

Upland VG-H-4- View facing east



Upland VG-H-4- Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	City/County: Coxsack	tie / Greene	Sampling Date: 06/29/23		
Applicant/Owner: TDI		State: NY	Sampling Point: Wet VGA-2		
Investigator(s): C.Scrivner & C. Einstein	Section, Tow	nship, Range:			
	relief (concave, convex		Slope %: 1		
		-73.818417° W	Datum: WGS84		
			PEM1		
Soil Map Unit Name: HvB: Hudson and Vergennes soils, 3 to 8 percent slo	opes	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.	rbed? Are "Norm	al Circumstances" prese	nt? Yes x No		
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locat	tions, transects, ir	nportant features, etc.		
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Are	na .			
Hydric Soil Present? Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present? Yes X No		and Site ID: Near flag			
Remarks: (Explain alternative procedures here or in a separate report.)	1 ' '	·			
Shallow emergent marsh with some scattered shrubs.					
· ·					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks	(B6)		
Surface Water (A1) Water-Stained Leaves ((B9)	Drainage Patterns (B10)		
High Water Table (A2) Aquatic Fauna (B13)		Moss Trim Lines (B	16)		
Saturation (A3) Marl Deposits (B15)		Dry-Season Water	Table (C2)		
Water Marks (B1) Hydrogen Sulfide Odor	(C1)	Crayfish Burrows (C	(8)		
Sediment Deposits (B2) X Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced In		Stunted or Stressed	Plants (D1)		
Algal Mat or Crust (B4)Recent Iron Reduction i	n Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	. , ,				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remainder)					
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I	D5)		
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes X No Depth (inches):	: 10 Wetland	Hydrology Present?	Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro-	evious inspections), if a	vailable:			
Remarks:					
nomans.					

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
	-/₀ Cover	Species:	Status	Dominance rest worksneet.			
·	1			Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
				Total Number of Dominant Species Across All Strata:3(B)			
				Percent of Dominant Species			
	·			That Are OBL, FACW, or FAC: 100.0% (A/B			
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
apling/Shrub Stratum (Plot size:15')				OBL species 40 x 1 = 40			
. Viburnum dentatum	10	Yes	FAC	FACW species 0 x 2 = 0			
				FAC species 68 x 3 = 204			
				FACU species 2 x 4 = 8			
				UPL species 0 x 5 = 0			
				Column Totals: 110 (A) 252 (B			
				Prevalence Index = B/A = 2.29			
				Hydrophytic Vegetation Indicators:			
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%			
. Euthamia graminifolia	40	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹			
. Juncus effusus	15	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportin			
. Juncus tenuis	10	No	FAC	data in Remarks or on a separate sheet)			
. Scirpus cyperinus	10	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
. Carex vulpinoidea	5	No	OBL	¹ Indicators of hydric soil and wetland hydrology must l			
Penstemon digitalis	5	No	FAC	present, unless disturbed or problematic.			
. Eutrochium maculatum	5	No	OBL	Definitions of Vegetation Strata:			
. Lythrum salicaria	5	No	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diamete			
. Geum aleppicum	3	No	FAC	at breast height (DBH), regardless of height.			
0. Erigeron annuus	2	No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH			
1.				and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardless			
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
·				height.			
<u> </u>							
i				Hydrophytic Vegetation			
				Present? Yes X No			
		=Total Cover					
	•						

SOIL Sampling Point: Wet VGA-2

Profile Descr Depth	ription: (Describe to Matrix	the dep		ment the		tor or co	onfirm the absence of	indicators.)		
(inches)	Color (moist)	%	Color (moist)	% realure	Type ¹	Loc ²	Texture	Remarks		
0-10	10YR 4/2	85	10YR 4/6	15	C	PL/M	Loamy/Clayey	Prominent redox concentrations		
10-16	7.5YR 5/1	70	7.5YR 5/6	30	С	M	Mucky Loam/Clay	Prominent redox concentrations		
10 10	7.011(0/1		7.011(0/0				Wideky Eddill/ Clay	Tromment redox concentrations		
	·									
							-			
								_		
¹ Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil Ir								or Problematic Hydric Soils ³ :		
Histosol (,		Dark Surface (,	(00) (1	DD D		ick (A10) (LRR K, L, MLRA 149B)		
Black His	pedon (A2)		Polyvalue Belo MLRA 149B		e (58) (I	LKK K,		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Thin Dark Surfa	,	(LRR R.	MLRA 1		e Below Surface (S8) (LRR K, L)		
	Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Mucky					Manganese Masses (F12) (LRR K, L, R)		
Thick Dar	rk Surface (A12)		Loamy Gleyed	Matrix (F	- 2)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)		
	odic (A17)		X Depleted Matri					ent Material (F21) (outside MLRA 145)		
•	A 144A, 145, 149B)		Redox Dark Su					allow Dark Surface (F22)		
	ucky Mineral (S1)		Depleted Dark		. ,		Other (E	xplain in Remarks)		
Sandy G	eyed Matrix (S4)		Marl (F10) (LR	•	3)		³ Indicato	rs of hydrophytic vegetation and		
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)	wetland hydrology must be present,			
<u> </u>	,			`	, ,	,		s disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No		
Remarks:							1			
Remarks:										



Wetland VGA near flag VGA-2 - View facing east



Wetland VGA near flag VGA-2- Soils

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	City	y/County: Coxsackie / Greene	Sampling Date: 06/29/23
Applicant/Owner: TDI		State: NY	Sampling Point: Upl VGA-2
Investigator(s): C.Scrivner & C. Einstein		Section, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.): Flat	L ocal relief	f (concave, convex, none): None	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.382278° N	Long: -73.818684° W	Datum: WGS84
Soil Map Unit Name: HvB: Hudson and Vergenr	_		NA
Are climatic / hydrologic conditions on the site typ	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	? Are "Normal Circumstances" prese	nt? Yes x No
Are Vegetation, Soil, or Hydrolog	ynaturally problematic?	(If needed, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing samplin	ng point locations, transects, imp	portant features, etc.
Liberton butin Vanatation December 1	No V	a the Commission Area	
Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye		s the Sampled Area vithin a Wetland? Yes	Na V
Hydric Soil Present? Ye Wetland Hydrology Present? Ye		vithin a Wetland? Yes f yes, optional Wetland Site ID:	No X
Remarks: (Explain alternative procedures here		yes, optional wettand site ib.	
Unpaved road/stone lined path.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks	(B6)
Surface Water (A1)	Water-Stained Leaves (B9)	 Drainage Patterns (I	, ,
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Γable (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Li	iving Roots (C3) Saturation Visible or	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C	C4) Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	ed Soils (C6) Geomorphic Positio	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Re	elief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D	05)
Field Observations:			
Surface Water Present? Yes N	No X Depth (inches):		
Water Table Present? Yes N	No X Depth (inches):		
Saturation Present? Yes N	No X Depth (inches):	Wetland Hydrology Present?	Yes NoX_
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous	s inspections), if available:	
Remarks:			
Remarks.			

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
_						Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
4						Total Number of Dominant Species Across All Strata:	(B)
6						Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
7						Prevalence Index worksheet:	
				=Total Cover		Total % Cover of:	Multiply by:
Sapling/Shrub	Stratum (Plot size:	15')				OBL species	x 1 =
1						FACW species	x 2 =
2						FAC species	x 3 =
3.						FACU species	x 4 =
4						UPL species	x 5 =
_						Column Totals:	(A)(B)
6						Prevalence Index = B/A	\ =
7						Hydrophytic Vegetation Indic	ators:
			·	=Total Cover		1 - Rapid Test for Hydroph	ytic Vegetation
Herb Stratum	(Plot size: 5')				2 - Dominance Test is >50	%
1.						3 - Prevalence Index is ≤3.	01
2						4 - Morphological Adaptati data in Remarks or on a	ons ¹ (Provide supporting
1						Problematic Hydrophytic V	egetation ¹ (Explain)
6						¹ Indicators of hydric soil and we present, unless disturbed or pre	
7						Definitions of Vegetation Stra	
9.						Tree – Woody plants 3 in. (7.6 at breast height (DBH), regardl	
10						Sapling/shrub – Woody plants	s less than 3 in. DBH
11						and greater than or equal to 3.2	28 ft (1 m) tall.
12						Herb – All herbaceous (non-wo	oody) plants, regardless
				=Total Cover		of size, and woody plants less	than 3.28 ft tall.
Woody Vine S 1.	_					Woody vines – All woody vine height.	s greater than 3.28 ft in
_						Height.	
						Hydrophytic	
						Vegetation Present? Yes	No. Y
T				=Total Cover		riesent: res	No <u>X</u>
Domorko: (las	slude photo numbers he	oro or on a con-		- I Olai GUVEI			
Rock/Stone no	•	ere or on a separa	ate sneet.)				

Sampling Point:

Upl VGA-2

SOIL Sampling Point: Upl VGA-2

Profile Desc	ription: (Describe to Matrix	o the dep		ment the x Feature		or or co	nfirm the absence of i	ndicators.)		
(inches)	Color (moist)	%		%	Type ¹	Loc ²	Texture	Rem	orke	
(inches)	Color (moist)	70	Color (moist)	70	туре	LOC	rexture	Keiii	aiks	
				,						
					· <u> </u>					
1- 0.0							21			
	ncentration, D=Deple	etion, RM:	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		_=Pore Lining, M=M		
Hydric Soil I								r Problematic Hyd		
Histosol	(A1)		Dark Surface (S7)			2 cm Mud	ck (A10) (LRR K, L ,	MLRA 149B)	
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (L	.RR R,	Coast Pra	airie Redox (A16) (I	RR K, L, R)	
Black His	stic (A3)		MLRA 149B)			5 cm Mu	cky Peat or Peat (S	3) (LRR K, L, R)	
Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	49B) Polyvalue	e Below Surface (S8	B) (LRR K, L)	
	Layers (A5)		High Chroma S					k Surface (S9) (LRF		
	Below Dark Surface	(A11)	Loamy Mucky I					ganese Masses (F1		
	rk Surface (A12)	(/ (1)	Loamy Gleyed			· · · · · · · ·		• ,		
				,	2)			t Floodplain Soils (F		
	odic (A17)		Depleted Matrix	. ,					utside MLRA 145)	
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Sha	llow Dark Surface (F22)	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	kplain in Remarks)		
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F8	3)					
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLR	A 145)		d hydrology must be		
	, ,			•	, ,	•		s disturbed or problematic.		
Restrictive I	ayer (if observed):						dilloco	alotarboa or proble	mado.	
	Roc	ماد								
Type:	Roc	ĸ								
Depth (in	ches):	0					Hydric Soil Presen	t? Yes	No X	
Remarks:										
Remarks:										



Upland VGA near flag VGA-2 - View facing northeast



Upland VGA near flag VGA-2- Soils

SITE PHOTOGRAPHS

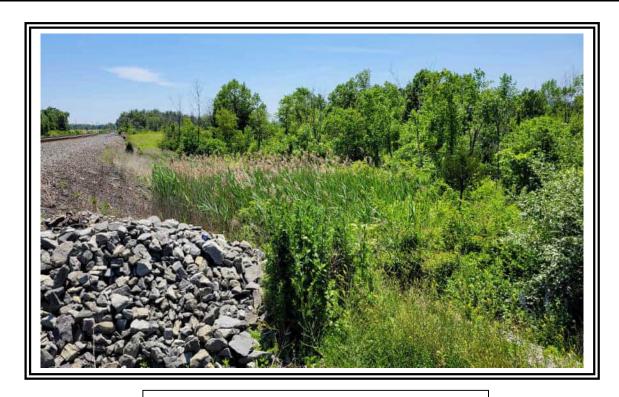
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Hannacroix Sampling Date: 12/1/21
Applicant/Owner: CHA	State: NY Sampling Point: PB-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37948	Long: -73.81795 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 No , Soil N , or Hydrology N significantly distur	
Are Vegetation N, Soil N, or Hydrology N naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland PB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) Water-Stained Leaves (I	B9) Surface Soil Cracks (B6) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) X Presence of Reduced Iron	
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: <u> 6 </u>
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	:0 Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, acrial priotos, pre	svious inspections), il avallable.
Remarks:	
Nonang.	

VEGETATION – Use scientific names of plants. Sampling Point: PB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species **FACW** species 110 x 2 = 1. Cornus sericea 30 **FACW** 220 Yes 2. FAC species 0 x 3 = 0 3. **FACU** species x 4 = 4. UPL species x 5 = 5. Column Totals: 110 220 (B) 6. Prevalence Index = B/A = 2.00 7. **Hydrophytic Vegetation Indicators:** 30 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point PB-2

Depth	ription: (Describe to Matrix	o the de		x ument ti ox Featur		ator or co	onfirm the absence of indica	ators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10yr 3/1	80	7.5yr 4/6	20			Loamy/Clayey	Prominent
6-14	10yr 2/1	65	7.5yr 4/6	35			Loamy/Clayey	Prominent
¹ Type: C=Co	oncentration, D=Deple	etion, RN	M=Reduced Matrix, I	MS=Mas	ked San	d Grains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for Prob	olematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		0) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	-	\	MI DA		edox (A16) (LRR K, L, R)
Black His			Thin Dark Surf					eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)
	Layers (A5)	(Λ11)	Loamy Mucky			KK, L)		ace (S9) (LRR K, L)
	Below Dark Surface rk Surface (A12)	(A11)	Loamy Gleyed Depleted Matri		.F∠ <i>)</i>			e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		X Redox Dark St	• •	-6)			TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	•			Red Parent Mat	
	edox (S5)		Redox Depres					ark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	•	,		Other (Explain i	
	face (S7)			,			<u> </u>	,
3Indicators of	i huduanhutia va gatati		uetlend budgelengen	ust be n		nlaaa diat	tumbed or problematic	
	ayer (if observed):	on and v	vettand hydrology mi	ust be pi	resent, u	niess aist	turbed or problematic.	
Type:	, (, .							
Depth (in	iches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								-



Wetland PB- View facing south/southwest



Wetland PB- Soils

SITE PHOTOGRAPHS

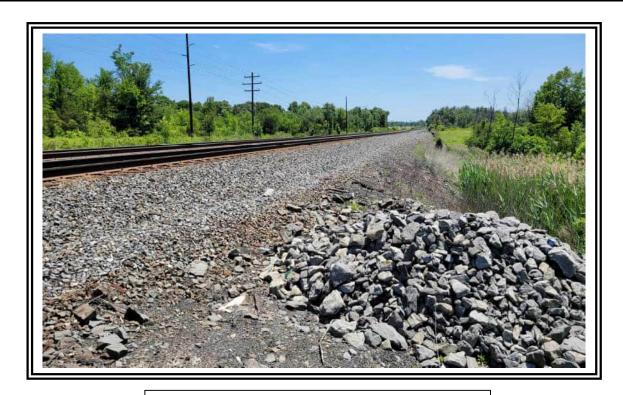
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: New Baltimore/Green Sampling Date: 6.20.22
Applicant/Owner: TDI	State: NY Sampling Point: PB Upl
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 50
Subregion (LRR or MLRA): LRR R Lat: 42,380534	Long: -73.818099 Datum: NAD83
Soil Map Unit Name: EnA, EnB - Elmridge very fine sandy loam	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 Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Railroad embankment.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Presence of Reduced Ir	<u> </u>
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 Remai	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No _X Depth (inches)	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
1	

VEGETATION – Use scientific names of plants. Sampling Point: PB Upl Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: 0 (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: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species 0 x 2 = FAC species 0 x 3 = 0 x 4 = 3. FACU species 10 4. UPL species 5 x 5 = 5. Column Totals: 15 (A) 6. Prevalence Index = B/A = 4.33 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% UPL Artemisia vulgaris Yes 3 - Prevalence Index is ≤3.01 5 4 - Morphological Adaptations¹ (Provide supporting 2. **FACU** Solidago canadensis Yes data in Remarks or on a separate sheet) 3. 5 Digitaria sanguinalis Yes **FACU** 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators 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 diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 15 =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 height. 2. Hydrophytic Vegetation Present? Yes ____ No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point PB Upl

		the dep				tor or co	nfirm the absence of indi	cators.)
•		0/				1 2	Taveluna	Damanka
Depth (inches)	Matrix Color (moist)	<u>%</u>		x Featur			Texture	Remarks
¹ Type: C=Co	 ncentration, D=Deple	tion. RM	=Reduced Matrix. N	 1S=Masl	 ked Sand	——— - I Grains.	 ² Location: PL=Po	re Lining, M=Matrix.
Hydric Soil In Histosol (Histic Epi Black His Hydroger Stratified Depleted Thick Dan Sandy Mi Sandy Gl Sandy Re Stripped Dark Surf	ndicators: A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	w Surface (S9) Sands (S Mineral of Matrix (x (F3) urface (F Surface (F Surface (F R K, L)	ce (S8) (I) (LRR R, 611) (LRF (F1) (LRF F2) (6) (F7)	_RR R, MLRA 14 R K, L) R K, L)	Indicators for Pro 2 cm Muck (A Coast Prairie 5 cm Mucky F Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	belematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (F22)
Type: _								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Version 7.0, 2	n is revised from Nort 2015 Errata. (http://ww of railroad ballast.							eld Indicators of Hydric Soils,



Upland PB- View facing south/southeast



Upland PB- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Hannacroix Sampling Date: 12/1/21
Applicant/Owner: CHA	State: NY Sampling Point: QB-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37770	Long: -73.81776 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 No , Soil Y , or Hydrology N significantly distur	
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Lludraphytic Verstelian Present?	In the Complet Avec
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area 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.) Wetland QB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres Oxidized Rhizospheres	
Drift Deposits (B3) X Presence of Reduced In	<u> </u>
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: 2
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	_

VEGETATION – Use scientific names of plants. Sampling Point: QB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species **FACW** species 100 x 2 = 1. Cornus sericea 20 **FACW** 200 Yes 2. FAC species 0 x 3 = 0 3. **FACU** species x 4 = 4. UPL species x 5 = 5. Column Totals: 100 200 (B) 6. Prevalence Index = B/A = 2.00 7. **Hydrophytic Vegetation Indicators:** 20 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 80 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point QB-2

		the de				ator or c	onfirm the absence of ind	icators.)
Depth	Matrix	0/		dox Featu		1 2	- .	Б
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks
0-6	10yr 3/1	80	7.5yr 4/6	20			Loamy/Clayey	Prominent
¹ Type: C=Co	 ncentration, D=Deple	tion RM	I=Reduced Matrix	_ 	kod San	d Grains	² Location: PL=Pc	ore Lining, M=Matrix.
Hydric Soil Ir		tion, raiv	I-Reduced Matrix	t, MO-Mas	ikca ban	u Orains.		oblematic Hydric Soils ³ :
Histosol (Polyvalue B	elow Surfa	ce (S8) (LRR R.		(10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 14		() (,		Redox (A16) (LRR K , L , R)
Black His			Thin Dark S	urface (S9) (LRR R	, MLRA		Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		High Chrom	a Sands (S	S11) (LR I	R K, L)	Polyvalue Be	low Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucl	ky Mineral	(F1) (LR	RK, L)	Thin Dark Sui	rface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gley	ed Matrix ((F2)		Iron-Mangane	ese Masses (F12) (LRR K, L, R)
Thick Dar	k Surface (A12)		Depleted Ma	atrix (F3)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
	ıcky Mineral (S1)		X Redox Dark		•			(TA6) (MLRA 144A , 145 , 149B)
	eyed Matrix (S4)		Depleted Da				Red Parent M	
Sandy Re			Redox Depr		8)			Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRR K, L)			Other (Explain	n in Remarks)
Dark Surf	ace (57)							
3Indicators of	hydrophytic vegetatic	n and w	etland bydrology	must be n	recent u	nless dist	turbed or problematic.	
	ayer (if observed):	iii and w	etiana nyarology	must be p	resent, u	illess dis	dibed of problematic.	
Type:	grave	l						
Depth (inc		6					Hydric Soil Present?	Vos V No
		0					Hydric 3011 Fresent?	Yes <u>X</u> No
Remarks:								



Wetland QB- View facing south/southwest



Wetland QB- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Hannacroix Sampling Date: 12/2/21						
Applicant/Owner: CHA	State: NY Sampling Point: RB-2						
nvestigator(s): Nick Dominic/Justin Williams Section, Township, Range:							
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:						
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37634	Long: -73.81756 Datum: NAD83						
Soil Map Unit Name:	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 No , Soil N , or Hydrology N significantly distur							
Are Vegetation N , Soil N , or Hydrology N naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.						
Lhidrahidi Vanddin Brandl	In the Country Anna						
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area 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.) Wetland RB							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)							
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)							
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 (Case							
<u> </u>	<u> </u>						
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 Remainder)							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches)	:						
Water Table Present? Yes X No Depth (inches)							
Saturation Present? Yes X No Depth (inches)	Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:						
Remarks:							
Tremaine.							

