

Upland TE- View facing East.



Upland TE Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 7	City/County: Catskill Sampling Date: 12/13/21
Applicant/Owner: CHA	State: NY Sampling Point: KC-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: 42.16532	Long: -73.91650 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 disturb	ped? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present?	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland KC	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (0	
Sediment Deposits (B2) Oxidized Rhizospheres of X Presence of Reduced Iro	
Drift Deposits (B3) X_ Presence of Reduced Iro Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	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-	vious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: KC-2 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. **FACU** Juniperus virginiana 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. 66.7% (A/B) Prevalence Index worksheet: 20 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species Cornus sericea Yes **FACW** species 130 x 2 = 1. **FACW** 260 2. FAC species 0 x 3 = 0 20 3. FACU species x 4 = 4. UPL species x 5 = 5. Column Totals: 150 (A) 340 6. Prevalence Index = B/A = 2.27 **Hydrophytic Vegetation Indicators:** 40 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ Onoclea sensibilis **FACW** 2. Phragmites australis Yes **FACW** 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. **Definitions of Vegetation Strata:** 7. 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. 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: 30 Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation Present? No Yes x =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

US Army Corps of Engineers

SOIL Sampling Point KC-2

	• •	the dep				ator or co	onfirm the absence of in	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture	Remarks
					Туре			
0-16	10yr 4/1	70	10yr 5/6	30			Loamy/Clayey	Prominent
¹ Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, M	/IS=Mas	ked San	d Grains.		Pore Lining, M=Matrix.
Hydric Soil I								Problematic Hydric Soils ³ :
Histosol (•		Polyvalue Belo		ce (S8) (l	LRR R,		(A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B)	,				ie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S Loamy Mucky I					Selow Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface ((Δ11)	Loamy Gleyed			KK, L)		Surface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	-	X Depleted Matrix		,12)			loodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		- 6)			lic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					Material (F21)
	edox (S5)		Redox Depress					w Dark Surface (F22)
	Matrix (S6)		 Marl (F10) (LR l		,			ain in Remarks)
Dark Sur	face (S7)						<u>—</u>	
³ Indicators of	hydrophytic vegetatio	n and w	etland hydrology mu	ıst be pr	resent, u	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								



Wetland KC- View facing South

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Date:	June 7, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-KC-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill			
Landform (hillslope,	•	Terrace			f (concave, con			Slope (%): 1	
	·	•			•	•		Slope (%)1	
Subregion (LRR or I		LRR R		Lat: 42.164785	°N	Long: 73.916718°W			
Soil Map Unit Name								Mapped	
Are climatic / hydrol	ogic conditions on	the site typical for	r this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)		
Are Vegetation	, Soil X	, or Hydrology	signi	ificantly disturbed	?	Are "Normal Circumstances	" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (1	lf needed, explain any ansv	vers in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	າ site map ເ	showing sam	pling point	locations, transect	s, important f	features, etc.	
Hydrophytic Vege	atation Present?	Yes	X No		Is the Sampl	od Araa			
Hydric Soil Preser		-	No		within a Wet		No	<u>X</u>	
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:			
Remarks: (Explain a		-			,, -,				
HYDROLOGY Wetland Hydrolo	pay Indicators:					Secondar	rv Indicators (minir	num of two required)	
_		in required; check	(vall that anniv)					full of two requires,	
	s (minimum of one	is required, check		Stained Leaves (E	20)		Soil Cracks (B6) ge Patterns (B10)		
Surface Water T				39)		rim Lines (B16)			
Saturation (A				c Fauna (B13) eposits (B15)		Dry-Season Water Table (C2)			
Water Marks	•			gen Sulfide Odor ((C1)	Crayfish Burrows (C8)			
Sediment De			_	ed Rhizospheres		<u> </u>			
Drift Deposits				nce of Reduced Iro	=		or Stressed Plant	= : : :	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C	Geomo	rphic Position (D2))	
Iron Deposits	s (B5)		Thin M	luck Surface (C7)		Shallow	Aquitard (D3)		
	isible on Aerial Im		Other ((Explain in Remar	ks)	Microto	pographic Relief ([04)	
Sparsely Veg	getated Concave S	Surface (B8)				FAC-Ne	eutral Test (D5)		
Field Observation									
Surface Water Pre		Yes No							
Water Table Prese		Yes No	·			Wetland Hydrology Pr	esent? Yes	No X	
Saturation Presen		Yes No	X Depth	(inches):					
(includes capillary Describe Recorde	rtringe) ed Data (stream ga	auge monitoring w	uall perial photo	os previous inspe	notions) if avail	ahla:			
Describe Records	U Dala (Siloum go	luge, monitoring	leli, atriai prioc	JS, PIEVIOUS IIISPO	titions, navan	able.			
Remarks:									
No wetland hydr	rology present a	t the Data Point							

