPE - Segment 10 - Packag	e 6	City/County: Coeymans	Albany Sampling Date: 05/25/23		
Applicant/Owner: TDI			State: NY Sampling Point: CP6-C-9 Upl		
Investigator(s): N. Frazer & J. Greaves		Section, Towns	ship, Range:		
Landform (hillside terrace etc.): flat	l ocal r	elief (concave convex )	none) none Slope % 0		
Subregion (LRR or MLRA): LRR R	Lat: 42.490600	long: -7	3.817032 Datum: WGS84		
Soil Man Unit Name: RhA-Rhinebeck silty of	lav loam	Long. <u>-/</u>	NWI classification: n/a		
Are elimetic ( hydrologic conditions on the eli	a turnical for this time of year?	Yee v			
		res x			
Are vegetation, Soll, or Hydro		Are Normal	Circumstances present? Yes x No		
Are Vegetation, Soil, or Hydro	ology naturally problema	itic? (If needed, e	xplain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point locatio	ns, 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? If yes, optional Wetlan	Yes         No         X           nd Site ID:		
Remarks: (Explain alternative procedures h scrub shrub upland	ere or in a separate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:		<u>S</u> (	econdary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (I	39)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Mari Deposits (B15)	<u> </u>	Dry-Season Water Table (C2)		
Sediment Deposits (B2)		n 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 ir	Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remar	ks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (I	38)	_	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 H	lydrology Present? Yes No X		
(includes capillary fringe)		······································	- 1 - 1 - 1 -		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	vious inspections), if ava	alladie:		
Remarks:					

Sampling Point: CP6-C-9 Upl

	Absolute	Dominant	Indicator	Deminente Test werkelsest
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?		Dominance Test worksneet:
1.         Rnamnus catnartica           2.	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3 4				Total Number of Dominant Species Across All Strata: 5 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1. Lonicera tatarica	50	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	35	Yes	FAC	FAC species 57 x 3 = 171
3				FACU species 92 x 4 = 368
4.				UPL species 0 x 5 = 0
5.				Column Totals: 149 (A) 539 (B)
6.				Prevalence Index = $B/A = 3.62$
7.				Hvdrophytic Vegetation Indicators:
	85	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1 Equisetum anyense	5	No	FAC	$\frac{1}{3} = \frac{1}{2} = \frac{1}$
Cyusetum aivense		Vee		5 - 1 revalence index is 25.0
				data in Remarks or on a separate sheet)
		<u> </u>	FACU	
4. Toxicodendron radicans	2	No	FAC	Problematic Hydrophytic Vegetation (Explain)
5. <u>Fragaria virginiana</u>	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Lonicera tatarica	10	Yes	FACU	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb - All berbaceous (non-woody) plants, regardless
	49	=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
4				Vegetation Present? Yes No X
		=Total Cover		
Pomarka: (Include photo numbers here or on a con	arato shoot )			