VEGETATION – Use scientific names of plants. Sampling Point: RB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** Fraxinus americana FACU 1. Yes Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 75.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species **FACW** species 70 x 2 = 1. 20 **FACW** 140 Cornus sericea Yes 2. FAC species 0 x3 =0 3. **FACU** species 40 x 4 = 160 4. UPL species x 5 = 5. Column Totals: 110 300 (B) 6. Prevalence Index = B/A = 2.73 7. **Hydrophytic Vegetation Indicators:** 20 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phragmites australis **FACW** X 3 - Prevalence Index is ≤3.0¹ Lythrum salicaria 30 **FACW** 4 - Morphological Adaptations¹ (Provide supporting 2 Yes data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 50 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation No_ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point RB-2

Color (moist) % Color (moist) % Type' Loc" Texture Remarks 0.16 10yr 3/1 75 7.5yr 5/4 25 Loamy/Clayey Prominent Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Histic Epipedon (A2) MLRA 149B) Histic Epipedon (A2) High Chroma Sands (S11) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F3) Thic Dark Surface (A12) Depleted Matrix (F3) Peledmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (S9) (LRR K, L) Sandy Gleyed Matrix (S4) Depleted Matrix (F3) Peledmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Redox (S5) Redox Dark Surface (F7) Redox Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dept (Explain in Remarks) Hydric Soil Present? Yes X No Remarks:	Depth	Matrix		Redox	x Featur	es			•
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A4) Histosol (A4) Histosol (A4) Histosol (A4) Histosol (A5) Histosol (A2) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A4) Histosol (A	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A3) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Histosol (A3) Histosol (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S3) (LRR K, L, R, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S3) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Cark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Dark Surface (F8) Sandy Redox (S5) Redox Dark Surface (F7) Redox Depressions (F8) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (T2) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (T9) Marl (F10) (LRR K, L) Dark Surface (T9) Dark Surface (T9) Marl (F10) (LRR K, L) Dark Surface (T9) Dark Surface (T9) Marl (F10) (LRR K, L) Dark Surface (T9) Dark Surface (T9) Marl (F10) (LRR K, L) Dark Surface (T9) Dar	0-16	10yr 3/1	75	7.5yr 5/4	25			Loamy/Clayey	Prominent
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Ma									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Ma		·							
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Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Ma									
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Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Ma									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Ma									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10								. <u></u> <u></u>	
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10	_								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10									
Histosol (A1)	¹ Type: C=Co	ncentration, D=Deplet	ion, RN	/I=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		
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) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Hydric Soil Present? Yes X No Thin Dark Surface (A16) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LR K, L) Polyvalue Below Surface (S9) (LR K, L) Polyvalue Below Surface (S9) (LR K, L) Polyvalue Below Surface (S9)	-								
Black Histic (A3)		` '				ce (S8) (LRR R,		
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) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149E) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Arrick Dark Surface (A12) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyale (S9) (LR K, L) Polyale (S9) (LR K, L) Polyale (S9) (LR K, L) Poly									
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (F7) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (F8) Wery Shallow Dark Surface (F22) Other (Explain in Remarks) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches): Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B Mesic Spodic (TA6) (MLRA 144A, 145, 149B Mesic Spodic (TA6) (MLRA 149B Mesic Spodic (TA6) (MLRA 144A, 145, 149B Mesic Spodic (TA6) (MLRA 1									
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sandy Surface (S7) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) John Surface (S7) Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Hydric Soil Present? Yes X No							R K , L)		
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Slindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Mesic Spodic (TA6) (MLRA 144A, 145, 149B, 149			A11)			F2)			
Sandy Gleyed Matrix (S4) X 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) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									
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) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									
Stripped Matrix (S6)									
Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No					•	8)			
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No				Marl (F10) (LR	R K , L)			Other (Explain	in Remarks)
Restrictive Layer (if observed): Type:	Dark Sur	face (S7)							
Restrictive Layer (if observed): Type:	31:	· · · · · · · · · · · · · · · · · · ·		4 4 1 4	4				
Type:			i and v	retiand hydrology mit	ist be p	resent, u	niess aisi	lurbed or problematic.	
Depth (inches): Hydric Soil Present? Yes X No		.ayer (ii observed):							
	-								
Remarks:	Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
	Remarks:								



Wetland RB- View facing south/southwest



Wetland RB- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Coxsackie/Green Sampling Date: 6.20.22					
Applicant/Owner: TDI	State: NY Sampling Point: QB & RB Upl					
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:					
	relief (concave, convex, none): Convex Slope %: 60					
Subregion (LRR or MLRA): LRR R Lat: 42.377848	Long: -73,817702 Datum: NAD83					
Soil Map Unit Name: EnA, EnB - Elmridge very fine sandy loam	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 Hydrology significantly distur						
Are Vegetation , Soil , or Hydrology naturally problems						
SUMMARY OF FINDINGS – Attach site map showing sam						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:					
Railroad embankment.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (<u> </u>					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) — Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aeria Diff Pagasite (B2) Stretch or Stre						
Presence of Reduced In	<u> </u>					
Algal Mat or Crust (B4) Recent Iron Reduction in This Much Surface (G7)						
Iron Deposits (B5) Thin Muck Surface (C7) Other (Figure in Property Control of the Control of						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches)						
Water Table Present? Yes No X Depth (inches)						
Saturation Present? Yes No _X Depth (inches)	Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						
Tremans.						

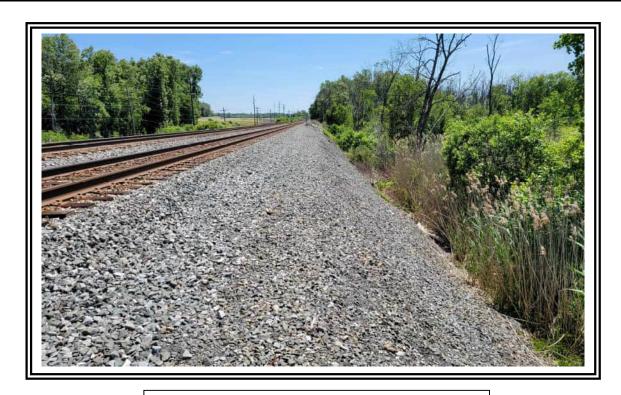
VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:0(A)
3 4				Total Number of Dominant Species Across All Strata:1 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
2				FACU species 0 x 4 = 0
1				UPL species 10 x 5 = 50
				Column Totals: 10 (A) 50 (B)
· -				
6.				Prevalence Index = B/A = 5.00
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Centaurea stoebe	10	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
Q				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11.		-		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	10	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30) 1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes No _ X _
4		=Total Cover		1100mil. 100 <u> </u>
Decreased the shade wheels are share to be a second to the share the same to t		_		
Remarks: (Include photo numbers here or on a separ	rate sneet.)			

Sampling Point: QB & RB Upl

SOIL Sampling Point QB & RB Upl

		o the de				tor or co	onfirm the absence of	findicators.)
Depth	Matrix			x Featur		. 2	- .	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
¹ Type: C=Co	oncentration, D=Deple	tion RN	M=Reduced Matrix N	 AS=Mas	ked Sand	Grains	² l ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		31.011, 1111	T TOUGOOG WIGHTIN, II	TO MIGO	nou ounc	Clambi		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		CC (OO) (I	LIXIX IX,		airie Redox (A16) (LRR K, L, R)
				•	\ /I DD D	MI DA 1		
— Black Hi			Thin Dark Surf					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		— High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			₹ K, L)		k Surface (S9) (LRR K, L)
	l Below Dark Surface	(A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		•			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)
	edox (S5)		Redox Depress	sions (F	8)			allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Ex	xplain in Remarks)
Dark Su	face (S7)							
³ Indicators o	hydrophytic vegetati	on and w	/etland hydrology mι	ust be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	nt? Yes No X
Remarks:	, -						-	
	m is revised from Nor	theentra	Land Northeast Pea	ional Su	nnlemen	Version	2.0 to include the NPC	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							73 Field Indicators of Frydric Solls,
	of railroad ballast.		acaaigeviinemeer		JOINE. 11	O/11100 1 11		



Upland QB- View facing south



Upland QB- Soils

SITE PHOTOGRAPHS



Upland RB- View facing south



Upland RB- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Green	County Grasslands- N	MP210.7 C	ity/County: Coxsackie/ Gr	eene	Sampling Date: 4/20/2023	
Applicant/Owner: CHPE				State:	 NY Sampling Point: G-GL-1-∪ _l	
Investigator(s): K. Weiskotte	n, K. Schumacher	s	ection, Township, Range:	Coxsackie		
Landform (hillside, terrace, etc	c.): Lake Plains	Loc	al relief (concave, convex,	none): Concave	Slope (%):	
Subregion (LRR or MLRA): LI	, RR R, MLRA 144B	-		73° 49' 04.32"	Datum:	
Soil Map Unit Name: Kingsbu		•	~ _		ification: None	
Are climatic / hydrologic condi			? Yes X No		n in Remarks.)	
Are Vegetation, Soil	• •	•		I Circumstances" p	·	
Are Vegetation , Soil				explain any answer		
				•	, important features, etc.	
Hydrophytic Vegetation Pres	ent? Yes	No_X_	Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?		NoX	
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland	d Site ID:		
HYDROLOGY						
Wetland Hydrology Indicate					cators (minimum of two required)	
Primary Indicators (minimum	of one is required; cr		(50)		oil Cracks (B6)	
Surface Water (A1)	-	Water-Stained Le	` '		Patterns (B10)	
1 — ` ` <i>'</i>	High Water Table (A2) Aquatic Fauna (B13)				Lines (B16)	
Saturation (A3) — Marl Deposits (B15) — Dry-Season Water Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C					on Water Table (C2)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (Caylish Bullows (C6)) Saturation Visible on Aerial Imagery (Caylish Bullows (C6))						
Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (Cs) Saturation Visible on Aerial Imagery (Cs) Saturation Visible on Aerial Imagery (Cs) Stunted or Stressed Plants (D1)						
I — ' ' '	-		uction in Tilled Soils (C6)		ic Position (D2)	
Algal Mat or Crust (B4) Iron Deposits (B5)	-	Thin Muck Surface			quitard (D3)	
Inundation Visible on Ae	rial Imagery (R7)	Other (Explain in			graphic Relief (D4)	
Sparsely Vegetated Con	• • • · · · · •	Outor (Explain	Nemano,		ral Test (D5)	
Field Observations:					di rest (20)	
Surface Water Present?	Yes No	X Depth (inches):				
Water Table Present?	Yes No					
Saturation Present?	Yes No			Hydrology Presen	it? Yes No_X_	
(includes capillary fringe)		<u> </u>		,		
Describe Recorded Data (str	eam gauge, monitorir	ng well, aerial photos,	previous inspections), if a	vailable:		
Remarks:						

VEGETATION – Use scientific names of plants. Sampling Point: G-GL-1-Up Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Species? Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15') x 1 = OBL species 1. FACW species x 2 = 2. FAC species x 3 = _ FACU species x 4 = UPL species x 5 = Column Totals: (B) (A) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% 50 FACU 3 - Prevalence Index is ≤3.0¹ Poa pratensis Yes 2. Solidago canadensis 5 No **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 3. Trifolium pratense No **FACU** 10 **FACU** No Problematic Hydrophytic Vegetation¹ (Explain) 4. Fragaria virginiana 15 No FACU 5. Taraxacum officinale ¹Indicators of hydric soil and wetland hydrology must 6. Plantago major 10 No FACU be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless 95 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: G-GL-1-Up

Profile Des	scription: (Describe	to the de	epth needed to docu	ment th	e indicat	or or con	firm the absence of indic	ators.)
Depth	Matrix		Redox	c Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/1	100					Loamy/Clayey	
 -								_
	_							
								_
¹ Type: C=0	Concentration, D=Dep	letion, RI	M=Reduced Matrix, C	S=Cove	red or Coa	ated Sand	d Grains. ² Location:	PL=Pore Lining, M=Matrix.
Hydric Soi	Indicators:						Indicators for Probl	ematic Hydric Soils ³ :
Histoso	ol (A1)		Polyvalue Below	Surface	e (S8) (LR	RR,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
—— Histic E	Epipedon (A2)		MLRA 149B)				Coast Prairie Re	dox (A16) (LRR K, L, R)
—— Black I	Histic (A3)		Thin Dark Surface	e (S9) (LRR R, N	ILRA 149	B) 5 cm Mucky Pea	at or Peat (S3) (LRR K, L, R)
—— Hydrog	gen Sulfide (A4)		High Chroma Sa	nds (S1	1) (LRR k	(, L)	Polyvalue Below	Surface (S8) (LRR K, L)
Stratific	ed Layers (A5)		Loamy Mucky M	ineral (F	1) (LRR I	(, L)	Thin Dark Surface	ce (S9) (LRR K, L)
	ed Below Dark Surfac	e (A11)	Loamy Gleyed M				Iron-Manganese	Masses (F12) (LRR K, L, R)
Thick [Dark Surface (A12)	, ,	Depleted Matrix		•		Piedmont Floods	olain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1)		Redox Dark Surf)			A6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		—— Depleted Dark S				Red Parent Mate	
	Redox (S5)		Redox Depression		•			rk Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRR	, ,			Other (Explain in	
	urface (S7)			,,				,
	unas (51)							
³ Indicators	of hydrophytic vegetat	ion and v	wetland hydrology mu	st be pre	esent unle	ess distur	bed or problematic	
	Layer (if observed):		rotalia nyarology ma	or bo pre	oont, and	oc dictar	T problematic.	
Type:	Layer (ii observed).							
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:								
							.0 to reflect the NRCS Field	d Indicators of Hydric Soils
version 7.0	March 2013 Errata. (h	nttp://www	v.nrcs.usda.gov/Interr	net/FSE_	_DOCUMI	ENTS/nrc	s142p2_051293.docx)	



Upland G-GL-1-Up



Upland G-GL-1-Up Soils

Supplemental Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Greene County Grasslands- MP 210.7 City/	/County: Coxsackie/ Greene Sampling Date: 4/21/2023
Applicant/Owner: CHPE	State: NY Sampling Point: G-GL-1-Wet
Investigator(s): K. Weiskotten, K. Schumacher Sect	ion, Township, Range: Coxsackie
Landform (hillside, terrace, etc.): Lake Plains Local re	relief (concave, convex, none): Concave Slope (%):
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 22' 29.97"	Long: 73° 49' 04.32" Datum:
Soil Map Unit Name: Kingsbury and Rhinebeck Soils	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 dist	
Are Vegetation , Soil , or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No I	Is the Sampled Area
	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leave	es (B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)) X Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Oc	dor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospher	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	ed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface ((C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	emarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes NoX Depth (inches):	
Saturation Present? Yes X No Depth (inches):	10 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	Sampling Point: <u>G-GL-1-Wet</u>
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus americana	25	Yes	<u>FACU</u>	Number of Dominant Species
2. Ulmus americana	15	Yes	FACW	That Are OBL, FACW, or FAC: 4 (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: 57.1% (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Lonicera tatarica	35	Yes	FACU	FACW species x 2 =
2. Berberis thunbergii	10	Yes	FACU	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
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	10	Yes	_FACW_	3 - Prevalence Index is ≤3.0 ¹
2. Lysimachia nummularia	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Lysimachia ciliata	5	Yes	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		<u> </u>		Herb – All herbaceous (non-woody) plants, regardless
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				1
3				Hydrophytic Vegetation
4				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

SOIL Sampling Point: G-GL-1-Wet

Profile De	escription: (Describe	to the de	epth needed to docu	ment th	e indicate	or or con	firm the absence o	of indicators.)
Depth	Matrix		Redox	c Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					Loamy/Clayey	
3-14	10YR 3/2	90	10YR 3/4	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Distinct redox concentrations
				_	_	_		
					_			
					<u> </u>			
				_	<u> </u>			
					_			
	-Concentration, D=Depoil Indicators:	letion, RI	M=Reduced Matrix, C	S=Cover	ed or Coa	ited Sand		r Problematic Hydric Soils ³ :
-	sol (A1)		Polyvalue Below	Surface	(S8) (LR	RR,		ck (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)		(, , , (,		airie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surfac	e (S9) (LRR R. W	LRA 149		cky Peat or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)		High Chroma Sa				· —	e Below Surface (S8) (LRR K, L)
	fied Layers (A5)		Loamy Mucky M					Surface (S9) (LRR K, L)
	• ` '	o (A11)				(, L)		` ' ' ' ' '
	eted Below Dark Surfac	e (A11)	Loamy Gleyed M		<u> </u>			ganese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)		Depleted Matrix					t Floodplain Soils (F19) (MLRA 149B)
	y Mucky Mineral (S1)		X Redox Dark Surf					odic (TA6) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark S	•	•			ent Material (F21)
	y Redox (S5)		Redox Depression	, ,				llow Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRR	K , L)			Other (Ex	xplain in Remarks)
Dark \$	Surface (S7)							
	s of hydrophytic vegeta re Layer (if observed):		vetland hydrology mu:	st be pre	esent, unle	ess distur	bed or problematic.	
Type:								
_	nches):						Hydric Soil Pre	sent? Yes X No
Remarks: This data t	form is revised from No	orthcentra	ıl and Northeast Regio	onal Sup	plement \	ersion 2	.0 to reflect the NRC	CS Field Indicators of Hydric Soils
version 7.0	0 March 2013 Errata. (l	nttp://www	v.nrcs.usda.gov/Interr	net/FSE_	_DOCUMI	ENTS/nrc	s142p2_051293.do	cx)



Wetland G-GL-1-Wet



Wetland G-GL-Wet - Soils

Supplemental Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	6	City/County: Coxsac	kie/Greene	Sampling Date: 9/7/23		
Applicant/Owner: TDI			State: NY	Sampling Point: RR-F&G Wet		
Investigator(s): C. Einstein		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve	x, none): Flat	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 42.369453		-73.0138331	Datum: NAD83		
Soil Map Unit Name: Elmridge very fine sand			NWI classification:			
	· · · · · · · · · · · · · · · · · · ·			-		
Are climatic / hydrologic conditions on the site		Yes x	-	explain in Remarks.)		
Are Vegetation, Soil, or Hydrold			nal Circumstances" pres			
Are Vegetation, Soil, or Hydrold	ogynaturally problemat	tic? (If needed	d, explain any answers ir	n Remarks.)		
SUMMARY OF FINDINGS – Attach s	site map showing samp	pling point locat	tions, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
	Yes X No	within a Wetland?		No		
	Yes X No	If yes, optional We				
Remarks: (Explain alternative procedures her						
(2.p.s s	то от а соралал търгъл,					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack			
Surface Water (A1)	Water-Stained Leaves (B	i9)	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 (C	or (C1) Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres or	-		on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	d Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in					
Iron Deposits (B5)	Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7)		(S)	Microtopographic F	` '		
Sparsely Vegetated Concave Surface (B8	3)		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):	Wetlan	d Hydrology Present?	Yes <u>X</u> No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						
Nonano.						

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				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				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		•		OBL species 50 x 1 = 50
1				FACW species 75 x 2 = 150
2				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 125 (A) 200 (B)
6		-		Prevalence Index = B/A = 1.60
7				Hydrophytic Vegetation Indicators:
<i>1</i> .		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		- Total Gover		X 2 - Dominance Test is >50%
Phalaris arundinacea	70	Voc	FACW	X 3 - Prevalence Index is ≤3.0 ¹
	50	Yes Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
Lythrum salicaria				data in Remarks or on a separate sheet)
3. Fraxinus pennsylvanica4.	5	No No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				The Person of Broke's and broken distributed and property
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	125	=Total Cover	,	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2				Hydrophytic
3.		· ——		Hydrophytic Vegetation
4.		Total Cayor		Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separate or or on a separate or	rate sheet.)			