Sapling/Shrub Stratum (Plot size: 15 ft.)

Lonicera morrowii

Herb Stratum (Plot size: 5 ft.)

Woody Vine Stratum (Plot size: 30 ft.)

2. Alliaria petiolata

3. Trifolium repens

Tree Stratum (Plot size: 30 ft.)

Rhus typhina
 Ulmus americana

Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 10	x 3 = 0							
Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 10								
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species O FACW species 10								
Prevalence Index worksheet: Total % Cover of: OBL species OBL species 10	Multiply by: $x = 0$ $x = 20$ $x = 0$							
Total % Cover of: OBL species 0 FACW species 10	$x 1 = 0$ $x 2 = \frac{20}{0}$ $x 3 = 0$							
FACW species 10	x = 20 x = 0							
FACW species 10	x = 20 x = 0							
•	x 3 = 0							
FAC species 0	× 4 – 460							
FACU species 115	X 4 = 400							
UPL species 35	x 5 = 175							
Column Totals: 160	(A) <u>655</u> (B)							
Prevalence Index = B/A = 4	4.09							
X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
Definitions of Vegetation Strata Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardles:	m) or more in diameter							
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-wood size, and woody plants less than	= =							
Woody vines – All woody vines g height.	greater than 3.28 ft in							
Hydrophytic Vegetation Present? Yes _	X_ No							

3			Present?	Yes	<u> </u>	No
4						
	0	= Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)						
No hydrophytic vegetation found at the Data Point.						

Absolute Dominant Indicator

 % Cover
 Species?
 Status

 35
 Yes
 UPL

10 Yes FACW

45 = Total Cover

25 Yes FACU

_____ = Total Cover

_____15 Yes FACU

 1. Ambrosia artemisiifolia
 45
 Yes
 FACU

4. Rubus idaeus 15 No FACU

15 No FACU

SOIL Upland Sampling Point: DP-KC-

ches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	Depth	ption: (Describe to the Matrix	•		Features			,		
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A3) Phidrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) MILRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (If observed): Type: Compaction Depth (inches): 3 Hydric Soil Present? Yes No X marks:	(inches)		%			Type ¹	Loc ²	Texture	Rema	rks
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A3) Phidrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) MILRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (If observed): Type: Compaction Depth (inches): 3 Hydric Soil Present? Yes No X marks:	3	10YR 3/2	100					Silt	Gravel refusal	
Aric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Peleted Dark Surface (F7) Polymore Mesic Spodic (TA6) (MLRA 1449, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Park Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Compaction Depth (inches): 3 Hydric Soil Present? Yes No X	<u> </u>	10111 0,2						<u> </u>	<u>Oravor rollada</u>	
Aric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Peleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Peleted Dark Surface (F7) Polymore Mesic Spodic (TA6) (MLRA 1449, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Park Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Compaction Depth (inches): 3 Hydric Soil Present? Yes No X										
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Histosol (A1)			, inivi=reduc	eu manix, mo=maske	a Janu Gidli	13.				
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) MERA 149B) MIRA 149B) Some Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Compaction Depth (inches): 3 Mydric Soil Present? Yes No X Mara 149B) Coast Prairie Redox (A16) (LRR K, L, R) Sch Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144B) Other (Explain in Remarks) Hydric Soil Present? Yes No X Mara 149B) Mara 149B) Thin Dark Surface (S7) (LRR K, L, R) Dark Surface (S7) (LRR R, MLRA 149B)				Polyvalue Relow	Surface (So	(IRR P			•	
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Strictive Layer (if observed): Type: Compaction	dicators of h	nydrophytic vegetation a	nd wetland l	ovdrology must be pres	sent unless	disturbed o	r problemat	ic		
Type: Compaction Depth (inches): 3 Hydric Soil Present? Yes No X			na monana i	.ya.o.ogyaot 20 p.oc	, o. n., u. n. o. o	4.0.0.000	- problemat	1		
Depth (inches): 3 Hydric Soil Present? Yes No X marks:		• • •								
marks:			-					Hydric Soil P	resent? Yes	No. X
	Deptil (illoi	163). 3						Tryunc 30111		NO <u>X</u>
		g past 3 inches due to	gravel ref	usal, no hydric soils	present at	the Data	Point.			