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument tl	he indica	ator or c	onfirm the absence of	indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-9	10YR 3/1	100					Loamy/Clayey		
9-16	2.5Y 5/4	84	2.5Y 3/2	15	C	M	Loamy/Clayey	Distinct redox co	oncentrations
			10YR 5/8	1	С	M		Prominent redox of	concentrations
<u> </u>									
<u> </u>									
$\frac{1}{1}$		lotion PM			kod Sand		<sup>2</sup> Location: Pl	-Poro Lipipa M-Ma	atrix
Hydric Soil	Indicators:			10-11/185		i Giallis.		r Problematic Hvdr	ic Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	(S7)			2 cm Mu	ck (A10) ( <b>LRR K, L</b> ,	MLRA 149B)
Histic Ep	oipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (l	LRR R,	Coast Pra	airie Redox (A16) (LI	RR K, L, R)
Black Hi	stic (A3)		MLRA 149B	3)	. , .		5 cm Mu	cky Peat or Peat (S3	) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Thin Dark Surf	face (S9)	) (LRR R	, MLRA	149B) Polyvalue	e Below Surface (S8)	(LRR K, L)
Stratified	d Layers (A5)		High Chroma	Sands (S	611) ( <b>LRF</b>	R K, L)	Thin Dark	k Surface (S9) ( <b>LRR</b>	K, L)
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	<b>R K, L</b> )	Iron-Man	ganese Masses (F12	2) (LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont	t Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
			Depleted Matri	IX (F3)			Red Pare	ent Material (F21) <b>(ot</b>	utside MLRA 145)
(IMLR Sandy M	A 144A, 145, 149B) Aucky Mineral (S1)		Redox Dark Si	Surface	·0) (E7)		Very Sna	illow Dark Surlace (F volain in Remarks)	22)
Sandy R	leved Matrix (S4)		Bedox Depres	sions (Fi	8)				
Sandy R	ledox (S5)		Marl (F10) (LR	RRK,L)	-		<sup>3</sup> Indicator	rs of hydrophytic veg	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland	d hydrology must be	present,
						-	unless	disturbed or problem	natic.
Restrictive I	Layer (if observed):								
Туре:	nor	ie							
Depth (ir	nches):						Hydric Soil Presen	t? Yes	No X
Remarks:							•		
Remarks:									



Upland CP6-C-9- View facing east



Upland CP6-C-9- Soils

Segment 10

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6 City	/County: Selkirk Sampling Date: 11/23/21
Applicant/Owner: CHA	State: NY Sampling Point: TA-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):Local relief	(concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.48894	Long: -73.81620 Datum: NAD83
Soil Map Unit Name:	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 <u>No</u> , Soil <u>Y</u> , or Hydrology <u>N</u> significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally 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 <u>X</u> Yes <u>X</u>	No No No	Is the Sampled Area within a Wetland? Yes X No		
Remarks: (Explain alternative procedu Wetland TA	es here or in a se	eparate report.)			
HYDROLOGY					
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r         X       Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfation	<u>equired; check al</u> Water Aquati Marl E Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8)	II that apply) -Stained Leaves (E ic Fauna (B13) Deposits (B15) ogen Sulfide Odor ( zed Rhizospheres o nce of Reduced Iro nt Iron Reduction in Muck Surface (C7) (Explain in Remark	39) C1) on Living Roots (C3) on (C4) n Tilled Soils (C6) ks)	Secondary Indicators (minimum of two required)         Surface Soil Cracks (B6)         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         Geomorphic Position (D2)         Shallow Aquitard (D3)         Microtopographic Relief (D4)         FAC-Neutral Test (D5)	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)       Describe Recorded Data (stream gauge)	No N	Depth (inches): Depth (inches): Depth (inches): I, aerial photos, pre	Wetlan	<b>id Hydrology Present?</b> Yes <u>X</u> No available:	
Remarks:					

Sampling Point: TA-2

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1,		·		Number of Dominant Chaption
2.				That Are OBL, FACW, or FAC:4 (A)
3				Total Number of Dominant
4				Species Across All Strata: (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7		<b>.</b>		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 70 x 1 = 70
1. Ilex verticillata	25	Yes	FACW	FACW species 95 x 2 = 190
2		<b>.</b>		FAC species 0 x 3 = 0
3				FACU species0 x 4 =0
4.		<u> </u>		UPL species 0 x 5 = 0
5.				Column Totals: 165 (A) 260 (B)
6.				Prevalence Index = B/A = 1.58
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		I		X 2 - Dominance Test is >50%
1. Iris	70	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2 I vthrum salicaria	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Bidens	40	Yes	FACW	data in Remarks or on a separate sheet)
4		,		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
				Indicators of hydric soil and wetland hydrology must
7				Definitions of Vegetation Strata:
۲ R				Definitions of vegetation of ata.
9.				<b>Tree</b> – 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.				Herb All herbassous (son woody) plants, regardless
	140	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woodv Vine Stratum (Plot size: 30 )				
,, _,, ,, ,, ,,				woody vines – All woody vines greater than 3.20 it in height.
2.				
3.				Hydrophytic
4				Vegetation Present? Yes x No
		=Total Cover	·	
Pomarke: (Include photo numbers here or on a separ	rate sheet )			
	dle sneer.			