Sampling Point: RR-F&G Wet

SOIL Sampling Point RR-F&G Wet

Depth	Matrix		-	x Featur			onfirm the absence o	i indicators.)	
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Re	emarks
0-7	10YR 3/2	90	10YR 3/6	10	<u>C</u>	PL	Sandy	Prominent red	dox concentrations
7-15	10YR 5/3	70	10YR 4/6	30	C	<u>M</u>	Sandy	Distinct redo	ox concentrations
		<u> </u>			<u> </u>	_			
		_			<u> </u>				
		_							
		<u> </u>			<u> </u>	_			
- '	oncentration, D=Dep	letion, RM	M=Reduced Matrix, N	IS=Mas	ked Sand	Grains.		PL=Pore Lining, M	
Hydric Soil I Histosol Histic Ep			Dark Surface (ce (S8) (I	LRR R,	2 cm Mu	or Problematic H uck (A10) (LRR K rairie Redox (A16)	, L, MLRA 149B)
Black Hi			MLRA 149B)		\	MUDAA		-	(S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		Thin Dark Surfa High Chroma S					ie Below Surface rk Surface (S9) (L	
	Below Dark Surface	e (A11)	Loamy Mucky I			-			(F12) (LRR K, L, R)
	ark Surface (A12)	,,,,,	Loamy Gleyed			, _ /		=	s (F19) (MLRA 149B)
	oodic (A17)		Depleted Matrix		/) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		- 6)			allow Dark Surfac	
-	lucky Mineral (S1)		Depleted Dark					xplain in Remarks	
	leyed Matrix (S4)		Redox Depress		` '			•	,
X Sandy R			Marl (F10) (LR)		,		³ Indicato	ors of hydrophytic	vegetation and
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)	wetlar	nd hydrology must	t be present,
Restrictive I	_ayer (if observed):						unies	s disturbed or prob	plematic.
Type:									
Depth (ir	nches):						Hydric Soil Prese	nt? Yes_	X No
Remarks:									



Wetland RR-F & G - View facing South



Wetland RR-F & G - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	÷6	City/County: Coxsac	kie/Greene	Sampling Date: 9/7/23		
Applicant/Owner: TDI		·	State: NY	Sampling Point: RR-F&G Up		
Investigator(s): C. Einstein		Section, Tov	wnship, Range:			
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve		Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 42.369453		-73.0138331	Datum: NAD83		
Soil Map Unit Name: Elmridge very fine sand			NWI classification			
·	· · · · · · · · · · · · · · · · · · ·			-		
Are climatic / hydrologic conditions on the site		Yes x	-	o, explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			·	sent? Yes x No		
Are Vegetation, Soil, or Hydrol	' <u></u> '		l, explain any answers i	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	ions, transects, ii	mportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar				
Hydric Soil Present?	Yes No X	within a Wetland?		No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We				
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
	• • •					
I						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed check all that apply)		Surface Soil Crack			
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns	, ,		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron					
Algal Mat or Crust (B4)	Recent Iron Reduction in					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)) Other (Explain in Remark	(s)	Microtopographic	Relief (D4)		
Sparsely Vegetated Concave Surface (B	3 8)		FAC-Neutral Test	(D5)		
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _X		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
				_		
Remarks:						

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
· .				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 33.3% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
				FACW species 10 x 2 = 20
				FAC species 20 x 3 = 60
	'			FACU species 75 x 4 = 300
				UPL species 0 x 5 = 0
				Column Totals: 105 (A) 380 (B
				Prevalence Index = B/A = 3.62
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%
Glechoma hederacea	50	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Plantago lanceolata	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
. Taraxacum officinale	10	No	FACW	data in Remarks or on a separate sheet)
. Setaria pumila	20	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
. Lotus corniculatus	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Harb All barbassaya (nan wasdy) planta ragardlas
	105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
				Washings Allowards in a greatenth or 2 20 ft.
Voody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in height.
Voody Vine Stratum (Plot size: 30')				
	_			
·				Hydrophytic
				Vegetation
·		=Total Cover		

SOIL Sampling Point RR-F&G Up

	ription: (Describe to	the de				tor or co	onfirm the absence of	findicators.)			
Depth	Matrix			x Featur		. 2	_				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks		
											_
											_
· · · · · · · · · · · · · · · · · · ·	-										
1	 _						2			-	
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	1S=Masi	ked Sand	Grains.		L=Pore Lining		-	
Hydric Soil In								or Problemati	-		
Histosol (Dark Surface ((0.0) (ck (A10) (LRF)
	pedon (A2)		Polyvalue Belo		ce (S8) (I	RR R,		airie Redox (A			
Black His			MLRA 149B					cky Peat or P			R)
	Sulfide (A4)		Thin Dark Surf					e Below Surfa			
	Layers (A5)		High Chroma S					k Surface (S9			
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		ganese Mass			
	k Surface (A12)		Loamy Gleyed		F2)			t Floodplain S			
	odic (A17)		Depleted Matri					ent Material (F			145)
-	A 144A, 145, 149B)		Redox Dark Su					allow Dark Sur			
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Rema	arks)		
	eyed Matrix (S4)		Redox Depress		3)		3				
Sandy Re	` '		Marl (F10) (LR					rs of hydrophy	_		
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) (ML F	RA 145)		d hydrology m			
							unless	disturbed or p	oroblematic).	
	ayer (if observed):										
Type:	Grave	el									
Depth (in	ches):	0					Hydric Soil Preser	nt? Ye	es	No X	_
Remarks:											
Gravel roadsi	de										



Upland RR-F & G - View facing South



Upland RR-F & G - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21
Applicant/Owner: CHA	State: NY Sampling Point: SB-1
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37469	Long: -73.81733 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 No , Soil Y , or Hydrology N significantly disturl	
Are Vegetation N, Soil N, or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes X No Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland SB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Weter Steined Legyes (6)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (IX High Water Table (A2) Aquatic Fauna (B13)	B9) Drainage Patterns (B10) Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (·
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) X Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	· <u>2</u>
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre	inspections), il avaliable.
Remarks:	
Nonana.	

VEGETATION – Use scientific names of plants. Sampling Point: SB-1 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species 1. **FACW** species 60 x 2 = 120 2. FAC species 0 x 3 = 0 3. **FACU** species x 4 = 4. **UPL** species x 5 = 5. Column Totals: 115 175 (B) 6. Prevalence Index = B/A = 1.52 7. **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Carex lupulina OBL X 3 - Prevalence Index is ≤3.0¹ Lythrum salicaria 60 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting 2 data in Remarks or on a separate sheet) 35 3. Typha latifolia Yes OBL 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators 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. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 115 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point SB-1

(inches) 0-4			Redox	x Featur				
0-4	Color (moist) %	Color	(moist)	%	Type ¹	Loc ²	Texture	Remarks
	10yr 3/1 9 ²	4 7.5	yr 5/4	6			Loamy/Clayey	Prominent
		<u></u>						
_		_						
		_						
Tunas G=Gana	entrotion D=Deplotion	- DM-Dadua	ad Matrix N			- Crains	² l postion.	L=Pore Lining, M=Matrix.
Hydric Soil Ind	entration, D=Depletion	, KIVI-Reduce	o Mairix, N	/IS-IVIAS	keu Sani	ı Granis.		or Problematic Hydric Soils ³ :
Histosol (A1		Poly	value Belo	w Surfac	ce (S8) (RRR		ick (A10) (LRR K, L, MLRA 149B)
Histic Epipe	,		ILRA 149B		30 (00) (rairie Redox (A16) (LRR K, L, R)
Black Histic			n Dark Surfa		(LRR R	, MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
— Hydrogen S			n Chroma S					ie Below Surface (S8) (LRR K, L)
Stratified La			my Mucky I					rk Surface (S9) (LRR K, L)
Depleted Be	elow Dark Surface (A11	1)Loa	my Gleyed	Matrix (F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Dark	Surface (A12)	X Dep	leted Matri	x (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149 E
Sandy Mucl	ky Mineral (S1)	Red	lox Dark Su	ırface (F	6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
	red Matrix (S4)	Dep	leted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy Redo			lox Depress	•	3)			allow Dark Surface (F22)
Stripped Ma		Mar	l (F10) (LR	RK, L)			Other (E	xplain in Remarks)
Dark Surfac	ce (S7)							
31								
	drophytic vegetation a	na wetiana ny	rarology mu	ust be pr	esent, ui	ness alst	urbed or problematic.	
Type:	ver (if observed): Gravel							
								10 Y Y N
Depth (inch	es): 4		ı				Hydric Soil Prese	nt? Yes_X_ No



Wetland SB- View facing south



Wetland SB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

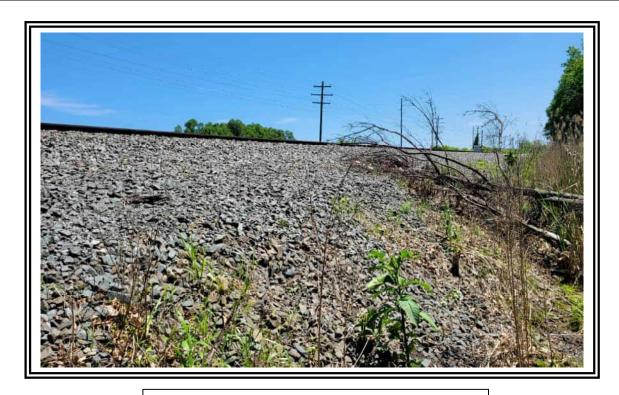
WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Coxsackie/Green Sampling Date: 6.20.22
Applicant/Owner: TDI	State: NY Sampling Point: SB Upl
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 42,373904	Long: -73.817199 Datum: NAD83
Soil Map Unit Name: KrA, KrB - Kingsbury and Rhinebeck soils	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 Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Railroad embankment.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor ((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 Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks)Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	: <u> </u>
Water Table Present? Yes No X Depth (inches):	·
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: SB Upl Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 33.3% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species 0 x 2 = FAC species 5 x 3 = 15 x 4 = 4 3. FACU species 4. UPL species 0 x 5 = 5. Column Totals: 9 (A) 6. Prevalence Index = B/A = 3.44 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 2 - Dominance Test is >50% Setaria pumila Yes FAC 3 - Prevalence Index is ≤3.01 2 4 - Morphological Adaptations¹ (Provide supporting 2. **FACU** Asclepias purpurascens Yes data in Remarks or on a separate sheet) 3. 2 Parthenocissus quinquefolia Yes **FACU** 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators 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 diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic Vegetation Present? Yes ____ No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point SB Upl

		the dep				tor or co	nfirm the absence of indi	cators.)
•		0/				1 2	Taveluna	Damanka
Depth (inches)	Matrix Color (moist)	<u>%</u>		x Featur			Texture	Remarks
¹ Type: C=Co	 ncentration, D=Deple	tion. RM	=Reduced Matrix. N	 1S=Masl	 ked Sand	——— - I Grains.	 ² Location: PL=Po	re Lining, M=Matrix.
Hydric Soil In Histosol (Histic Epi Black His Hydroger Stratified Depleted Thick Dan Sandy Mi Sandy Gl Sandy Re Stripped Dark Surf	ndicators: A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	w Surface (S9) Sands (S Mineral of Matrix (x (F3) urface (F Surface (F Surface (F R K, L)	ce (S8) (I) (LRR R, 611) (LRF (F1) (LRF F2) (6) (F7)	_RR R, MLRA 14 R K, L) R K, L)	Indicators for Pro 2 cm Muck (A Coast Prairie 5 cm Mucky F Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	belematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (F22)
Type: _								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Version 7.0, 2	n is revised from Nort 2015 Errata. (http://ww of railroad ballast.							eld Indicators of Hydric Soils,



Upland SB- View facing southeast



Upland SB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21
Applicant/Owner: CHA	State: NY Sampling Point: TB-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37188	Long: -73.81696 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 No , Soil N , or Hydrology N significantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling 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.) Wetland TB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Drift Deposits (B3) Sediment Deposits (B2) X Presence of Reduced In	
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in	· ,
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	:
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	: 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: TB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species 1. **FACW** species 135 x 2 = 270 2. FAC species 0 x 3 = 0 3. **FACU** species x 4 = 4. **UPL** species x 5 = 5. Column Totals: 135 270 (B) 6. Prevalence Index = B/A = 2.00 7. **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phalaris arundinacea **FACW** X 3 - Prevalence Index is ≤3.0¹ 40 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting 2 Lythrum salicaria data in Remarks or on a separate sheet) 3. Onoclea sensibilis 35 Yes **FACW** 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators 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. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 135 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point TB-2

Profile Description: (Describe to the de				tor or co	onfirm the absence of inc	dicators.)
Depth Matrix		x Feature		1.2.2	Tautura	Damarka
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks
0-16 10yr 3/1 85	10yr 7/8	15			Loamy/Clayey	Prominent
				— .		
1- 0.0					2 51. 5	
¹ Type: C=Concentration, D=Depletion, RN	/I=Reduced Matrix, №	/IS=Mask	ced Sand	I Grains.		ore Lining, M=Matrix. roblematic Hydric Soils ³ :
Hydric Soil Indicators: Histosol (A1)	Polyvalue Belo	w Surfac	o (S8) (I	DD B		roblematic Hydric Soils*: A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B		,e (00) (.	-IXIX IX,		e Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa	,	(LRR R,	MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S					elow Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky I					urface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed		- 2)			ese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	X Depleted Matrix					podplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su	•	•			c (TA6) (MLRA 144A, 145, 149B)
Sandy Redey (S5)	Depleted Dark					Material (F21)
Sandy Redox (S5) Stripped Matrix (S6)	Redox Depress Marl (F10) (LR		;)			v Dark Surface (F22) iin in Remarks)
Dark Surface (S7)	IVIAII (F 10) (LIN	K N, ∟)			Otilei (Expla	III III Remarks)
Bark Guriace (51)						
³ Indicators of hydrophytic vegetation and v	vetland hydrology mu	ust b <u>e pre</u>	esen <u>t, ur</u>	ıless <u>dist</u> ı	urbed or problematic.	
Restrictive Layer (if observed):						
Туре:					1	
Depth (inches):					Hydric Soil Present?	Yes X No
Remarks:						



Wetland TB- View facing west/southwest



Wetland TB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21							
Applicant/Owner: CHA	State: NY Sampling Point: UB-2							
Investigator(s): Nick Dominic/Justin Williams	nic/Justin Williams Section, Township, Range:							
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:							
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.37046	Long: -73.81694 Datum: NAD83							
Soil Map Unit Name:	NWI classification: PSS							
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)							
Are Vegetation No , Soil N , or Hydrology N significantly distur	rbed? Are "Normal Circumstances" present? Yes X No							
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sam	ipling 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.) Wetland UB								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
X Surface Water (A1) Water-Stained Leaves (I								
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Drift Deposits (B3) Sediment Deposits (B2) X Presence of Reduced In								
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in	· ,							
Iron Deposits (B5) Thin Muck Surface (C7)								
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar								
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:	<u> </u>							
Surface Water Present? Yes X No Depth (inches):	: 3							
Water Table Present? Yes X No Depth (inches):								
Saturation Present? Yes X No Depth (inches):	: 2 Wetland Hydrology Present? Yes X No							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:							
Remarks:								

VEGETATION – Use scientific names of plants. Sampling Point: UB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 75.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15 OBL species **FACW** species 80 x 2 = 1. **FACW** 160 Cornus sericea Yes 2. **FACU** FAC species 0 x3 =0 Lonicera 30 3. FACU species x 4 = 120 4. **UPL** species x 5 = 5. Column Totals: 110 280 (B) 6. Prevalence Index = B/A = 2.55 7. **Hydrophytic Vegetation Indicators:** 70 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phalaris arundinacea **FACW** X 3 - Prevalence Index is ≤3.0¹ Lythrum salicaria 20 **FACW** 4 - Morphological Adaptations¹ (Provide supporting 2 Yes data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 40 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point UB-2

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Loamy/Clayey Prominent Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coaction: PL=Pore Lining, M=Matrix. Thickost (A1)	Depth	Matrix		=	k Featur			onfirm the absence of indi	,
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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix.	0-16	10yr 3/1	75	7.5yr 5/4	25			Loamy/Clayey	Prominent
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Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Juniocators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No			(11)			F2)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No		· ·							
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) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No					-				
Stripped Matrix (S6)									
Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No					•	8)			
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No				Marl (F10) (LR l	R K, L)			Other (Explain	i in Remarks)
Restrictive Layer (if observed): Type:	Dark Sur	face (S7)							
Restrictive Layer (if observed): Type: Hydric Soil Present? Yes X No	31:	·			4				
Type:			and w	retiand hydrology mu	ist be p	resent, u	niess aisi	turbed or problematic.	
Depth (inches): Hydric Soil Present? Yes X No		.ayer (ii observed):							
	-								
Remarks:	Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
	Remarks:								



Wetland UB- View facing west



Wetland UB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Coxsackie/Green Sampling Date: 6.20.22					
Applicant/Owner: TDI	 State: NY Sampling Point: тв & ив ири					
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:					
- ' -	relief (concave, convex, none): Convex Slope %: 35					
Subregion (LRR or MLRA): LRR R Lat: 42.37204	Long: -73.816983 Datum: NAD83					
Soil Map Unit Name: KrA, KrB - Kingsbury and Rhinebeck soils	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year?						
Are Vegetation, Soil, or Hydrologysignificantly distur						
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
Railroad embankment.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres Diff Personne of Bedward In						
Drift Deposits (B3) Presence of Reduced In						
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Surface (C7)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches)	ι.					
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	evious inspections), if available:					
Remarks:						

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:1(A)
3 4				Total Number of Dominant Species Across All Strata:3(B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:33.3%(A/B)
7		<u> </u>		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
2				FACU species 10 x 4 = 40
1				UPL species 0 x 5 = 0
5				Column Totals: 20 (A) 70 (B)
				Prevalence Index = B/A = 3.50
6				Hydrophytic Vegetation Indicators:
<i>'</i>		=Total Cover		
Harla Christians (Dish size) 5		_ Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	40	.,	E4.0	2 - Dominance Test is >50%
1. Equisetum arvense	10	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Ambrosia artemisiifolia	5	Yes	<u>FACU</u>	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Solidago canadensis	5	Yes	<u>FACU</u>	data in Remarks of on a separate sneet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	20	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tall.
Woody Vine Stratum (Plot size: 30)		-		
				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				Hydrophytic
3				Vegetation
4				Present?
		_=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: TB & UB Upl

SOIL Sampling Point TB & UB Upl

		the dep				tor or co	nfirm the absence of ind	licators.)
		0/				1 2	Tayduma	Domonika
Depth (inches)	Matrix Color (moist)	%		x Featur			Texture	Remarks
	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	l Grains.		ore Lining, M=Matrix.
Black His Hydroger Stratified Depleted Thick Dai Sandy Mi Sandy Gl Sandy Re Stripped Dark Surf	ipedon (A2) itic (A3) in Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Bands (S Mineral Matrix (x (F3) Inface (F Surface Sions (F8 R K, L)	(LRR R, 611) (LRF (F1) (LRF F2) (6) (F7)	, MLRA 1: R K, L) R K, L)	2 cm Muck (/ Coast Prairie 49B) 5 cm Mucky Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent M Very Shallow Other (Explain	roblematic Hydric Soils ³ : A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) Relow Surface (S8) (LRR K, L) Urface (S9) (LRR K, L) Rese Masses (F12) (LRR K, L, R) Rodplain Soils (F19) (MLRA 149B) C (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (F22) In in Remarks)
	hydrophytic vegetation ayer (if observed):	on and we	stiand nydrology mu	ist be pr	esent, ur	iless disti	irbed or problematic.	
Type:	ayer (ii observed).							
Depth (in	ches):						Hydric Soil Present?	Yes No _X_
Version 7.0, 2	n is revised from Nori 2015 Errata. (http://w. of railroad ballast.							ield Indicators of Hydric Soils,



Upland TB- View facing north



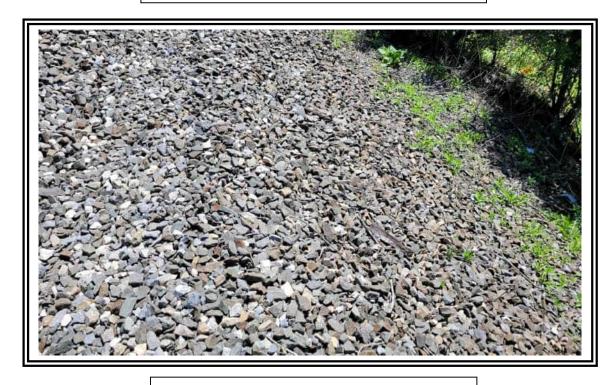
Upland TB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS



Upland UB- View facing south



Upland UB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	6	City/County: Coxsac	:kie/Greene	Sampling Date: 9/6/23		
Applicant/Owner: TDI			State: NY	Sampling Point: RR-A-1 Wet		
Investigator(s): C. Einstein		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve	ex, none): Ditch	Slope %: 1		
Subregion (LRR or MLRA): LRR R	Lat: 42.370936		-73.813306	Datum: NAD83		
Soil Map Unit Name: Shaker very fine sandy			NWI classification:	PEM		
Are climatic / hydrologic conditions on the site		Yes_x		explain in Remarks.)		
	•	·	nal Circumstances" prese			
Are Vegetation, Soil, or Hydrole	· · · · · · · · · · · · · · · · · · ·					
Are Vegetation, Soil, or Hydrolo			d, explain any answers in	,		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	tions, transects, ım	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
	Yes X No	within a Wetland		No		
•	Yes X No	If yes, optional We				
Remarks: (Explain alternative procedures her	re or in a separate report.)		_			
HYDROLOGY						
Wetland Hydrology Indicators:				ninimum of two required)		
Primary Indicators (minimum of one is require	• • • • •		Surface Soil Cracks	, ,		
Surface Water (A1)	Water-Stained Leaves (B	i 9)	Drainage Patterns (I	·		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
x Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C			
Sediment Deposits (B2)	Oxidized Rhizospheres or	-		n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	, ,	Stunted or Stressed			
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilleu Suiis (Cu)	x Geomorphic Positio Shallow Aquitard (D			
Inundation Visible on Aerial Imagery (B7)		(c)	Microtopographic Ro			
Sparsely Vegetated Concave Surface (B8		.5)	X FAC-Neutral Test (
Field Observations:	<u>''</u>		X I AO NOGIGI 1031 (2	73)		
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes x	No Depth (inches):	4 Wetlan	d Hydrology Present?	Yes X No		
(includes capillary fringe)	Dopur (mones).		a riyarology r rocon	100 / 1.0		
Describe Recorded Data (stream gauge, mon	nitoring well, aerial photos, prev	vious inspections), if	available:			
· -		•				
Remarks:			_			

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
		<u> </u>		Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
		· .		Species Across All Strata: 2 (B)
		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
andinar/Chaula Chartura (Diet sine) 451		- Total Cover		
apling/Shrub Stratum (Plot size: 15')				OBL species 50 x 1 = 50
				FACW species 20 x 2 = 40
				FAC species 40 x 3 = 120
·		·		FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 110 (A) 210 (B
·				Prevalence Index = B/A =1.91
. <u> </u>				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
. Phragmites australis	20	No	FACW	X 3 - Prevalence Index is ≤3.0 ¹
. Typha angustifolia	30	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
. Aster dumosis	30	Yes	FAC	data in Remarks or on a separate sheet)
				Duchlana stia I hadronka tia Magastatian ¹ (Eurolain)
. Lythrum salicaria	20	No No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
. Toxicodendron radicans	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
<u></u> .				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles:
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')		•		
·				Woody vines – All woody vines greater than 3.28 ft in height.
	1			Hydrophytic
·				Vegetation
·				_
		=Total Cover		Present?