Upland KC- View facing North.



Upland KC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - FS Area 13 - MP 226.3	City/County: Catskill/ Greene Sampling Date: 1/24/23
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-13- Wet
Investigator(s): K. Weiskotten	Section, Township, Range: Town of Catskill
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0
<u></u>	Long: 73°,54',59.86"W 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 disturb	
Are Vegetation, Soil, or Hydrology significantly distributions and the 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 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.)	
PSS portion of	
Wetland KC.	
LIVEROLOGY	
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 (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	——————————————————————————————————————
Sediment Deposits (B2) Oxidized Rhizospheres of Parkers of Reduced by Sediment Deposits (B2)	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in This Mark Surface (O7)	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	where the man the man is the small and the
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Tromano.	

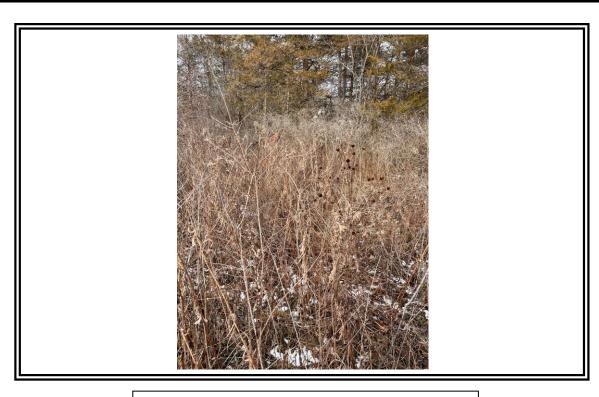
VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	15	Yes	FAC	
Ulmus americana	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 10 (A)
3. Juniperus virginiana	5	Yes	FACU	
4.				Total Number of Dominant Species Across All Strata: (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 83.3% (A/B)
7.				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)	_			OBL species x 1 =
1. Viburnum recognitum	15	Yes	FAC	FACW species x 2 =
2. Cornus amomum	20	Yes	FACW	FAC species x 3 =
3. Populus deltoides	5	No	FAC	FACU species x 4 =
4. Lonicera tatarica	5	No	FACU	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:)				X 2 - Dominance Test is >50%
1. Lythrum salicaria	10	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
2. Symphyotrichum novae-angliae	5	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Solidago canadensis	5	Yes	FACU	data in Remarks or on a separate sheet)
4. Rudbeckia laciniata	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Lysimachia nummularia	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
6. Poa palustris	5	Yes	FACW	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	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
1. Vitis riparia	10	Yes	FAC	height.
2.				Hydrophytic
3				Vegetation
4				Present?
	10	=Total Cover		
Remarks: (Include photo numbers here or on a separate	ate sheet.)			