Profile Desc	ription: (Describe t	o the de	pth needed to doc	ument t	he indicator or o	confirm the absence o	of indicators.)	
Depth	Matrix		Redo	x Featu	res	_		
(inches)	Color (moist)	%	Color (moist)	%	Type Loc <sup>2</sup>	Texture	Rema	arks
<sup>1</sup> Type: C=Cc	ncentration, D=Depl	etion, RN	1=Reduced Matrix, I	MS=Mas	sked Sand Grains	s. <sup>2</sup> Location: F	L=Pore Lining, M=M	atrix.
Hydric Soil I	ndicators:					Indicators f	or Problematic Hyd	ric Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Belo	ow Surfa	ace (S8) ( <b>LRR R,</b>	2 cm Mu	uck (A10) ( <b>LRR K, L,</b>	MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149E	<b>B</b> )		Coast P	rairie Redox (A16) (L	RR K, L, R)
Black His	stic (A3)		Thin Dark Sur	face (S9	) (LRR R, MLRA	. <b>149B</b> ) 5 cm Mu	ucky Peat or Peat (S3	3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma	Sands (S	S11) ( <b>LRR K, L)</b>	Polyvalu	ie Below Surface (S8	) ( <b>LRR K, L</b> )
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LRR K, L)	Thin Da	rk Surface (S9) (L <b>RR</b>	<b>K, L</b> )
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix	(F2)	Iron-Mai	nganese Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matr	ix (F3)		Piedmor	nt Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark S	urface (F	=6)	Mesic S	podic (TA6) ( <b>MLRA</b> 1	44A, 145, 149B)
Sandy G	eyed Matrix (S4)		Depleted Dark	Surface	e (F7)	Red Par	ent Material (F21)	
Sandy Re	edox (S5)		Redox Depres	sions (F	8)	Very Sh	allow Dark Surface (I	-22)
Stripped	Matrix (S6)		Marl (F10) (LF	RRK,L)		Other (E	xplain in Remarks)	
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	vetland hydrology m	ust be p	resent, unless di	sturbed or problematic.		
Restrictive L	ayer (if observed):							
Туре:	rock	κ						
Depth (in	ches):	0				Hydric Soil Prese	nt? Yes	No X
Romarka:	,							
Remarks. Railroad balls	aet							
Trainoad baile	151							



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 - Segment 10 - Package 6 City/County: Coeymans	/ Albany Sampling Date: 05/25/23
Applicant/Owner: TDI	State: NY Sampling Point: TA-30 Wet
Investigator(s): N. Frazer & J. Greaves Section, Towns	hip, Range:
Landform (hillside, terrace, etc.): depression Local relief (concave, convex, r	none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42.489439 Long: -7	3.816843 Datum: WGS84
Soil Map Unit Name: HuB-Hudson silt loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes x	No (If no explain in Remarks )
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal	Circumstances" present? Yes x No
Are Vegetation, or Hydrologysignificantly distribute: Are Normal	volain any answers in Pomarks )
SUMMARY OF FINDINGS – Attach site map showing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       X       No       Is the Sampled Area         Hydric Soil Present?       Yes       X       No       within a Wetland?         Wetland Hydrology Present?       Yes       X       No       If yes, optional Wetlar         Remarks:       (Explain alternative procedures here or in a separate report.)       within a Wetland?       If yes, optional Wetlar	Yes X No
HYDROLOGY	
Wetland Hydrology Indicators:         Se           Primary Indicators (minimum of one is required: check all that apply)         Se	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 Iron (C4)     Algal Mat or Crust (B4)     Becapt Iron Peduction in Tilled Soile (C6)	Stunted of Stressed Plants (D1)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	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)	hydrology Present? res <u>A</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ilable:
Remarks:	