SOIL Sampling Point RR-A-1 Wet

	ription: (Describe to	o the de	-			ator or co	onfirm the absence o	f indicators.)	
Depth	Matrix			ox Featur		. 2			
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
0-5	10YR 2/1	100					Loamy/Clayey		
5-16	10YR 5/1	60	5YR 5/6	40	С	М	Loamy/Clayey	Prominent redox concentrations	
			-						
¹ Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix,	MS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil In								or Problematic Hydric Soils ³ :	
Histosol (•		Dark Surface		(00) (uck (A10) (LRR K, L, MLRA 149B)	
Black His	pedon (A2)		Polyvalue Be MLRA 149		ce (58) (LKK K,		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)		Thin Dark Su	,	(LRR R	. MLRA 1		ue Below Surface (S8) (LRR K, L)	
	Layers (A5)		High Chroma					rk Surface (S9) (LRR K, L)	
	Below Dark Surface	(A11)	Loamy Mucky			-		nganese Masses (F12) (LRR K, L, R)	
Thick Dar	rk Surface (A12)		Loamy Gleye	d Matrix (F2)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)	
Mesic Sp	odic (A17)		X Depleted Mat	rix (F3)				rent Material (F21) (outside MLRA 145)	
-	A 144A, 145, 149B)		Redox Dark S					allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dar				Other (E	Explain in Remarks)	
Sandy Gi	eyed Matrix (S4)		Redox Depre Marl (F10) (L		8)		³ Indicate	ors of hydrophytic vegetation and	
	Matrix (S6)		Red Parent M		21) (ML F	RA 145)		nd hydrology must be present,	
					/ (,	unless disturbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No	
Remarks:							•		
Gravel should	ler and paved road								



Wetland RR-A- View facing South



Wetland RR-A - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	c	City/County: Coxsacl	kie/Greene	Sampling Date: 9/6/23			
Applicant/Owner: TDI			State: NY	Sampling Point: RR-A-1 Up			
Investigator(s): C. Einstein		Section, Tov	vnship, Range:				
Landform (hillside, terrace, etc.):	Local rel	lief (concave, conve		Slope %: 1			
Subregion (LRR or MLRA): LRR R	Lat: 42.370936		-73.813306	Datum: NAD83			
Soil Map Unit Name: Shaker very fine sandy loa			NWI classification:	Datum. 1471500			
				Into the Demonstra			
Are climatic / hydrologic conditions on the site typ	·	Yes x	·	explain in Remarks.)			
Are Vegetation, Soil, or Hydrology			nal Circumstances" prese				
Are Vegetation, Soil, or Hydrology	ynaturally problemation	c? (If needed	l, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach sit	te map showing samp	ling point locat	ions, transects, im	portant features, etc.			
Hydrophytic Vegetation Present? Ye	es No X	Is the Sampled Ar	ea	1			
Hydric Soil Present? Ye		within a Wetland?		No X			
Wetland Hydrology Present? Ye	es No X	If yes, optional Wet	tland Site ID:				
Remarks: (Explain alternative procedures here	or in a separate report.)						
i i	·						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil Cracks				
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (` ,			
High Water Table (A2)	Aquatic Fauna (B13)	•,	Moss Trim Lines (B				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1	(C1) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on	• , ,		n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	, ,			
Algal Mat or Crust (B4)	Recent Iron Reduction in T	Tilled Soils (C6)	Geomorphic Positio				
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	·			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	3)	Microtopographic R				
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (I	D5)			
Field Observations:							
	No x Depth (inches):						
	No x Depth (inches):	Wetler	- Uladas Isaa Dunnanii	Van Na V			
	No x Depth (inches):	wetiand	d Hydrology Present?	Yes No _X			
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	oring well parial photos previ	ious inspections) if	ovojloblo:				
Describe Necolded Data (stream gauge, monte	ming well, actial photos, provi	ious irispections, ir c	avaliable.				
Remarks:							

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata:(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species0 x 1 =0
1.				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.		· .		FACU species 90 x 4 = 360
4.		•		UPL species 0 x 5 = 0
				Column Totals: 100 (A) 390 (B)
				Prevalence Index = B/A = 3.90
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Harb Stratum (Distaire) E'		= Total Cover		— · · · · · · · · · · · · · · · · · · ·
Herb Stratum (Plot size: 5')	00	V	FAOU	2 - Dominance Test is >50%
1. Galium aparine	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Trifolium pratense	50	Yes	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Daucus carota	10	No	FAC	data in Remarks of on a separate sneet)
4. Plantago lanceolata	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Cichorium intybus</u>6.	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		· · · · · · · · · · · · · · · · · · ·		Definitions of Vegetation Strata:
8.				·
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size:) 1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No _ X _
T		=Total Cover		
		-		<u> </u>
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point: RR-A-1 Up

SOIL Sampling Point RR-A-1 Up

	ription: (Describe to	the de				tor or co	onfirm the absen	ce of indic	ators.)		
Depth	Matrix			x Featur		. 2	_		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
¹ Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	l Grains.			e Lining, M=Ma		
Hydric Soil I	ndicators:						Indicato	ors for Prob	blematic Hydri	c Soils ³ :	
Histosol ((A1)		Dark Surface (2 cr	n Muck (A1	0) (LRR K, L, I	ILRA 149B))
Histic Ep	pedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	Coa	st Prairie R	edox (A16) (LF	kR K, L, R)	
Black His	tic (A3)		MLRA 149B))			5 cr	n Mucky Pe	eat or Peat (S3)	(LRR K, L,	R)
Hydroger	Sulfide (A4)		Thin Dark Surfa				49B) Poly	value Belov	w Surface (S8)	(LRR K, L)	
Stratified	Layers (A5)		High Chroma S	Sands (S	311) (LRF	R K, L)	Thir	Dark Surfa	ace (S9) (LRR	K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) (LRI	R K, L)	Iron	-Manganes	e Masses (F12) (LRR K, L,	(R)
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (F2)		Pied	dmont Flood	dplain Soils (F1	9) (MLRA 14	49B)
Mesic Sp	odic (A17)		Depleted Matrix	x (F3)			Red	Parent Ma	terial (F21) (o u	tside MLRA	145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Ver	y Shallow D	ark Surface (F	22)	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Oth	er (Explain i	in Remarks)		
Sandy GI	eyed Matrix (S4)		Redox Depress	sions (F	8)						
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Ind	icators of hy	ydrophytic vege	etation and	
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	RA 145)	W	etland hydro	ology must be i	present,	
							uı	nless disturl	bed or problem	atic.	
Restrictive L	ayer (if observed):										
Type:	Road and grave	el should	ler								
Depth (in	ches):	0					Hydric Soil Pr	esent?	Yes	No X	
							,				
Remarks:											
Graver should	ler and paved road										



Upland RR-A & Soils - View facing South

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	6 City/	/County: Coxsackie	e/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI			State: NY	Sampling Point: RR-L-6 Wet
Investigator(s): C. Einstein		Section, Town	ship, Range:	<u> </u>
Landform (hillside, terrace, etc.):	Local relief	(concave, convex,		Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.366714	Long: -7		Datum: NAD83
Soil Map Unit Name: Elmridge very find sandy				
	•			
Are climatic / hydrologic conditions on the site t		Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydrold			Circumstances" prese	
Are Vegetation, Soil, or Hydrold	ogynaturally problematic?	(If needed, e	explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing samplin	g point location	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is	the Sampled Area	<u></u>	
		ithin a Wetland?	Yes X	No
•	Yes X No If y	yes, optional Wetla		
Remarks: (Explain alternative procedures her	re or in a separate report.)			
(=-17-12	,			
	<u></u>			
HYDROLOGY				
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	<u></u>	x Drainage Patterns ((B10)
High Water Table (A2)	Aquatic Fauna (B13)	_	Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)	_	Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	_	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv	_		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C	_	Stunted or Stressed	` '
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	ed Soils (C6)	Geomorphic Positio	` '
Iron Deposits (B5)	Thin Muck Surface (C7)	_	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		- ,	Microtopographic R	` ,
Sparsely Vegetated Concave Surface (B8	,) 		X FAC-Neutral Test (I	D5)
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):	<u> </u>		
Water Table Present? Yes Saturation Present? Yes	No x Depth (inches):	—	U	Yes V No
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	— Wetiand	Hydrology Present?	Yes <u>X</u> No
Describe Recorded Data (stream gauge, moni	itoring well serial photos previous	i	zailahla:	
Describe Necolueu Data (stream gauge, mem	toring well, aerial priotos, provious	s Ilispections, il av	dilabie.	
Remarks:				
l e e e e e e e e e e e e e e e e e e e				

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
5.				Species Across All Strata: 2 (B) Percent of Dominant Species
6				That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species35 x 1 =35
1				FACW species 85 x 2 = 170
2.				FAC species 5 x 3 = 15
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5				Column Totals: 125 (A) 220 (B)
6				Prevalence Index = B/A =1.76
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
Phalaris arundinacea	80	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Persicaria sagittata	5	No	OBL	data in Remarks or on a separate sheet)
4. Toxicodendron radicans	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Bidens frondosa	5	No	FACW	1 Indicators of hydric call and watland hydrology must
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				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
Wash Visa Oraton (Blateine 20)	125	=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. 4.				Vegetation Present? Yes X No
		=Total Cover		
Pomarke: (Include phote numbers here or on a cons	rato choot)	•		
Remarks: (Include photo numbers here or on a separ	rate sneet.)			

Sampling Point: RR-L-6 Wet

SOIL Sampling Point RR-L-6 Wet

	iption: (Describe to	the dep				tor or co	onfirm the absence of	f indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/1	98	10YR 3/6	_ 2	С	M	Loamy/Clayey	Prominent redox concentrations
			_					
								
¹Type: C=Co	ncentration, D=Deple	tion. RM=	Reduced Matrix. M	 IS=Masl	ked Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil In	•							or Problematic Hydric Soils ³ :
Histosol (Dark Surface (S7)				ick (A10) (LRR K, L, MLRA 149B)
	pedon (A2)	_	Polyvalue Belo		ce (S8) (I	LRR R,		rairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)	_	MLRA 149B))			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)	_	Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B) Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	_	High Chroma S	Sands (S	311) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
	Below Dark Surface ((A11) _	Loamy Mucky I	Mineral	(F1) (LRI	R K, L)	Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	k Surface (A12)	_	Loamy Gleyed		F2)			nt Floodplain Soils (F19) (MLRA 149B)
	odic (A17)	_	Depleted Matrix					ent Material (F21) (outside MLRA 145)
-	A 144A, 145, 149B)	_	X Redox Dark Su					allow Dark Surface (F22)
	ucky Mineral (S1)	-	Depleted Dark				Other (E	xplain in Remarks)
	eyed Matrix (S4)	-	Redox Depress		3)		3Indicate	rs of hydrophytic vegetation and
Sandy Re	Matrix (S6)	-	Marl (F10) (LR Red Parent Ma		21) /MI E	ο Λ 1/15\		d hydrology must be present,
Stripped i	viatrix (30)	-	Red Falent Ma	iteriai (i	21) (IVILI	(A 143)		disturbed or problematic.
Restrictive L	ayer (if observed):						dilicoo	adictarbed of problematic.
Type:	-, (,-							
Depth (in	ches).						Hydric Soil Preser	nt? Yes X No
							,	<u></u>
Remarks: Remarks:								
remarks.								



Wetland RR-L - View facing North



Wetland RR-L - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	÷ 6	City/County: Coxsac	kie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI			State: NY	Sampling Point: RR-L-6 Up
Investigator(s): C. Einstein		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve		Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.366714		-73.014553	Datum: NAD83
Soil Map Unit Name: Elmridge very find sand			NWI classification:	
	· · · · · · · · · · · · · · · · · · ·			
Are climatic / hydrologic conditions on the site		Yes x	<u></u>	explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" pres	ent? Yes x No No
Are Vegetation, Soil, or Hydrol	logynaturally problemat	tic? (If needed	l, explain any answers ir	າ Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point locat	tions, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	rea	
Hydric Soil Present?	Yes No X	within a Wetland?		No X
Wetland Hydrology Present?	Yes No X	If yes, optional We		
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
	, ,			
HYDROLOGY				
Wetland Hydrology Indicators:	end about annual		-	minimum of two required)
Primary Indicators (minimum of one is require		20)	Surface Soil Crack	, ,
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B Aquatic Fauna (B13)	19)	Drainage Patterns Moss Trim Lines (E	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·
Water Marks (B1)	Hydrogen Sulfide Odor (C	^1)	Crayfish Burrows (
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	• , ,	Stunted or Stresse	
Algal Mat or Crust (B4)	Recent Iron Reduction in	, ,	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (I	
Inundation Visible on Aerial Imagery (B7)		(S)	Microtopographic F	· ·
Sparsely Vegetated Concave Surface (B	· 	/	FAC-Neutral Test (
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):	Wetlan	d Hydrology Present?	Yes No _ X _
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre-	vious inspections), if	available:	
Remarks:				

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
	. <u> </u>		Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant
			Species Across All Strata: 2 (B)
·			(=)
	· -		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 0.0% (A/E
	·		Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
			FACW species 0 x 2 = 0
			FAC species $0 \times 3 = 0$
			FACU species 30 x 4 = 120
			UPL species 10 x 5 = 50
			Column Totals: 40 (A) 170 (E
			Prevalence Index = B/A = 4.25
	· -		Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
10	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporti
			data in Remarks or on a separate sheet)
5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
			robicinatio riyaropriyato vegetation (Explain)
	110	TACO	¹ Indicators of hydric soil and wetland hydrology must
	· —		be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
40	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft i
			La state (
	·		height.
			Hydrophytic
	% Cover	## Cover Species?	% Cover Species? Status =Total Cover =Total Cover 10 Yes UPL 20 Yes FACU 5 No FACU 5 No FACU

SOIL Sampling Point: RR-L-6 Up

Depth	cription: (Describe t Matrix	o the de		ı ment tı k Featur		itor or co	onfirm the absence o	f indicato	rs.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	ks
()	Color (molot)		20.01 ()		.) 0		· ontaio			
					,					
¹ Type: C=Ce	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location: F	L=Pore Lir	ning, M=Mat	rix.
Hydric Soil			·				Indicators f			
Histosol			Dark Surface (S7)					-	/ILRA 149B)
	pipedon (A2)		Polyvalue Belo		co (S9) (I	DD D		, , ,	ox (A16) (LR	•
					CE (30) (I	LKK K,				
	stic (A3)		MLRA 149B							(LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa						urface (S8)	
Stratified	d Layers (A5)		High Chroma S	Sands (S	611) (LR F	R K, L)	Thin Da	rk Surface	(S9) (LRR k	(, L)
Depleted	d Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) (LR I	R K, L)	Iron-Ma	nganese M	lasses (F12)	(LRR K, L, R)
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (F2)		Piedmoi	nt Floodpla	in Soils (F19	9) (MLRA 149B)
Mesic S	podic (A17)		Depleted Matrix	x (F3)			Red Par	ent Materia	al (F21) (ou f	tside MLRA 145
(MLR	A 144A, 145, 149B)		Redox Dark Su	rface (F	6)				Surface (F2	
-	lucky Mineral (S1)		Depleted Dark					xplain in R		,
	Gleyed Matrix (S4)		Redox Depress		` '					
				•	0)		3Indiant	ro of budg	ophytic vege	station and
	tedox (S5)		Marl (F10) (LR		·0.4\			•		
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) (MLF	(A 145)			gy must be p	
							unles	s disturbed	l or problema	atic.
Restrictive I	Layer (if observed):									
Type:	Gravel Road	shoulder	•							
Depth (ii	nches).	0					Hydric Soil Prese	nt?	Yes	No X
							11,4110 00111 1000			<u> </u>
Remarks:										
Remarks:										



Upland RR-L - View facing North



 $Upland\ RR\text{-}L-Soils\ (Gravel)$

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	City/County: Co	oxsackie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI		State: NY	Sampling Point: RR-H-3 Wet
Investigator(s): C. Einstein	Section	n, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.):	Local relief (concave, c	convex, none): Flat	Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42	<u> </u>	.ong: -73.015181	Datum: NAD83
Soil Map Unit Name: Shaker very fine sandy loam	.000000	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes		explain in Remarks.)
	-		
Are Vegetation, Soil, or Hydrologysig		"Normal Circumstances" prese	
Are Vegetation, Soil, or Hydrologyna		eeded, explain any answers in	
SUMMARY OF FINDINGS – Attach site map s	howing sampling point I	ocations, transects, im	nportant features, etc.
Hydrophytic Vegetation Present? Yes X N	No Is the Sample	ed Area	
	No within a Wet		No
Wetland Hydrology Present? Yes X	No If yes, optiona	al Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a sepa	arate report.)	-	
, .	. ,		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is required; check all the	nat apply)	Surface Soil Cracks	s (B6)
Surface Water (A1) Water-St	tained Leaves (B9)	Drainage Patterns (
	Fauna (B13)	Moss Trim Lines (B	
	posits (B15)	Dry-Season Water	
	n Sulfide Odor (C1)	Crayfish Burrows (C	·
	Rhizospheres on Living Roots (· · ·	on Aerial Imagery (C9)
	e of Reduced Iron (C4)	Stunted or Stressed	` '
 -	ron Reduction in Tilled Soils (C6	· -	
l — · · · · / — —	ck Surface (C7)	Shallow Aquitard (D	,
	xplain in Remarks)	Microtopographic R	
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I	D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		v N
	Depth (inches): We	etland Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)		- V. Marrallahlar	
Describe Recorded Data (stream gauge, monitoring well, a	eriai pnotos, previous inspection	is), if available:	
Remarks:			

bsolute 6 Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
			That Are OBL, FACW, or FAC: 2 (A)
			That Are OBL, FACW, or FAC: (A)
			Total Number of Device of
			Total Number of Dominant Species Across All Strata: 2 (B)
			Persont of Deminant Species
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species 85 x 1 = 85
			FACW species 40 x 2 = 80
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 125 (A) 165 (B
			Prevalence Index = B/A = 1.32
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
40	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
20	No	FACW	data in Remarks or on a separate sheet)
5	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
20	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
125	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in
			height.
			Hydrophytic Vegetation
			Present? Yes X No No
	40 40 20 5 20	=Total Cover =Total Cover =Total Cover 40	=Total Cover =Total Cover =Total Cover 40

SOIL Sampling Point RR-H-3 Wet

	• •	o the de	-			tor or co	onfirm the absence of	f indicators.)
Depth	Matrix			x Featur		. 2	- .	5 .
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/2	90	7.5YR 4/6	10	<u>C</u>	PL		Prominent redox concentrations
9-16	10YR 3/1	100						
								_
			-					
								-
¹ Type: C=Cor	ocentration D=Denle	etion RN	M=Reduced Matrix, N	 IS=Masl	ed Sand	Grains	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil In		o,				. 0.4		or Problematic Hydric Soils ³ :
Histosol (Dark Surface (S7)				ck (A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (I	LRR R,	Coast Pr	airie Redox (A16) (LRR K, L, R)
Black Hist	tic (A3)		MLRA 149B)			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf				49B) Polyvalu	e Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S			-		k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		nganese Masses (F12) (LRR K, L, R)
	k Surface (A12)		Loamy Gleyed		F2)			at Floodplain Soils (F19) (MLRA 149B)
	odic (A17)		X Depleted Matri Redox Dark Su		6)			ent Material (F21) (outside MLRA 145) allow Dark Surface (F22)
-	144A, 145, 149B) icky Mineral (S1)		Depleted Dark					xplain in Remarks)
	eyed Matrix (S4)		Redox Depress					xpiairi ii remarks)
Sandy Re	• • •		Marl (F10) (LR		-,		³ Indicato	rs of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)		d hydrology must be present,
							unless	disturbed or problematic.
Restrictive La	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Preser	nt? Yes X No
Remarks:								
Gravel roadsid	de							



Wetland RR-H - View facing South



Wetland RR-H - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	6 City/Cour	nty: Coxsackie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI		State: NY	Sampling Point: RR-H-3 Up
Investigator(s): C. Einstein	•	Section, Township, Range:	
Landform (hillside, terrace, etc.):		cave, convex, none): Flat	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.365553	Long: -73.015181	Datum: NAD83
· ,		NWI classification:	
Soil Map Unit Name: Shaker very fine sandy			
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrol		Are "Normal Circumstances" pres	
Are Vegetation, Soil, or Hydrol	ogynaturally problematic?	(If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling po	oint locations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the S	Sampled Area	
Hydric Soil Present?		a Wetland? Yes	No X
Wetland Hydrology Present?	Yes No X If yes, o	optional Wetland Site ID:	
Remarks: (Explain alternative procedures he	re or in a separate report.)	-	
	•		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crack	s (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (E	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (0	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living F	` ' 	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stresse	, ,
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard ([
Inundation Visible on Aerial Imagery (B7)		Microtopographic R	
Sparsely Vegetated Concave Surface (B	3)	FAC-Neutral Test (D5)
Field Observations:	~		
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):	W. d. Ulbidicalami Braconto	Y - No V
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes NoX
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	sitering well carial photos previous inst	postions) if available:	
Describe Necolded Data (stream gadge, mo.	illotting well, aetiai priotos, proviodo illo-	Jections), ii availabie.	
Remarks:			

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 4 (B)
·				Percent of Dominant Species
	·			That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 100 x 4 = 400
				UPL species 0 x 5 = 0
·				Column Totals: 100 (A) 400 (B
				Prevalence Index = B/A = 4.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%
Plantago lanceolata	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Taraxacum officinale	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
. Ambrosia artemisiifolia	20	Yes	FACU	data in Remarks or on a separate sheet)
. Lotus corniculatus	10	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
. Trifolium pratense	20	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
·				height.
				Hydrophytic
				Vegetation Yes No _ X
l		=Total Cover		

SOIL Sampling Point RR-H-3 Up

Profile Desc Depth	ription: (Describe to Matrix	o the de	-	ument tl x Featur		tor or co	nfirm the absenc	e of indica	tors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	·ks
0-15	10YR 3/2	100					Sandy			
0-13	1011(3/2	100					Januy	_		
								_		
								_		
								_		
								_		
								_		
								_		
¹ Type: C=Co	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Location	PL=Pore	Lining, M=Ma	trix.
Hydric Soil I	ndicators:						Indicator	s for Prob	lematic Hydri	c Soils³:
Histosol	(A1)		Dark Surface (S7)			2 cm	Muck (A10) (LRR K, L, I	MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	Coas	t Prairie Re	edox (A16) (LF	RR K, L, R)
Black His	stic (A3)		MLRA 149B)			5 cm	Mucky Pea	at or Peat (S3)	(LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf						Surface (S8)	
	Layers (A5)		High Chroma S			-			ce (S9) (LRR I	
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		_) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		F2)					9) (MLRA 149B)
	oodic (A17)		Depleted Matri							tside MLRA 145)
-	A 144A, 145, 149B)		Redox Dark Su						ark Surface (F2	22)
	ucky Mineral (S1)		Depleted Dark				Other	r (Explain ir	n Remarks)	
	leyed Matrix (S4)		Redox Depres		8)		3	-1	dana da d'a como	atatian and
	edox (S5)		Marl (F10) (LR	. ,	24) /MI F) A 44E\			drophytic vege	
Stripped	Matrix (S6)		Red Parent Ma	асепат (г	∠1) (IVILF	(A 145)			logy must be ped or problem	
Postrictivo I	_ayer (if observed):						un	ess distuib	ed of problem	auc.
Type:	ayer (ii observeu).									
· · ·									.,	N V
Depth (in	iches):						Hydric Soil Pre	sent?	Yes	NoX
Remarks:										
Gravel roads	ide									



Upland RR-H - View facing North



Upland RR-H - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene	Sampling Date: 8/30/2022				
Applicant/Owner: CHPE	State: NY	Sampling Point: GP6-G-Wei				
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of	Coxsackie				
• . ,	relief (concave, convex, none): Concave	Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,22',03.00' 'N	Long: -73°,48',55.00"	 Datum:				
Soil Map Unit Name: Elmridge Sandy Loams	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year?		explain in Remarks.)				
						
Are Vegetation, Soil, or Hydrologysignificantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problema		,				
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, im	portant features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X	No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
(—						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (r	minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Crack					
Surface Water (A1) X Water-Stained Leaves (E		` '				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (E	` ,				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water					
Water Marks (B1) Hydrogen Sulfide Odor (·				
Sediment Deposits (B2) Oxidized Rhizospheres of		on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4) Recent Iron Reduction in						
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (I					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	· · · · · · · · · · · · · · · · · · ·					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (
Field Observations:	<u></u>					
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches): Depth (inches):	·					
Saturation Present? Yes No X Depth (inches):		Yes X No				
(includes capillary fringe)		100 <u>X</u> NO				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:					
	,					
Remarks:						

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				·`` '
				Percent of Dominant Species
	-	· 		That Are OBL, FACW, or FAC: 100.0% (A/E
		·		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)				OBL species x 1 =
				FACW species x 2 =
				FAC species x 3 =
<u>. </u>				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (I
		· ——		Prevalence Index = B/A =
		· 		
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Phalaris arundinacea	50	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
Phragmites australis	10	No	FACW	4 - Morphological Adaptations (Provide support
Lythrum salicaria	10	No	OBL	data in Remarks or on a separate sheet)
Euthamia graminifolia	25	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-	-			Definitions of Vegetation Strata:
		· ——		Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
)				Sapling/shrub – Woody plants less than 3 in. DBH
l				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardle:
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 15)		•		
				Woody vines – All woody vines greater than 3.28 ft height.
		·		noight.
				Hydrophytic
		· ——		Vegetation
				Livescent'i Vec V Ne
		·		Present?

SOIL Sampling Point GP6-G-Wet

Profile Desc Depth	ription: (Describe t Matrix	to the de		ı ment tl k Featur		tor or co	onfirm the absence of in	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	7.5YR 3/2	100					Loamy/Clayey	
4-10	7.5YR 2.5/1	97	7.5YR 5/8	3	С	PL	Loamy/Clayey	Prominent redox concentrations
10-12	7.5YR 2.5/1	100					Loamy/Clayey	
	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	1S=Mas	ked San	d Grains.		Pore Lining, M=Matrix.
Hydric Soil I			Debaselus Dele	0	(00) (Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Belo		ce (58) (LKK K,		(A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa) (LRR R	, MLRA 1		y Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				· —	Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky I	Mineral	(F1) (LR	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			anese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matrix	` '	-0\			Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1) sleyed Matrix (S4)		X Redox Dark Su Depleted Dark	•	,			dic (TA6) (MLRA 144A, 145, 149B) t Material (F21)
	ledox (S5)		Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		-,			lain in Remarks)
Dark Sur	rface (S7)							
31	6 h		and an all broaders lands are				andered an armadal are affect	
	Layer (if observed):	ion and v	reliand hydrology mu	ist be pr	resent, ui	ness dist	urbed or problematic.	
Type:	-uyo. (0200.10u).							
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Remarks:								
	m is revised from No 2015 Errata. (http://w							Field Indicators of Hydric Soils,
version 7.0, 7	2015 Errata. (http://w	ww.nrcs	usua.gov/internet/F3	SE_DOC	JUIVIEINI	S/IIICS 14.	2p2_051293.docx)	



Wetland GP6-G



Wetland GP6-G - Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022				
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-G-Up				
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie				
	relief (concave, convex, none): Concave Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,22',03.00' 'N	Long: -73°,48',55.00" Datum:				
Soil Map Unit Name: Elmridge Sandy Loams	NWI classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrology significantly disturb	Yes X No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation , Soil , or Hydrology naturally problema					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (E					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of the					
Drift Deposits (B3) Presence of Reduced Iro					
Algal Mat or Crust (B4) Recent Iron Reduction in					
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X_				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:				
P					
Remarks:					

Constitute (Districts)	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC:0 (A)
·				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/B)
•				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		•		OBL species x 1 =
				FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>lerb Stratum</u> (Plot size: 5)		•		2 - Dominance Test is >50%
. Phalaris arundinacea	10	No	FACW	3 - Prevalence Index is ≤3.0 ¹
. Centaurea stoebe	15	No	UPL	4 - Morphological Adaptations ¹ (Provide supportin
. Solidago canadensis	25	Yes	FACU	data in Remarks or on a separate sheet)
. Daucus carota	5	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
Schizachyrium scoparium	40	Yes	FACU	
. Asclepias syriaca	5	No	UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
	-			 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
0.				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless
2	100			I of size, and woody plants less than 3.28 it tall.
	100	•		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:15)		•		Woody vines – All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size:15)				
Voody Vine Stratum (Plot size: 15) .		·		Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic
Voody Vine Stratum (Plot size: 15) .		·		Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
Voody Vine Stratum (Plot size: 15) .		=Total Cover		Woody vines – All woody vines greater than 3.28 ft ir height. Hydrophytic

SOIL Sampling Point GP6-G-Up

		the dep				tor or co	onfirm the absence of in	dicators.)
Depth (inches)	Matrix	%		x Featur	es Type ¹	Loc ²	Toyturo	Domarko
(inches)	Color (moist)	70	Color (moist)	%	Туре	LOC	Texture	Remarks
0-12	7.5YR 4/3	100					Loamy/Clayey	
¹Type: C=Co	ncentration, D=Deple	tion RM:	=Reduced Matrix N	/IS=Mas	ked Sand	d Grains	² l ocation: PI =	Pore Lining, M=Matrix.
Hydric Soil I	•	7.1011, 1 1.111	Troduced Matrix, II	no mao	nou ounc	oranio.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		(- / (,		ie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	•	(LRR R	, MLRA 1		y Peat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)	•	High Chroma S	Sands (S	311) (LR F	R K, L)	Polyvalue B	Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	-	Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)	-	Redox Dark Su	urface (F	6)		Mesic Spod	dic (TA6) (MLRA 144A, 145, 149B)
Sandy G	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy R	edox (S5)	-	Redox Depress	•	8)		Very Shallo	w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (Expl	ain in Remarks)
Dark Sur	face (S7)							
31	h		. 41	4 1			ook a disa waa klaasa Ka	
	hydrophytic vegetatio	on and we	etiand nydrology mi	ust be pr	esent, ur	ness dist	urbed or problematic.	
Type:	ayer (if observed):							
· · -								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Remarks:								
	n is revised from Nort 2015 Errata. (http://w\							Field Indicators of Hydric Soils,
version 7.0, 2	2015 Effata. (Http://wv	ww.mcs.u	isua.gov/internet/F	3E_DOC	OIVIEINI	3/11105 14/	2p2_051295.docx)	



Upland GP6-G



Upland GP6-G- Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022				
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-H-Wet				
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie				
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0				
	Long: -73°,48',58.00" Datum:				
Soil Map Unit Name: Elmridge Sandy Loams	NWI classification: PEM				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrology naturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam					
Libration by the Vermatation Processed Vermatation Processed	In the Commission Area				
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) X Water-Stained Leaves (E	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 (
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)				
X Algal Mat or Crust (B4) Recent Iron Reduction ir	. , , ,				
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes X No Depth (inches):	6				
Water Table Present? Yes No X Depth (inches):	: <u></u> _				
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
	·			·`` '
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/I
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
				FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
		-		UPL species x 5 =
				Column Totals: (A) (I
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Typha angustifolia	25	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
Phalaris arundinacea	25	Yes	FACW	4 - Morphological Adaptations (Provide support
Lythrum salicaria	10	No	OBL	data in Remarks or on a separate sheet)
Lysimachia nummularia	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	·			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
)				Sapling/shrub – Woody plants less than 3 in. DBH
l				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 15)		•		
				Woody vines – All woody vines greater than 3.28 ft height.
				noight.
				Hydrophytic
·				
				Vegetation
				Vegetation Present? Yes X No

SOIL Sampling Point GP6-H-Wet

Profile Desc Depth	cription: (Describe to Matrix	o the de		ıment tl x Featur		itor or c	onfirm the absence of in	idicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	7.5YR 2.5/1	80	7.5YR 4/6	20		M	Mucky Loam/Clay	
<u> </u>								
¹ Type: C=Ce	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for I	Problematic Hydric Soils ³ :
Histosol	• •		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•				ie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		-			y Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	d Layers (A5)	(111)	Loamy Mucky			RK,L)		Surface (S9) (LRR K, L)
	d Below Dark Surface ark Surface (A12)	(A11)	Loamy Gleyed Depleted Matri		F2)			inese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		:6)			dic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark		-			: Material (F21)
	dedox (S5)		? Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			ain in Remarks)
Dark Su	rface (S7)							
	, , , ,	on and v	vetland hydrology mu	ıst be pr	esent, ui	nless dis	turbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Present?	Yes <u>X</u> No
Version 7.0,	m is revised from Nor 2015 Errata. (http://w 5 inches of water in the	ww.nrcs	usda.gov/Internet/FS					Field Indicators of Hydric Soils,



Wetland GP6-H



Wetland GP6-H - Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022					
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-H-Up					
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie					
	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,22',05.00' 'N	Long: -73°,48',58.00" Datum:					
Soil Map Unit Name: Elmridge Sandy Loams	NWI classification: None					
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						
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
Tromano. (Explain alternative procedures note of in a separate report.)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (B						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·					
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4) Recent Iron Reduction in	to the contract of the contrac					
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
	(AO-Neutral Test (D3)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Para selar						
Remarks:						

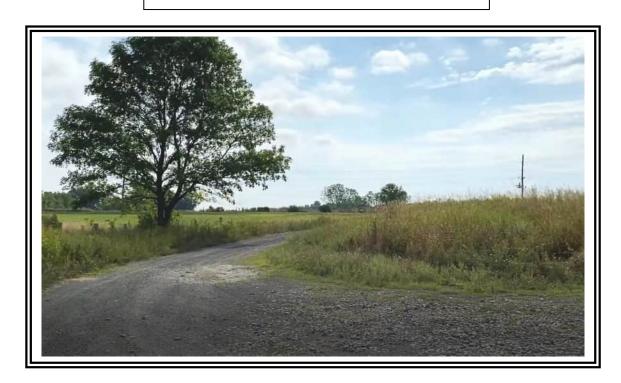
	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
	<u> </u>			·
·				Percent of Dominant Species That Are ORL FACIAL or FAC: 0.09/ (A/F
				That Are OBL, FACW, or FAC: 0.0% (A/E
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)				OBL species x 1 =
Lonicera tatarica	5	Yes	FACU	FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
·	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
orb Stratum (Diataire) F		- Total Govel		2 - Dominance Test is >50%
erb Stratum (Plot size: 5	0.5		LIDI	
Centaurea stoebe	25	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
Solidago canadensis	25	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supportidata in Remarks or on a separate sheet)
Schedonorus pratensis	15	Yes	FACU	data in Remarks of on a separate sheet)
Poa pratensis	15	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Daucus carota	10	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
Lythrum salicaria	5	No	OBL	be present, unless disturbed or problematic.
Phalaris arundinacea	5	No	FACW	Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
1.	-			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
		· ——		and greater than or equal to 5.26 it (1 iii) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:15)				Woody vines – All woody vines greater than 3.28 ft
				height.
				Hydrophytic
				Hydrophytic Vegetation
·				Present? Yes No X
		=Total Cover		

SOIL Sampling Point GP6-H-Up

		the dep				tor or co	nfirm the absence of ir	ndicators.)
Depth	Matrix			x Featur		. 2	- .	Б
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			·		·			
¹Type: C=Co	ncentration, D=Deple	tion RM	=Reduced Matrix N	//S=Mas	ked Sand	Grains	² l ocation: PI =	Pore Lining, M=Matrix.
Hydric Soil I		,	,					Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RR R		(A10) (LRR K, L, MLRA 149B)
	pedon (A2)	-	MLRA 149B		00 (00) (1	-1414 14,		rie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	•	(I DD D	MI DA 1		y Peat or Peat (S3) (LRR K, L, R)
		-	High Chroma S		-			
	Sulfide (A4)	-						Below Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky			K N, L)		Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			anese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	-	Depleted Matri					Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)	-	Redox Dark Su	-	•			dic (TA6) (MLRA 144A, 145, 149B)
Sandy G	eyed Matrix (S4)	-	Depleted Dark	Surface	(F7)			t Material (F21)
Sandy R	edox (S5)	-	Redox Depres	sions (F	8)		Very Shallo	ow Dark Surface (F22)
Stripped	Matrix (S6)	_	Marl (F10) (LR	RK, L)			Other (Exp	lain in Remarks)
Dark Sur	face (S7)							
	hydrophytic vegetation	on and we	tland hydrology mu	ust be pr	esent, ur	less distu	irbed or problematic.	
Restrictive L	ayer (if observed):							
Type:	Roadwa	y fill						
Depth (in	ches):	0					Hydric Soil Present?	Yes No_X_
Remarks:								
This data forr	n is revised from Nor	thcentral a	and Northeast Reg	ional Su _l	pplement	Version :	2.0 to include the NRCS	Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://w\	ww.nrcs.u	sda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	
An upland ho	le was not able to be	dug as th	e wetland was dire	ctly adja	cent to a	driveway	' .	



Upland GP6-H



Upland GP6-H- Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21
Applicant/Owner: CHA	State: NY Sampling Point: VB-3
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.36403	Long: -73.81654 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 No , Soil N , or Hydrology N significantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland VB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (·
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) X Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark)	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: 3
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	: 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Tremaine.	