Sampling Point: TA-30 Wet

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?		Dominance Test worksneet:
		<u> </u>		Number of Dominant Species
2. Fraxinus perinsylvanica	15		FACVV	$\frac{1}{1}$
3				Total Number of Dominant
4				Species Across All Strata:(B)
5		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
7				Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of Multiply by
Sapling/Shrub Stratum (Plot size: 15')				$\begin{array}{c} \hline \hline \\ $
1. Lonicera tatarica	20	Yes	FACU	FACW species $95 \times 2 = 190$
2. Fraxinus pennsylvanica	25	Yes	FACW	FAC species 97 x 3 = 291
3.				FACU species 50 x 4 = 200
4.				UPL species $0 \times 5 = 0$
5				Column Totals: 257 (A) 696 (B)
6.				Prevalence Index = $B/A = 2.71$
7.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Galium aparine	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Fragaria virginiana	5	No	FACU	data in Remarks or on a separate sheet)
4. Persicaria virginiana	8	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Fraxinus pennsylvanica	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Rhamnus cathartica	2	No	FAC	be present, unless disturbed or problematic.
7. Carex stipata	15	Yes	OBL	Definitions of Vegetation Strata:
8. Solidago rugosa	5	No	FAC	<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9. Arisaema triphyllum	2	No	FAC	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
	102	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3 28 ft in
1. Celastrus orbiculatus	10	Yes	FACU	height.
2. Parthenocissus quinquefolia	5	Yes	FACU	
3.				Hydrophytic Vegetation
4.				Present? Yes X No
	15	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

## SOIL

Profile Desc	ription: (Describe	o the de	pth needed to docu	ument tl	ne indica	tor or c	onfirm the absence o	f indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10YR 3/1	90	10YR 6/6	10	C	M	Loamy/Clayey	Prominent redox concentrations	
9-16	10YR 5/2	45	10YR 3/1	25	C	M	Loamy/Clayey	Faint redox concentrations	
			10YR 5/6	30			·	Prominent redox concentrations	
							·		
				_					
							·		
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM	/=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils <sup>3</sup> :									
Histosol (A1) Dark Surface (S7)							2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Ep	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, R)			
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R. MLRA 1						149B) Polyvalue Below Surface (S8) (LRR K, L)			
Stratified Lavers (A5) High Chroma Sands (S11) (LRR K. L)						Thin Dark Surface (S9) (LRR K. L)			
Depleted Below Dark Surface (A11)					<b>κ. L</b> )	Iron-Manganese Masses (F12) (I RR K I R)			
Thick Da	rk Surface (A12)	Loamy Gleved Matrix (F2)				Piedmor	t Eloodolain Soils (E19) ( <b>MI RA 149B</b> )		
Mesic Sr	(A17)	Depleted Matrix (F3)				Red Par	rent Material (E21) (outside MI RA 145)		
(MI P	A 144A 145 149B)	X Redox Dark Surface (F6)				Very Shallow Dark Surface (E22)			
Sandy Mucky Mineral (S1)			Redux Dark Surface (F0)				Other (E	Evolain in Remarks)	
Sandy Mucky Milleral (ST)			Depieted Dark Surface (F7)						
Sandy Bodox (S5)			Redox Depressions (F8)				<sup>3</sup> Indicators of hydronhytic versitation and		
Salidy R	Hotrix(SC)	Mail (F10) (LRR R, L) Red Percent Material (E21) (ML DA 145)				Indicators of hydrophytic vegetation and			
							unless	s disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type: -	non	e							
Depth (ir	iches):						Hydric Soil Preser	nt? Yes <u>X</u> No	
Remarks:									
Remarks.									
1									