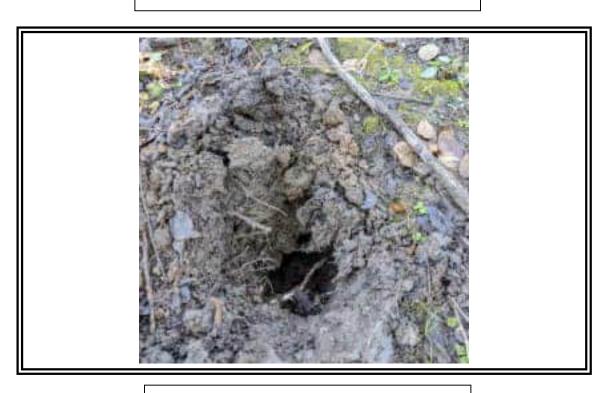
VEGETATION – Use scientific names of plants. Sampling Point: VB-3 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species **FACW** species 40 x 2 = 1. Cornus sericea 20 **FACW** 80 Yes 2. FAC species 0 x 3 = 0 3. FACU species x 4 = 4. UPL species x 5 = 5. Column Totals: 40 80 (B) 6. Prevalence Index = B/A = 2.00 7. **Hydrophytic Vegetation Indicators:** 20 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 20 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point VB-3

Depth	ription: (Describe to Matrix	o tne ae		ument ti x Featur		ator or co	onfirm the absence of indic	ators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10yr 3/1	75	7.5yr 5/4	25			Loamy/Clayey	Prominent	
4-16	10yr 2/1	60	7.5yr 5/4	40			Loamy/Clayey	Prominent	
¹ Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix, N	//S=Mas	ked San	d Grains.			
Hydric Soil I								blematic Hydric Soils ³ :	
Histosol (Polyvalue Belo		ce (S8) (LRR R,		0) (LRR K, L, MLRA 149B)	
Black His	ipedon (A2) stic (A3)		MLRA 149B Thin Dark Surf	•) (LRR R	. MLRA		ledox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Dark Surfa	ace (S9) (L RR K , L)	
	Below Dark Surface	(A11)	Loamy Gleyed		(F2)			e Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		X Depleted Matri		-6)			dplain Soils (F19) (MLRA 149B)	
	ucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark					TA6) (MLRA 144A, 145, 149B)	
	edox (S5)		Redox Depress				Red Parent Material (F21) Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR		,		Other (Explain		
Dark Sur	face (S7)								
3Indicators of	hydrophytic yogotatic	on and s	watland bydrology mi	ict ho n	rocont u	nloce diet	turbed or problematic.		
	.ayer (if observed):	JII aliu v	vetiand hydrology mit	ust be p	resent, u	illess dist	urbed of problematic.		
Type:	,								
Depth (in	ches):						Hydric Soil Present?	Yes X No	
Remarks:							I		



Wetland VB- View facing southwest



Wetland VB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE	City/County: Coxsackie/Green Sampling Date: 6.20.22							
Applicant/Owner: TDI	State: NY Sampling Point: UB2 & VB Upl							
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:							
· · · · · · · · · · · · · · · · · · ·	relief (concave, convex, none): Convex Slope %: 50							
Subregion (LRR or MLRA): LRR R Lat: 42,368939	Long: -73.816629 Datum: NAD83							
Soil Map Unit Name: KrA, KrB - Kingsbury and Rhinebeck soils	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 Hydrology significantly distur								
Are Vegetation , Soil , or Hydrology naturally problems								
SUMMARY OF FINDINGS – Attach site map showing sam								
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes No X	within a Wetland? Yes No X							
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report.) Railroad embankment. Upland adjacent to Wetland UB2 and Wetland VB.								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·							
Sediment Deposits (B2) Oxidized Rhizospheres of the control of th								
Presence of Reduced Iro	<u> </u>							
Algal Mat or Crust (B4) — Recent Iron Reduction in								
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar								
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes No _X Depth (inches):								
Water Table Present? Yes No X Depth (inches):								
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:							
Demonto								
Remarks:								

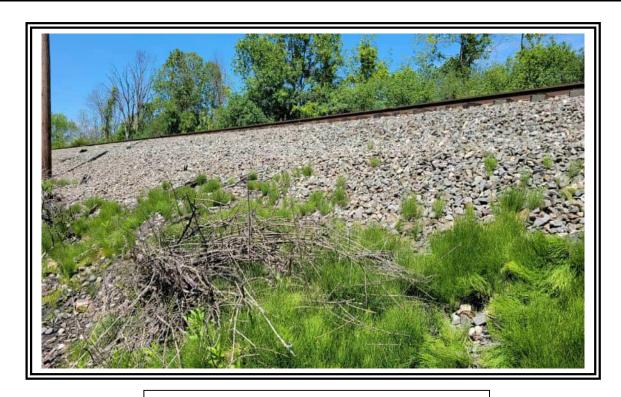
VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Lonicera tatarica	2	No	FACU	FACW species0 x 2 =0
2				FAC species30 x 3 =90
3				FACU species4 x 4 =16
4				UPL species0 x 5 =0
5				Column Totals: 34 (A) 106 (B)
6				Prevalence Index = B/A =3.12
7.				Hydrophytic Vegetation Indicators:
	2	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Equisetum arvense	30	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Oenothera biennis 3.	2	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
5				- Troblematic Hydrophytic Vegetation (Explain)
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 3.20 it (1 iii) tall.
12	32	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
2				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	esta chaot \	Total Gover		
Temana. (morado prioto númboro noto or on a separ	a.c 0.100t.)			

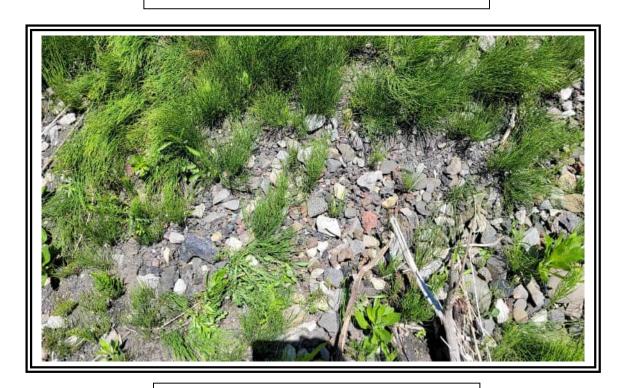
Sampling Point: UB2 & VB Upl

SOIL Sampling Point UB2 & VB Upl

		o the de				tor or co	onfirm the absence of	findicators.)
Depth	Matrix			x Featur		. 2	- .	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
¹ Type: C=Co	oncentration, D=Deple	tion RN	M=Reduced Matrix N	 AS=Mas	ked Sand	Grains	² l ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		31.011, 1111	T TOGGOOG WIGHTA, II	TO MIGO	nou ounc	Clambi		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	RRR		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		CC (OO) (I	LIXIX IX,		airie Redox (A16) (LRR K, L, R)
				•	(I DD D	MI DA 1		
— Black Hi			Thin Dark Surf					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		— High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)	(4.4.4)	Loamy Mucky			₹ K, L)		k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		•			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)
	edox (S5)		Redox Depress	•	8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (Ex	xplain in Remarks)
Dark Su	face (S7)							
³ Indicators o	hydrophytic vegetati	on and w	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	nt? Yes No X
Remarks:								
	m is revised from Nor	thcentra	I and Northeast Red	ional Su	nnlemen	Version	2.0 to include the NRC	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w							of Field Indicators of Frydric Colls,
	of railroad ballast.		g	_			-,- <u>-</u> ,	



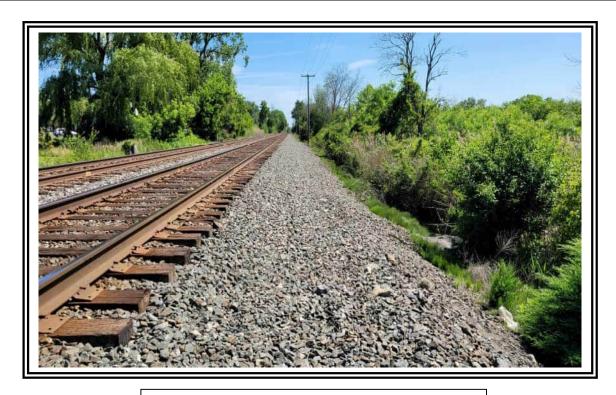
Upland UB- View facing northeast



Upland UB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS



Upland VB- View facing south



Upland VB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022						
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-E-Wet						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0						
	Long: -73°,49',21.00" Datum:						
Soil Map Unit Name: Kingsbury and Rhinebeck	NWI classification: PSS						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation , Soil , or Hydrology significantly disturl							
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) X Water-Stained Leaves (E							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (<u> </u>						
	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>						
Algal Mat or Crust (B4) Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar							
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (inches):							
Water Table Present? Yes No X Depth (inches):							
Saturation Present? Yes X No Depth (inches):	: 2 Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
P							
Remarks:							

VEGETATION – Use scientific names of plants.

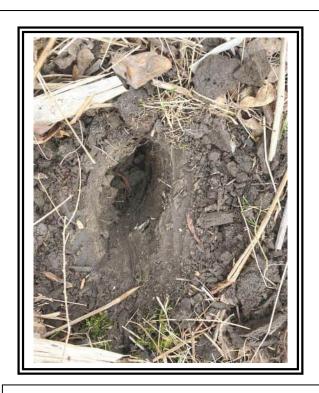
	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
. Fraxinus americana	5	Yes	FACU	Number of Dominant Species
d. Ulmus americana	5	Yes	FACW	That Are OBL, FACW, or FAC: 6 (A)
i		·		Total Number of Dominant
l		·		Species Across All Strata: 8 (B)
i				Percent of Dominant Species
i				That Are OBL, FACW, or FAC:75.0% (A/B)
·				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
. Rhamnus cathartica	5	No	FAC	FACW species x 2 =
. Cornus sericea	20	Yes	FACW	FAC species x 3 =
Lonicera tatarica	20	Yes	FACU	FACU species x 4 =
l		. <u></u>		UPL species x 5 =
i				Column Totals: (A) (B
i				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5)		•		X 2 - Dominance Test is >50%
Phragmites australis	10	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Phalaris arundinacea	5	No	FACW	data in Remarks or on a separate sheet)
Onoclea sensibilis	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
i. Euthamia graminifolia	15	Yes	FAC	
).				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
3.				Tree Woody plants 2 in /7.6 cm) or mars in
).				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 15)				Woody vines – All woody vines greater than 3.28 ft in
. Toxicodendron radicans	5	Yes	FAC	height.
1.				
B.				Hydrophytic Vegetation
				Present? Yes X No
	5	=Total Cover		
	_	•		1

SOIL Sampling Point GP6-E-Wet

		to the de				itor or co	onfirm the absence o	f indicators.)
Depth	Matrix	0/		K Featur		12	Taratrusa	Demonto
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/2	95	10YR 4/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations
								_
						·		
¹ Type: C=C	oncentration, D=Depl	etion RN	A-Reduced Matrix M		ked Sand	d Graine	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	•	etion, rei	i-i teduced Matrix, iv	IO-IVIAS	Keu Gand	J Grains.		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		ick (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		00 (00) (.	,		rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		(LRR R	. MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-		· —	e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I					rk Surface (S9) (LRR K, L)
	l Below Dark Surface	(A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy R	edox (S5)		? Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Su	face (S7)							
2								
			vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No X
Remarks:								
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	



Wetland GP6 - E



Wetland GP6-E - Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 6- Greene County Grasslands	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022						
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-E-Up						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0						
·							
Soil Map Unit Name: Kingsbury and Rhinebeck	NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation , Soil , or Hydrology significantly disturb							
Are Vegetation, Soil, or Hydrology naturally problems							
							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (F	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 (
Sediment Deposits (B2) Oxidized Rhizospheres of							
Drift Deposits (B3) Presence of Reduced Inc.							
Algal Mat or Crust (B4) Recent Iron Reduction ir	<u> </u>						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	mrks) 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):							
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

VEGETATION – Use scientific names of plants.

T (0) (1) (1)	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus americana	25	Yes	FACU	Number of Dominant Species
2. Juniperus virginiana	25	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1. Rhamnus cathartica	20	Yes	FAC	FACW species x 2 =
2. Fraxinus americana	5	No	FACU	FAC species x 3 =
3. Lonicera tatarica	15	Yes	FACU	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
· ·	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		-		2 - Dominance Test is >50%
Fragaria virginiana	5	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2			TACO	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
<u> </u>				Dualitation of the University of the Manager of the Company
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				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
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	5	Yes	FAC	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			•

Sampling Point: GP6-E-Up

SOIL Sampling Point GP6-E-Up

		o the de				itor or co	onfirm the absence of indic	ators.)
Depth	Matrix	%		x Featur		Loc ²	Tarakana	Damada
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
0-2	10YR 3/1	100					Loamy/Clayey	
2-8	10YR 3/4	100					Loamy/Clayey	
8-12	10YR 4/3	100					Loamy/Clayey	
							· · · · · · · · · · · · · · · · · · ·	
	ncentration, D=Deple	etion, RM	I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL=Por	
Hydric Soil I			Dobavoluo Polo	w Surfa	00 (80) (I DD D		blematic Hydric Soils ³ :
Histosol (ipedon (A2)		Polyvalue Belo MLRA 149B		ce (36) (i	LKK K,		0) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	•	(LRR R	, MLRA 1		eat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		High Chroma S	3ands (S	311) (LR F	R K, L)	Polyvalue Belo	w Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			R K, L)		ace (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			se Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		· (0)			dplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark		•		Red Parent Ma	TA6) (MLRA 144A , 145 , 149B)
	edox (S5)		Redox Depress					Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	•	<i>o</i> ,		Other (Explain	, ,
	face (S7)			, ,				,
2								
	hydrophytic vegetation.ayer (if observed):	on and w	etland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.	
Type:	ayer (ii observeu).							
Depth (in	ches):						Hydric Soil Present?	Yes No _X_
Remarks:								
	m is revised from Nor 2015 Errata. (http://w						2.0 to include the NRCS Field	ld Indicators of Hydric Soils,
Version 7.0, 2	2015 Effata. (Http://w	ww.iiics.	usua.gov/internet/F3	3E_DOC	OIVIEINI	3/1110514	2p2_031293.docx)	



Upland GP6- E



Upland- GP6-E- Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	City/County: Coxsackie/Greene Sampling Date: 9/7/23
Applicant/Owner: TDI	State: NY Sampling Point: RR-I-2 Wet
Investigator(s): C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Flat Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42.364	
Soil Map Unit Name: Shaker very fine sandy loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrologysignific	
Are Vegetation, Soil, or Hydrologynatural	
SUMMARY OF FINDINGS – Attach site map show	ving 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 separate	report.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	· · · · · · · · · · · · · · · · · · ·
	ed Leaves (B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Faun	
Saturation (A3)Marl Deposits	
	Ilfide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
 -	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck St	<u> </u>
	in in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
	th (inches):
	th (inches): 2 Westend Hydrology Present? Yes Y No.
Saturation Present? Yes x No Dept (includes capillary fringe)	th (inches):10
Describe Recorded Data (stream gauge, monitoring well, aerial	nhotos previous inspections) if available:
Describe Notified Bata (Stream gaage, memoring, assess	priotos, proviodo mopostionoj, il availabio.
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 100 x 1 = 100
1. Salix alba	20	Yes	FACW	FACW species 20 x 2 = 40
2.				FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
F				Column Totals: 125 (A) 155 (B)
				Prevalence Index = B/A = 1.24
7			•	Hydrophytic Vegetation Indicators:
1.	20	=Total Cover	•	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		- Total Gover		X 2 - Dominance Test is >50%
<u></u>	60	Vaa	OBL	$\begin{array}{c} X \\ \hline X \\ 3 - \text{Prevalence Index is } \leq 3.0^{1} \end{array}$
Typha angustifolia I the rum a plicagia		Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
2. Lythrum salicaria3.	30	Yes	OBL	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5. Populus deltoides	5	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
6. Scirpus cyperinus	10	No	OBL	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	105	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
Tromaine. (morage priore frambore fiere of on a depart	ato 01100ti.)			

Sampling Point: RR-I-2 Wet

SOIL Sampling Point RR-I-2 Wet

Profile Desc Depth	ription: (Describe to Matrix	o the de	-	iment th k Featur		tor or co	confirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture Remarks
1-3	10YR 3/1	100			·		Sandy
3-13	10YR 4/1	100					Sandy
3 10	10110 4/1	100					Gariay
1- 0.0							2
Hydric Soil I	oncentration, D=Deple	etion, RIV	I=Reduced Matrix, IV	S=Masi	ked Sand	Grains.	. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface (S7)			2 cm Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	RR R.	Coast Prairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B		() (,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		? Thin Dark Surfa	ace (S9)	(LRR R	MLRA 1	
? Stratified	Layers (A5)		High Chroma S	ands (S	611) (LRF	R K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral /	(F1) (LRF	R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R
	rk Surface (A12)		Loamy Gleyed		F2)		Piedmont Floodplain Soils (F19) (MLRA 149)
	oodic (A17)		Depleted Matrix		>		Red Parent Material (F21) (outside MLRA 14
-	A 144A, 145, 149B)		Redox Dark Su				Very Shallow Dark Surface (F22)
	ucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depress				Other (Explain in Remarks)
	edox (S5)		Marl (F10) (LR	•	0)		³ Indicators of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MLF	RA 145)	wetland hydrology must be present,
				(1	, (,	unless disturbed or problematic.
Restrictive L	ayer (if observed):						
Type:							
Depth (in	ches):						Hydric Soil Present? Yes x No
Remarks:							'



Wetland RR-I - View facing West



Wetland RR-I - Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6		City/County: Coxsacl	kie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI			State: NY	Sampling Point: RR-I-2 Up
Investigator(s): C. Einstein		Section, Tov	vnship, Range:	
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve		Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.364131		-73.015636	Datum: NAD83
Soil Map Unit Name: Shaker very fine sandy loa		Long.	NWI classification:	Datum. 14/1500
·				Into the Demonstra
Are climatic / hydrologic conditions on the site typ	•	Yes x	· · · · · · · · · · · · · · · · · · ·	explain in Remarks.)
Are Vegetation, Soil, or Hydrology			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrology	ynaturally problemative	ic? (If needed	l, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing samp	oling point locat	ions, transects, in	nportant features, etc.
Hydrophytic Vegetation Present? Ye	es No X	Is the Sampled Ar	ea	
Hydric Soil Present? Ye		within a Wetland?		No X
Wetland Hydrology Present? Ye	es No X	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures here	or in a separate report.)			
 I	•			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is required;	, check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns	(B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (E	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (0	·
Sediment Deposits (B2)	Oxidized Rhizospheres on			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	, ,	Stunted or Stressed	` '
Algal Mat or Crust (B4)	Recent Iron Reduction in 1	Tilled Soils (C6)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (I	·
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	3)	Microtopographic R	
Sparsely Vegetated Concave Surface (B8)		<u> </u>	FAC-Neutral Test (D5)
Field Observations:				
	No x Depth (inches):			
	No X Depth (inches):	Wetler	- Under I amy Draggert 2	Van Na V
	No X Depth (inches):	wetiani	d Hydrology Present?	Yes NoX
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	oring well perial photos prev	vious inspections) if	ovojlahla:	
Describe Necolided Data (Stream gauge, memo	ming wen, acriai priotos, provi	ious irispections, ir i	avaliabie.	
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: RR-I-2 Up Dominant Absolute Indicator <u>Tree Stratum</u> (Plot size: 30') % Cover Species? **Dominance Test worksheet:** Status **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: =Total Cover Multiply by: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15') OBL species x 1 = ___ x 2 = _____ FACW species FAC species x 3 = ___ 3. FACU species x 4 = 4. UPL species x 5 = 5. Column Totals: (A) Prevalence Index = B/A =6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% Herb Stratum (Plot size: 5') 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 2. data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 7. 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Pavement, no veg

SOIL Sampling Point RR-I-2 Up

Depth	Matrix	o inc dep		x Feature		1101 01 00	onfirm the absence	Ji maioc	11013.7		
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type ¹	Loc ²	Texture		Rem	narks	
				· 							
								-			
¹Type: C=Cc	oncentration, D=Deple	etion, RM:	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore	Lining, M=N	Jatrix.	
Hydric Soil I		· · · · · · · · · · · · · · · · · · ·							olematic Hyd		³:
Histosol		_	Dark Surface (S7)					0) (LRR K, L		
	ipedon (A2)	-	Polyvalue Belo		ce (S8) (LRR R,			edox (A16) (I		
Black His		-	MLRA 149B)			5 cm M	lucky Pe	at or Peat (S	3) (LRR K	(, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)) (LRR R	, MLRA 1			w Surface (S		
Stratified	Layers (A5)	-	High Chroma S	Sands (S	311) (LRF	₹ K, L)	Thin Da	ark Surfa	ice (S9) (LRI	R K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral ((F1) (LR !	R K, L)	Iron-Ma	anganese	e Masses (F	12) (LRR I	K, L, R)
	rk Surface (A12)	· -	Loamy Gleyed					-	lplain Soils (I		
Mesic Sp	oodic (A17)	-	Depleted Matrix	x (F3)			Red Pa	rent Mat	terial (F21) (outside M	LRA 145)
(MLR	A 144A, 145, 149B)	-	Redox Dark Su	ırface (F	·6)		Very SI	nallow Da	ark Surface ((F22)	
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	; (F7)		Other (Explain i	n Remarks)		
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)						
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicat	ors of hy	drophytic ve	getation a	ınd
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetla	ınd hydro	ology must be	e present,	
							unles	s disturb	oed or proble	matic.	
	_ayer (if observed):	_			_			_	_	_	_
Type:	pavement 8	& gravel				!					
Depth (in	nches):	0				!	Hydric Soil Prese	ent?	Yes	No	X
Remarks:							1				
rtomanto.											



Upland RR-I - View facing South



 $Upland\ I-Soils\ (Pavement)$

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package	6	City/County: Coxsac	kie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI			State: NY	Sampling Point: RR-K-4 Wet
Investigator(s): C. Einstein		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.):	Local re	elief (concave, conve	ex. none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.362836		-73.01595	Datum: NAD83
Soil Map Unit Name: Shaker very fine sandy			NWI classification:	
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
				
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
	Yes X No	within a Wetland		No
Wetland Hydrology Present?	Yes X No	If yes, optional We		
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)	-	Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (0	·
Sediment Deposits (B2)	x Oxidized Rhizospheres or	= : :		on Aerial Imagery (C9)
x Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in	` ,	Stunted or Stressedx Geomorphic Position	` '
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solis (So)	Shallow Aquitard (I	
Inundation Visible on Aerial Imagery (B7)		(s)	Microtopographic R	
Sparsely Vegetated Concave Surface (Bi		(3)	X FAC-Neutral Test (, ,
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):	Wetlan	d Hydrology Present?	Yes X No
(includes capillary fringe)			,	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
·				That Are OBL, FACW, or FAC: 3 (A)
				Total Number of Deminent
				Total Number of Dominant Species Across All Strata: 3 (B)
				,
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
·				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')		- Total Gover		OBL species 65 x 1 = 65
				FACW species 10 x 2 = 20
•	-			FAC species 20 x 3 = 60
·				FACU species <u>5</u> x 4 = <u>20</u>
				UPL species 0 x 5 = 0
·				Column Totals: 100 (A) 165 (B
·				Prevalence Index = B/A = 1.65
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Echinochloa crus-galli	10	No	FAC	X 3 - Prevalence Index is ≤3.0 ¹
. Persicaria lapathifolia	10	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
. Lythrum salicaria	5	No	OBL	data in Remarks or on a separate sheet)
Typha latifolia	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
Erigeron canadensis	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
. Carex lurida	20	Yes	OBL	Definitions of Vegetation Strata:
. Scirpus cyperinus	20	Yes	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in
. Setaria pumila	10	No	FAC	diameter at breast height (DBH), regardless of height
0.				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')	-100	-10101 00101		
· · · · · · · · · · · · · · · · · · ·				Woody vines – All woody vines greater than 3.28 ft i height.
·				neight.
				Hydrophytic
·				Vegetation
·				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL Sampling Point RR-K-4 Wet

Profile Descr Depth	iption: (Describe to Matrix	o the de	-	ıment th x Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	90	10YR 4/6	10	С	PL	Loamy/Clayey	Prominent redox concentrations
5-15	10YR 4/1	60	10YR 4/4	40	С	M	Loamy/Clayey	Distinct redox concentrations
Hydric Soil Ir Histosol (Histic Epi Black His Hydrogen Stratified X Depleted Thick Dar Mesic Spo (MLRA Sandy Mu Sandy Re	pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) odic (A17) A 144A, 145, 149B) acky Mineral (S1) eyed Matrix (S4)		M=Reduced Matrix, M Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	S7) w Surface) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (FE R K, L)	(LRR R (11) (LRI (F1) (LRI (F1) (LRI (F2) (6) (F7)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Red Par Very Sha Other (E	PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rh Surface (S9) (LRR K, L) rh Surface (S9) (LRR K, L) rh Surface (F12) (LRR K, L, R) under Hoodplain Soils (F19) (MLRA 149B) ent Material (F21) (outside MLRA 145) allow Dark Surface (F22) explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present,
Restrictive L	ayer (if observed):						uniosc	s disturbed or problematic.
Type:								
Depth (inc	ches):						Hydric Soil Preser	nt? Yes X No
Remarks: Remarks:								



Wetland RR-K - View facing East



Wetland RR-K – Soils

Segment 10-Package 6

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE - Segment 10 - Package 6	City/County:	Coxsackie/Greene	Sampling Date: 9/7/23
Applicant/Owner: TDI		State: NY	Sampling Point: RR-K-4 Up
Investigator(s): C. Einstein	Sect	tion, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.):		e, convex, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R La	•	Long: -73.01595	Datum: NAD83
Soil Map Unit Name: Shaker very fine sandy loam		NWI classification:	
Are climatic / hydrologic conditions on the site typical for	or this time of year?		explain in Remarks.)
, , , , , , , , , , , , , , , , , , , ,		re "Normal Circumstances" prese	
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		f needed, explain any answers in	
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling point	t locations, transects, ım	portant features, etc.
Hydrophytic Vegetation Present? Yes X	K No Is the Sam	npled Area	
	No X within a W		No X
Wetland Hydrology Present? Yes		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a	a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	
Primary Indicators (minimum of one is required; check		Surface Soil Cracks	, ,
<u> </u>	ater-Stained Leaves (B9)	Drainage Patterns (E	•
	uatic Fauna (B13)	Moss Trim Lines (B1	
	arl Deposits (B15)	Dry-Season Water T	
	drogen Sulfide Odor (C1)	Crayfish Burrows (C	
	idized Rhizospheres on Living Roots	· · · · · · · · · · · · · · · · · · ·	n Aerial Imagery (C9)
	esence of Reduced Iron (C4)	Stunted or Stressed	
	cent Iron Reduction in Tilled Soils (C		
- 	in Muck Surface (C7)	Shallow Aquitard (Di	•
I 	her (Explain in Remarks)	Microtopographic Re	
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D)5)
Field Observations:	5		
Surface Water Present? Yes No x			
Water Table 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 w	wall porial photos, provious inspecti	iona) if available:	
Describe Recorded Data (stream gauge, monitoring w	vell, aeriai priotos, previous irispecti	ions), ii avallable.	
Remarks:			

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
i.				Percent of Dominant Species
i.				That Are OBL, FACW, or FAC: 66.7% (A/B)
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 5 x 1 = 5
·				FACW species 0 x 2 = 0
				FAC species 7 x 3 = 21
·				FACU species 5 x 4 = 20
				UPL species 2 x 5 = 10
				Column Totals: 19 (A) 56 (B
				Prevalence Index = B/A = 2.95
·	· ·	=Total Cover		Hydrophytic Vegetation Indicators:
lorb Stratum (Diataina) Fi		= rotal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')	_	V	E40	X 2 - Dominance Test is >50%
. Setaria pumila	5	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet)
3. Lythrum salicaria	5	Yes	OBL	
Artemisia vulgaris	2	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
Erigeron canadensis	5	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
)				be present, unless disturbed or problematic.
. Echinochloa crus-galli	2	No	FAC	Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2	· 			Herb – All herbaceous (non-woody) plants, regardles
	19	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:))			Woody vines – All woody vines greater than 3.28 ft in
. <u> </u>				height.
				Hydraphytia
3.				Hydrophytic Vegetation
l				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sep				

SOIL Sampling Point RR-K-4 Up

Profile Desc Depth	ription: (Describe Matrix	to the de	-	ument tl x Featur		tor or co	onfirm the absence of	of indicate	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks
(1101100)	Color (molot)	70	Color (molot)		Туро		Toxtaro		rtomar	1.0
1Type: C-Ce	oncentration, D=Dep	lotion DA	4-Paduaad Matrix N	18_Mag	Lod Sono	Croins	2l postion: I	DI Doro I	_ining, M=Ma	triv
		elion, Riv	/i=Reduced Matrix, N	vio=iviasi	keu Sand	Grains.				
Hydric Soil I									ematic Hydri	
Histosol			Dark Surface (. ,					(LRR K, L, N	
Histic Ep	ipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (I	_RR R,	Coast F	rairie Red	dox (A16) (LR	RR K, L, R)
Black His	stic (A3)		MLRA 149B	3)			5 cm M	ucky Peat	or Peat (S3)	(LRR K, L, R)
Hydroger	n Sulfide (A4)		Thin Dark Surf	ace (S9)	(LRR R	MLRA 1	(49B) Polyval	ue Below	Surface (S8)	(LRR K, L)
	Layers (A5)		High Chroma S						e (S9) (LRR I	
	Below Dark Surface	Δ11)	Loamy Mucky			-) (LRR K, L, R)
	rk Surface (A12)	, (, (, 1, 1,				· · · · · · · · ·		-		
			Loamy Gleyed		Γ ∠)					9) (MLRA 149B)
	oodic (A17)		Depleted Matri							tside MLRA 145
-	A 144A, 145, 149B)		Redox Dark St						k Surface (F2	22)
	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (F	Explain in	Remarks)	
Sandy G	leyed Matrix (S4)		Redox Depres	sions (F	3)					
Sandy Ro	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicat	ors of hyd	rophytic vege	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetla	nd hydrolo	ogy must be p	oresent,
<u> </u>	` '			,	, (,			d or problem	
Postrictive I	.ayer (if observed):						400	0 0.010.00		<u> </u>
		Daad								
Type:	Gravel	Road								
Depth (in	iches):	0					Hydric Soil Prese	nt?	Yes	No X
Remarks:	<u> </u>								·	
Remarks:										
Kemarks.										



 $\ \, \textbf{Upland RR-K - View facing South} \\$



 $Upland\ RR\text{-}K-Soils\ (Gravel\ Road)$

Segment 10-Package 6

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Package 6	City/County: Coxsackie Sampling Date: 12/2/21
Applicant/Owner: CHA	State: NY Sampling Point: WB-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.36318	Long: -73.81610 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 No , Soil N , or Hydrology N significantly distur	
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No	within a Wetland? Yes X No No If yes, optional Wetland Site ID:
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.)	il yes, optional vvetiand site ib.
Wetland WB	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (I	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) X Presence of Reduced Inc.	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	:3
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	:0 Wetland Hydrology Present? YesX No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (stream gauge, monitoring well, acrial priotos, pre	svioda inapositoria), ii dvalitabio.
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: WB-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species **FACW** species 110 x 2 = 1. Cornus sericea 20 **FACW** 220 Yes 2. FAC species 0 x 3 = 0 3. **FACU** species x 4 = 4. UPL species x 5 = 5. Column Totals: 110 220 (B) 6. Prevalence Index = B/A = 2.00 7. **Hydrophytic Vegetation Indicators:** 20 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 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. Sapling/shrub – Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 90 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. **Hydrophytic** 3. Vegetation No __ Present? Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point WB-2

Depth	ription: (Describe to Matrix	tne de		ument ti x Featur		ator or co	onfirm the absence of indic	ators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10yr 3/1	75	7.5yr 5/4	25			Loamy/Clayey	Prominent
4-16	10yr 2/1	60	7.5yr 5/4	40			Loamy/Clayey	Prominent
					·			
			-					
¹ Type: C=Co	oncentration, D=Deple	tion, RN	/I=Reduced Matrix, N	์ ปS=Mas	ked San	d Grains.		
Hydric Soil I					(50)			olematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		0) (LRR K, L, MLRA 149B)
Black His	ipedon (A2) stic (A3)		MLRA 149B Thin Dark Surf	-	(LRR R	. MLRA		edox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					w Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Dark Surfa	ace (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			e Masses (F12) (LRR K, L, R)
	rk Surface (A12) ucky Mineral (S1)		X Depleted Matri Redox Dark Su		·6)			dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	•			Red Parent Ma	
	edox (S5)		Redox Depres					ark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explain i	in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetatic	on and v	vetland hydrology m	ust be n	resent u	nless dist	turbed or problematic	
	_ayer (if observed):						Francisco	
Type:								
Depth (in	iches):						Hydric Soil Present?	Yes X No
Remarks:								



Wetland WB- View facing south



Wetland WB- Soils

Segment 10 – Package 6

SITE PHOTOGRAPHS

Project/Site: CHPE	City/County: Coxsackie/Green Sampling Date: 6.20.22				
Applicant/Owner: TDI	State: NY Sampling Point: WB Upl				
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:				
· · · · · · · · · · · · · · · · · · ·	relief (concave, convex, none): Convex Slope %: 45				
Subregion (LRR or MLRA): LRR R Lat: 42.361914	Long: -73.816112 Datum: NAD83				
Soil Map Unit Name: HvB, HvC, HvE - Hudson and Vergennes soils	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 Hydrology significantly distur					
Are Vegetation , Soil , or Hydrology naturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes No X	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.) Railroad embankment.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (<u> </u>				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) — Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres					
Presence of Reduced In	· · · · · · · · · · · · · · · · · · ·				
Algal Mat or Crust (B4) Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •				
Iron Deposits (B5) — Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					
Remarks.					

VEGETATION – Use scientific names of plants. Sampling Point: WB Upl Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: (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: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species 2 x 2 = FAC species 30 x 3 = 90 x 4 = 0 3. FACU species 0 4. UPL species 0 x 5 = 5. Column Totals: 32 (A) 6. Prevalence Index = B/A = 2.94 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: X 2 - Dominance Test is >50% Equisetum arvense Yes FAC 3 - Prevalence Index is ≤3.01 Phragmites australis 4 - Morphological Adaptations¹ (Provide supporting 2. **FACW** data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

=Total Cover

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

Woody Vine Stratum (Plot size: 30

2.

Woody vines – All woody vines greater than 3.28 ft in

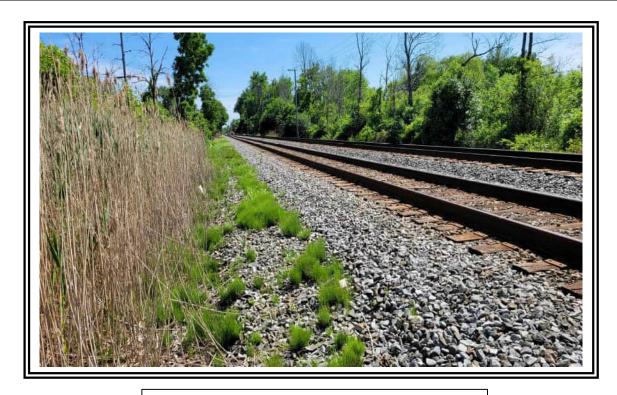
No ____

Yes X

height.

Hydrophytic Vegetation Present? SOIL Sampling Point WB Upl

		the dep				tor or co	nfirm the absence of indi	cators.)
•		0/				1 2	Taveluna	Damanka
Depth (inches)	Matrix Color (moist)	<u>%</u>		x Featur			Texture	Remarks
¹ Type: C=Co	 ncentration, D=Deple	tion. RM	=Reduced Matrix. N	 1S=Masl	 ked Sand	——— - I Grains.	 ² Location: PL=Po	re Lining, M=Matrix.
Hydric Soil In Histosol (Histic Epi Black His Hydroger Stratified Depleted Thick Dan Sandy Mi Sandy Gl Sandy Re Stripped Dark Surf	ndicators: A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	w Surface (S9) Sands (S Mineral of Matrix (x (F3) urface (F Surface (F Surface (F R K, L)	ce (S8) (I) (LRR R, 611) (LRF (F1) (LRF F2) (6) (F7)	_RR R, MLRA 14 R K, L) R K, L)	Indicators for Pro 2 cm Muck (A Coast Prairie 5 cm Mucky F Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	belematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (F22)
Type: _								
Depth (in	ches):						Hydric Soil Present?	Yes No _X
Version 7.0, 2	n is revised from Nort 2015 Errata. (http://ww of railroad ballast.							eld Indicators of Hydric Soils,



Upland WB- View facing north



Upland WB- Soils

Segment 10 – Package 6

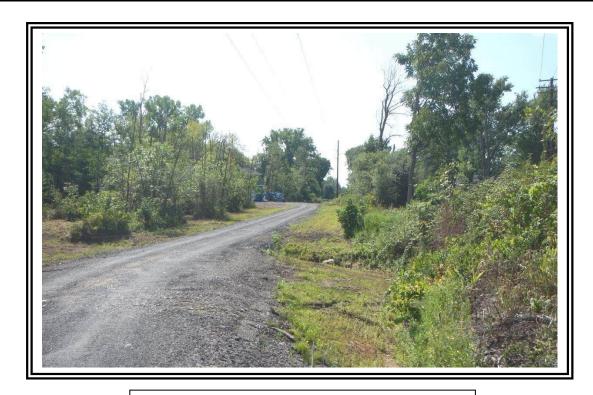
SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Lawrence Ave	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022						
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-I-Up						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0						
Soil Map Unit Name: Shaker Sandy Loam	NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
							
Are Vegetation, Soil, or Hydrology significantly distur							
Are Vegetation, Soil, or Hydrologynaturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres	——————————————————————————————————————						
Drift Deposits (B3) Presence of Reduced Inc.	ron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Reduction in	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 Remar	rks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _X Depth (inches):	:						
Water Table Present? Yes No X Depth (inches):	:						
Saturation Present? Yes No X Depth (inches):							
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

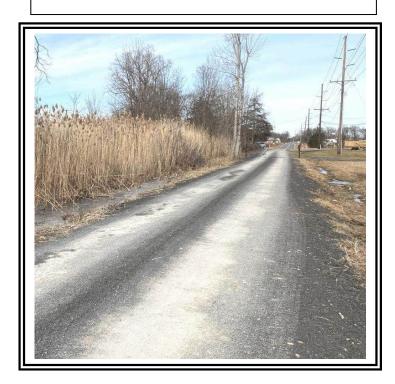
	Absolute	Dominant	Indicator	Barriago Tark
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
. Juglans nigra	5	Yes	FACU	Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A)
·				Total Number of Dominant
				Species Across All Strata: 8 (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 12.5% (A/B)
·				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)			OBL species x 1 =
. Rhus typhina	10	Yes	UPL	FACW species x 2 =
Lonicera tatarica	10	Yes	FACU	FAC species x 3 =
. Robinia pseudoacacia	5	Yes	FACU	FACU species x 4 =
·				UPL species x 5 =
				Column Totals: (A) (B
·				Prevalence Index = B/A =
- <u> </u>				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5)				2 - Dominance Test is >50%
. Solidago canadensis	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Setaria faberi	30	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supportin
Phragmites australis	10	No	FACW	data in Remarks or on a separate sheet)
Schizachyrium scoparium	15	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. 5.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2		T-4-1-0		Herb – All herbaceous (non-woody) plants, regardless
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 15)			Woody vines – All woody vines greater than 3.28 ft in
. Vitis riparia	5	Yes	FAC	height.
				Hydrophytic
2.				Vegetation
,	<u></u>			I = =
2.	- <u></u> -	=Total Cover		Present? Yes No X

SOIL Sampling Point GP6-I-Up

Depth	ription: (Describe) Matrix	to tne ae		u ment ti x Featur		itor or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
				· ·	· <u> </u>			
¹ Type: C=Co	oncentration, D=Dep	letion, RM	1=Reduced Matrix, N	//S=Mas	ked Sand	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil			•					or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		ck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B		00 (00) (.			rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	•	(I DD D	MI DA 1		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)	(4.44)	Loamy Mucky			RK, L)		k Surface (S9) (LRR K, L)
	Below Dark Surface	e (A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri					t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark St		-			podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
Sandy R	edox (S5)		Redox Depres		8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (E	xplain in Remarks)
Dark Su	face (S7)							
³ Indicators of	f hydrophytic vegetat	ion and w	etland hydrology mi	ust be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Type:	Roadwa	ay Fill						
Donth (in		0					Hydric Soil Preser	nt? Yes No X
Depth (ir	iciles).	U					nyunc son Preser	nt? Yes No X
Remarks:								
			-					S Field Indicators of Hydric Soils,
	2015 Errata. (http://w							
There was n	o upland dug due to	roadway i	peing directly adjace	ent to the	wetland	and railro	oad ballast directly beh	nind.



Upland GP6-I



Upland GP6-I- Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Lawrence Ave	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022						
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-I-Wet						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
	relief (concave, convex, none): Concave Slope %: 0						
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,21',47.00' 'N	Long: -73°,48',57.00" Datum:						
Soil Map Unit Name: Shaker Sandy Loam	NWI classification: PEM						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation , Soil , or Hydrology significantly distur							
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam							
Command of The birds - Attach site map showing same	T						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) X Water-Stained Leaves (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							
Drift Deposits (B3) Presence of Reduced In							
Algal Mat or Crust (B4) Recent Iron Reduction is	in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:	_						
Surface Water Present? Yes X No Depth (inches)	: 12						
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	evious inspections), if available:						
Remarks:							

T (1) (1) (2)	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus americana	5	Yes	FACU	Number of Dominant Species
2				That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 60.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		-		OBL species x 1 =
1. Populus deltoides	5	Yes	FAC	FACW species x 2 =
2. Fraxinus americana	5	Yes	FACU	FAC species x 3 =
2				FACU species x 4 =
1		-		UPL species x 5 =
5.				
				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
1. Phragmites australis	65	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Lythrum salicaria	10	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				The disease of budgies will and weathered budges on weather
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				-
9				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				damoter at breast height (BBH), regardless of height.
				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:15)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	5	Yes	FAC	height.
2				Hydrophytic
3.				Vegetation
4.				Present?
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	_		
·				

Sampling Point: GP6-I-Wet

SOIL Sampling Point GP6-I-Wet

Depth	ription: (Describe to Matrix			x Featur				,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/1	100					Muck	
2-12	10YR 2/1	90	10YR 5/8	10	<u>C</u>	<u>PL</u>	Mucky Loam/Clay	Prominent redox concentrations
1 0 0								
Hydric Soil I	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	stic (A3) In Sulfide (A4) I Layers (A5) I Below Dark Surface Ink Surface (A12) Ilucky Mineral (S1) Illeyed Matrix (S4) Illedox (S5) Matrix (S6) Iface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark St Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surface sions (F6 R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA R K, L) R K, L)	Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Mesic Sp Red Pare Very Sha	ick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) rairie Redox (A16) (LRR K, L, R) rairie Redox (A16) (LRR K, L, R) rairie Redox (S9) (LRR K, L) rairie Below Surface (S8) (LRR K, L) rairie Surface (S9) (LRR K, L) raganese Masses (F12) (LRR K, L, R) rat Floodplain Soils (F19) (MLRA 149B) redic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) railiow Dark Surface (F22) rexplain in Remarks)
Depth (ir	nches):						Hydric Soil Preser	nt? Yes No
Version 7.0,	m is revised from Nor 2015 Errata. (http://w inches of water in the	ww.nrcs.u	ısda.gov/Internet/F					CS Field Indicators of Hydric Soils,



Wetland GP6-I



Wetland GP6-I- Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Lawrence Ave	City/County: Coxsackie/ Greene Sampling Date: 8/30/20)22					
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-J	-Wet					
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
• • • • • • • • • • • • • • • • • • • •	relief (concave, convex, none): Concave Slope %:	0					
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,21',51.00' 'N	Long: -73°,48',56.00" Datum:	_					
Soil Map Unit Name: Shaker Sandy Loam	NWI classification: PEM						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)	_					
Are Vegetation, Soil, or Hydrology significantly disturb	· · ·						
		—					
Are Vegetation, Soil, or Hydrologynaturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, et	C.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) X Water-Stained Leaves (E	• • • • • • • • • • • • • • • • • • • •						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of							
Drift Deposits (B3) Presence of Reduced Iro	· · · · · · · · · · · · · · · · · · ·						
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	arks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes X No Depth (inches):	6						
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	evious inspections), if available:						
Remarks:							

ominant Species? otal Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A Total Number of Dominant Species Across All Strata: 3 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A =
otal Cover		That Are OBL, FACW, or FAC: 3 (A Total Number of Dominant 3 (B Percent of Dominant Species 3 (B Percent of Dominant Species 100.0% (A Prevalence Index worksheet: Multiply by: OBL species x 1 = x 2 = FACW species x 2 = x 3 = FACU species x 4 = UPL species Column Totals: (A)
otal Cover		That Are OBL, FACW, or FAC: 3 (A Total Number of Dominant 3 (B Percent of Dominant Species 3 (B Percent of Dominant Species 100.0% (A Prevalence Index worksheet: Multiply by: OBL species x 1 = x 2 = FACW species x 2 = x 3 = FACU species x 4 = UPL species Column Totals: (A)
otal Cover		Species Across All Strata: 3 (B. Percent of Dominant Species 100.0% (A. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		Species Across All Strata: 3 (B. Percent of Dominant Species 100.0% (A. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		That Are OBL, FACW, or FAC: 100.0% (A. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		That Are OBL, FACW, or FAC: 100.0% (A. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
		OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		FACU species x 4 = UPL species x 5 = Column Totals: (A)
otal Cover		UPL species x 5 = Column Totals: (A)
otal Cover		Column Totals: (A)
otal Cover		Prevalence Index = B/A =
otal Cover		
otal Cover		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		X 2 - Dominance Test is >50%
Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
Yes	OBL	4 - Morphological Adaptations ¹ (Provide suppor
No	OBL	data in Remarks or on a separate sheet)
Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
No	FACW	¹ Indicators of hydric soil and wetland hydrology mus
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree – Woody plants 3 in. (7.6 cm) or more in
		diameter at breast height (DBH), regardless of heig
		Sapling/shrub – Woody plants less than 3 in. DBH
		and greater than or equal to 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardle
otal Cover		of size, and woody plants less than 3.28 ft tall.
		Woody vines – All woody vines greater than 3.28 f
		height.
		Hydrophytic Vegetation
		Present? Yes X No
	Yes No	Yes FACW No FACW

SOIL Sampling Point GP6-J-Wet

		to the de				ator or c	onfirm the absence o	f indicators.)
Depth	Matrix	%		K Featur		Loc ²	Tarahama	Damarka
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
0-2	10YR 2/1	100					Muck	_
2-12	10YR 2/1	90	10YR 5/6	10	С	М	Mucky Loam/Clay	Prominent redox concentrations
¹ Type: C=Ce	oncentration, D=Depl	etion. RN	/=Reduced Matrix. N	IS=Mas	ked San	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil						-		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R,		ick (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B)			Coast Pi	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA	149B) 5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	311) (LR I	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky I	Mineral	(F1) (LR	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri					nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		-			podic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark					ent Material (F21)
	Redox (S5)		? Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	K N, L)			Other (E	xplain in Remarks)
Dark Su	rface (S7)							
³ Indicators o	f hvdrophytic vegetat	ion and v	vetland hvdrologv mu	ıst be pr	esent. uı	nless dist	turbed or problematic.	
	Layer (if observed):		, 0,				i i	
Type:								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:							l	
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	/ww.nrcs	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



Wetland GP6-J



Wetland GP6-J - Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Lawrence Ave	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022						
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-J-Up						
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie						
	relief (concave, convex, none): Concave Slope %: 0						
Soil Map Unit Name: Shaker Sandy Loam	NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation , Soil , or Hydrology significantly distur							
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (I	B9) 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 (
	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro							
Algal Mat or Crust (B4) Recent Iron Reduction in							
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):							
Water Table Present? Yes No X Depth (inches):							
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X_						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/E
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
				FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)		_		2 - Dominance Test is >50%
Lythrum salicaria	5	No	OBL	3 - Prevalence Index is ≤3.0 ¹
Solidago canadensis	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supporti
Schizachyrium scoparium	50	Yes	FACU	data in Remarks or on a separate sheet)
Digitaria sanguinalis	15	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
		· ———	(
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
).				Sapling/shrub – Woody plants less than 3 in. DBH
·				and greater than or equal to 3.28 ft (1 m) tall.
<u>. </u>				Herb – All herbaceous (non-woody) plants, regardle:
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:15)				Woody vines – All woody vines greater than 3.28 ft
				height.
				Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		
		Total Cover		

SOIL Sampling Point GP6-J-Up

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
	ncentration, D=Depleti	on, RM=	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.		=Pore Lining, M=Matrix.
Hydric Soil Ir								r Problematic Hydric Soils ³ :
Histosol ((A1)	_	Polyvalue Belo		ce (S8) (I	_RR R,	2 cm Mud	ck (A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		MLRA 149B)			Coast Pra	airie Redox (A16) (LRR K, L, R)
Black His	stic (A3)	_	Thin Dark Surfa	ace (S9)	(LRR R	MLRA 1	49B)5 cm Mud	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	n Sulfide (A4)	_	High Chroma S	Sands (S	311) (LRF	R K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	_	Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface (A	۹11) <u> </u>	Loamy Gleyed	Matrix (F2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Dar	rk Surface (A12)	_	Depleted Matri	x (F3)			Piedmon	: Floodplain Soils (F19) (MLRA 149E
				urface (F	6)		Mesic Sp	adia /TAG) /MI DA 444A 44E 440D)
	ucky Mineral (S1)	_	Redox Dark Sι	лпасе (г	٠,			odic (TA6) (MLRA 144A, 145, 149B)
Sandy Mu	ucky Mineral (S1) leyed Matrix (S4)	-	Redox Dark Su Depleted Dark		-			ent Material (F21)
Sandy Mu	leyed Matrix (S4)	-		Surface	(F7)		Red Pare	
Sandy Mu Sandy Gl Sandy Re	leyed Matrix (S4)	- - -	Depleted Dark	Surface sions (F	(F7)		Red Pare Very Sha	nt Material (F21)
Sandy Mu Sandy Gl Sandy Re Stripped I	leyed Matrix (S4) edox (S5) Matrix (S6)	- - -	Depleted Dark Redox Depress	Surface sions (F	(F7)		Red Pare Very Sha	nt Material (F21) llow Dark Surface (F22)
Sandy Mu Sandy Gl Sandy Re	leyed Matrix (S4) edox (S5) Matrix (S6)	- - -	Depleted Dark Redox Depress	Surface sions (F	(F7)		Red Pare Very Sha	nt Material (F21) llow Dark Surface (F22)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf	leyed Matrix (S4) edox (S5) Matrix (S6)	- - ≀ and we	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	ıless distu	Red Pare Very Sha Other (Ex	nt Material (F21) llow Dark Surface (F22)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf	eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation	ı and we	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	nless distu	Red Pare Very Sha Other (Ex	nt Material (F21) llow Dark Surface (F22)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf	eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed):		Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	ıless distu	Red Pare Very Sha Other (Ex	nt Material (F21) llow Dark Surface (F22)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf All Indicators of Restrictive L Type:	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwa	у	Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	nless distu	Red Pare Very Sha Other (Ex	ent Material (F21) Ilow Dark Surface (F22) oplain in Remarks)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Blindicators of Restrictive L	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwa		Depleted Dark Redox Depress Marl (F10) (LR	Surface sions (Fa	(F7) 8)	ıless distu	Red Pare Very Sha Other (Ex	ent Material (F21) Ilow Dark Surface (F22) oplain in Remarks)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf 3Indicators of Restrictive L Type: Depth (indicators)	eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadway ches):	у О	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fa R K, L)	(F7) 8) resent, ur		Red Pare Very Sha Other (Ex	ent Material (F21) Ilow Dark Surface (F22) Explain in Remarks) The second of the se
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf 3Indicators of Restrictive L Type: Depth (indicators) Remarks: This data form	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadway ches):	y 0 central a	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fa R K, L)	(F7) 8) resent, ur	Version :	Red Pare Very Sha Other (Ex	ent Material (F21) Ilow Dark Surface (F22) oplain in Remarks)
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Sandy Re Stripped I Dark Surf Restrictive L Type: Depth (inc Remarks: This data form Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Illow Dark Surface (F22) Explain in Remarks) The state of the
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Sandy Re Stripped I Dark Surf Restrictive L Type: Depth (inc Remarks: This data form Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadway ches):	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the s
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf 3Indicators of Restrictive L Type: Depth (inc Remarks: This data forn Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the s
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf 3Indicators of Restrictive L Type: Depth (inc Remarks: This data forn Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the s
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Sandy Re Stripped I Dark Surf Restrictive L Type: Depth (inc Remarks: This data form Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Illow Dark Surface (F22) Explain in Remarks) The state of the
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Sandy Re Stripped I Dark Surf Restrictive L Type: Depth (inc Remarks: This data form Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Illow Dark Surface (F22) Explain in Remarks) The state of the
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bestrictive L Type: Depth (inc Remarks: This data forn Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Ilow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Sandy Re Stripped I Dark Surf Restrictive L Type: Depth (inc Remarks: This data form Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Ilow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bestrictive L Type: Depth (inc Remarks: This data forn Version 7.0, 2	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	th Material (F21) Ilow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bark Surf Bark Surf Comparison of Restrictive L Type: Depth (incomparison of the comparison of the compar	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bark Surf Bark Surf Comparison of Restrictive L Type: Depth (incomparison of the comparison of the compar	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bark Surf Bark Surf Comparison of Restrictive L Type: Depth (incomparison of the comparison of the compar	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the sec
Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf Bark Surf Bark Surf Comparison of Restrictive L Type: Depth (incomparison of the comparison of the compar	leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) hydrophytic vegetation ayer (if observed): Roadwar ches): m is revised from North 2015 Errata. (http://www.	y 0 central a w.nrcs.u	Depleted Dark Redox Depress Marl (F10) (LR etland hydrology mu	Surface sions (Fi R K, L) ust be pr	(F7) 8) resent, ur	Version 2	Red Pare Very Sha Other (Extended or problematic. Hydric Soil Present 2.0 to include the NRC 22_051293.docx)	ent Material (F21) Illow Dark Surface (F22) Explain in Remarks) The second of the sec



Upland GP6-J



Upland GP6-J- Soils

Supplemental Delineation Package 6

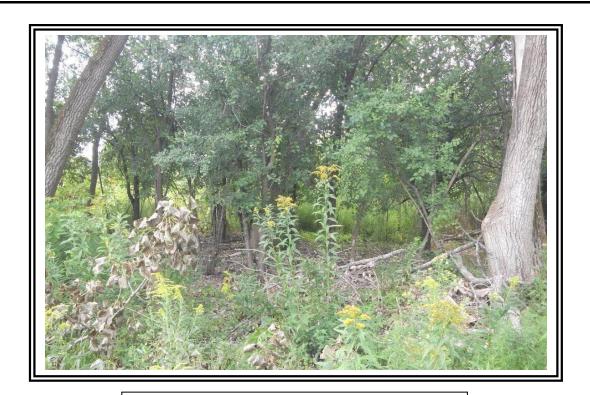
SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Bailey Street	City/County: Coxsackie/ Greene Sampling Date: 8/30/2022
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-K-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Coxsackie
	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,21',08.00' 'N	
Soil Map Unit Name: Shaker very fine sandy 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 distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (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	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No X Depth (inches)	: Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

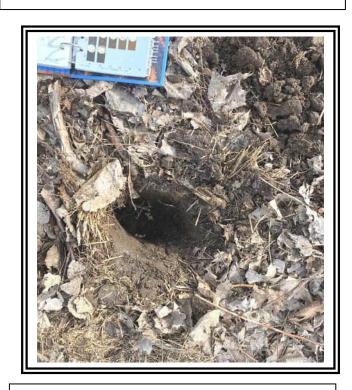
	Absolute	Dominant	Indicator			
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:		
. Populus deltoides	15	Yes	FAC	Number of Dominant Species		
. Ulmus americana	10	Yes	FACW	That Are OBL, FACW, or FAC: 6 (A)		
	_			Total Number of Dominant Species Across All Strata: 8 (E		
·				Species Across All Strata: 8 (B)		
·				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B		
				Prevalence Index worksheet:		
	25	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size:)			OBL species x 1 =		
Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =		
Fraxinus americana	5	Yes	FACU	FAC species x 3 =		
Cornus alba	5	Yes	FACW	FACU species x 4 =		
				UPL species x 5 =		
	_			Column Totals: (A)(E		
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size:)				X 2 - Dominance Test is >50%		
Phragmites australis	5	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹		
Onoclea sensibilis	5	Yes		4 - Morphological Adaptations ¹ (Provide supportine data in Remarks or on a separate sheet)		
·				Problematic Hydrophytic Vegetation ¹ (Explain)		
i i		he present upless disturbed or pre				
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) or more in		
	_			diameter at breast height (DBH), regardless of height		
0 1.	_			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
2.	_					
7	10	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.		
/oody Vine Stratum (Plot size:)			Woody vines – All woody vines greater than 3.28 ft i		
. Toxicodendron radicans	5	Yes	FAC	height.		
	- ·	· -		Hydrophytic Vegetation		
				Present? Yes X No		
	5	=Total Cover				

SOIL Sampling Point GP6-K-Wet

		the de				itor or co	onfirm the absence of i	ndicators.)
Depth	Matrix	0/		x Featur		1 2	- .	D
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2/2	95	10YR 4/6	5	С	M	Loamy/Clayey	
								_
			<u></u>					
¹ Type: C=Co	oncentration, D=Deple	tion, RM	I=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B)	•				rie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		-			xy Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)	(111)	Loamy Mucky I			K K, L)		Surface (S9) (LRR K, L)
	Below Dark Surface (rk Surface (A12)	(A11)	Loamy Gleyed Depleted Matrix		F2)			anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		X Redox Dark Su		:6)			dic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		•			it Material (F21)
	edox (S5)		? Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			olain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetatio	n and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	.ayer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil Present	? Yes X No
Remarks:								
								Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://ww	w.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



Wetland GP6- K



Wetland GP6-K - Soils

Supplemental Delineation Package 6

SITE PHOTOGRAPHS

Project/Site: CHPE- Package 6- Bailey Street	City/County: Coxsackie/ Greene	Sampling Date: 8/30/2022				
Applicant/Owner: CHPE	State: NY	Sampling Point: GP6-K-Up				
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of					
• ` `	relief (concave, convex, none): Concave	Slope %: 0				
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,21',08.00' 'N	Long: -73°,49',01.00"	 Datum:				
Soil Map Unit Name: Shaker very fine sandy loam	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year?		explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysignificantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problems		,				
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, im	portant features, etc.				
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes	No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (r	minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Crack	s (B6)				
Surface Water (A1) Water-Stained Leaves (E	39) X Drainage Patterns	(B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (E	Moss Trim Lines (B16)				
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (·				
Sediment Deposits (B2) Oxidized Rhizospheres of		on Aerial Imagery (C9)				
Drift Deposits (B3) Presence of Reduced Iro		·				
Algal Mat or Crust (B4) Recent Iron Reduction ir						
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard ([·				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present?	Yes No _X_				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Pomorko						
Remarks:						

Fine a Other towns / Distriction 200 \	Absolute	Dominant	Indicator	Barriera Tantanada I		
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:		
Populus deltoides	10	Yes	FAC	Number of Dominant Species		
				That Are OBL, FACW, or FAC:5 (A)		
	-			Total Number of Dominant		
		. 		Species Across All Strata: 11 (B)		
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC: 45.5% (A/E		
	-			Prevalence Index worksheet:		
	10	=Total Cover		Total % Cover of: Multiply by:		
apling/Shrub Stratum (Plot size:15)				OBL species x 1 =		
Rubus occidentalis	20	Yes	UPL	FACW species x 2 =		
Populus deltoides	10	Yes	FAC	FAC species x 3 =		
·				FACU species x 4 =		
· <u></u>				UPL species x 5 =		
				Column Totals: (A) (E		
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size: 5)				2 - Dominance Test is >50%		
Solidago canadensis	25	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
Phragmites australis	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting		
. Arctium lappa	10	Yes	UPL	data in Remarks or on a separate sheet)		
. Artemisia vulgaris	10	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)		
. Centaurea stoebe	15	Yes	UPL	¹ Indicators of hydric soil and wetland hydrology must		
. Daucus carota	10	Yes	UPL	be present, unless disturbed or problematic.		
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) or more in		
				diameter at breast height (DBH), regardless of height		
0.				Sapling/shrub – Woody plants less than 3 in. DBH		
1.	-			and greater than or equal to 3.28 ft (1 m) tall.		
2.				Hart All back assess (assessed by all after assessed by		
	80	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.		
/oody Vine Stratum (Plot size: 15)		-				
. Vitis riparia	10	Yes	FAC	Woody vines – All woody vines greater than 3.28 ft i height.		
. Toxicodendron radicans	5	Yes	FAC			
				Hydrophytic		
				Vegetation Present? Yes No X		
•	15	=Total Cover		Tresent: TesNO_X		
		- I Otal Oovel				

SOIL Sampling Point GP6-K-Up

		the dep				tor or co	onfirm the absence of inc	dicators.)
Depth (inches)	Matrix Color (moist)	%		x Featur	es Type ¹	Loc ²	Toyturo	Domarka
(inches)	Color (moist)	70	Color (moist)	%	Туре	LOC	Texture	Remarks
0-12	10YR 3/3	100					Loamy/Clayey	
								_
¹Type: C=Co	oncentration, D=Deple	tion RM	=Reduced Matrix N	/IS=Mas	ked Sand	d Grains	² l ocation: PI =F	Pore Lining, M=Matrix.
Hydric Soil I	•	7.1.011, 1 1.111	Troduced Matrix, II	no mao	nou ounc	oranio.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	•			(- / (,		e Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	•	(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	•	High Chroma S	Sands (S	311) (LR F	R K, L)	Polyvalue B	elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)	·	Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dark S	urface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mangai	nese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont FI	oodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spod	ic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy R	edox (S5)	,	Redox Depress	•	8)		Very Shallo	w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (Expla	ain in Remarks)
Dark Sur	face (S7)							
31			- Al I be ender - I	4 1				
	hydrophytic vegetatio	on and we	etiand nydrology mi	ust be pr	esent, ur	ness dist	urbed or problematic.	
Type:	.ayer (if observed):							
· · -								
Depth (in	iches):						Hydric Soil Present?	Yes No _X
Remarks:								
	m is revised from Nort 2015 Errata. (http://wv							Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (Http://wv	ww.iiics.c	isua.gov/internet/F	3E_DOC	OIVIEINI	3/11105 14/	2p2_031293.docx)	