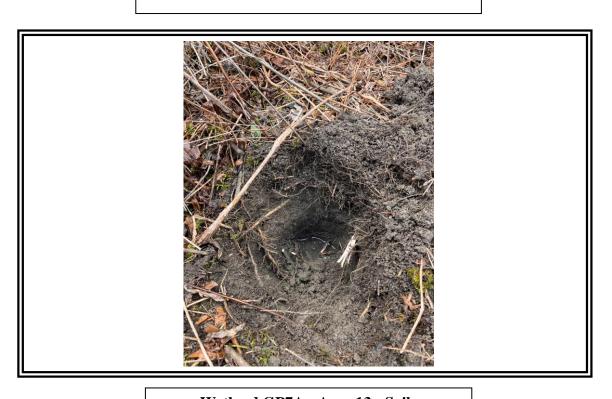
Sampling Point: P7A-13- Wet

SOIL Sampling Point P7A-13- Wet

		o the de				tor or co	onfirm the absence of ind	licators.)
Depth	Matrix	0/		x Featur		1 - 2	T t	Damada
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	7.5YR 3/1	100					Loamy/Clayey	
3-16	10YR 3/1	100					Loamy/Clayey	
								_
¹ Type: C=C	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		ore Lining, M=Matrix.
Hydric Soil								roblematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•	\	MI DA 4		Redox (A16) (LRR K, L, R)
	stic (A3) en Sulfide (A4)		Thin Dark Surf High Chroma S		-			Peat or Peat (S3) (LRR K, L, R) elow Surface (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky					urface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			(it, _)		ese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(,	X Depleted Matri		. –,			podplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		⁻ 6)			c (TA6) (MLRA 144A, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent I	Material (F21)
	Redox (S5)		Redox Depres		8)			/ Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Expla	in in Remarks)
Dark Su	rface (S7)							
³ Indicators o	f hydrophytic vegetati	on and v	vetland hydrology mi	ist he nr	esent ur	nlace dieti	irhed or problematic	
	Layer (if observed):	on and v	retaile Hydrology Inc	dot bo pi	Coorit, di	iledo diot	arbed of problematic.	
Type:	,							
Depth (ii	nches):						Hydric Soil Present?	Yes X No
Remarks:							<u> </u>	
	m is revised from No	thcentra	and Northeast Reg	ional Su	pplement	Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,
	2015 Errata. (http://w			SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	
There was 1	0 inches of water in the	ne noie d	ug 16 inches.					



Wetland GP7A - Area 13



Wetland GP7A - Area 13 - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

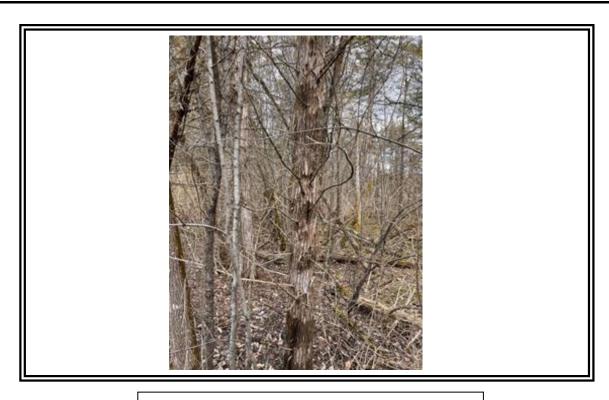
Project/Site: CHPE- Package 7A - FS Area 13 - MP 226.3	City/County: Catskill/ Greene Sampling Date: 1/24/23
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-13-Up
Investigator(s): K. Weiskotten	Section, Township, Range: Town of Catskill
• ` `	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,09',50.14"N	Long: 73°,54',59.86"W Datum:
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 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.)	
Upland data point for PSS	
portion of Wetland KC.	
portion of Wottana No.	
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	39) 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 Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	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	
Describe recorded Data (Stream gauge, monitoring well, acrial photos, pre	vious inspections), it available.
Remarks:	

VEGETATION – Use scientific names of plants.

'roo Ctrotum (Dlot -::	Absolute	Dominant Species?	Indicator	Dominana Tast
ree Stratum (Plot size:) Fraxinus americana	% Cover	Species?	Status	Dominance Test worksheet:
	25	Yes	FACU	Number of Dominant Species
Juniperus virginiana	25	Yes	FACU	That Are OBL, FACW, or FAC: (A)
-	_			Total Number of Dominant
	_			Species Across All Strata: 6 (B)
				Percent of Dominant Species
	_			That Are OBL, FACW, or FAC: 33.3% (A/I
	_			Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size:	_)			OBL species x 1 =
Rhamnus cathartica	20	Yes	FAC	FACW species x 2 =
Fraxinus americana	5	No	FACU	FAC species x 3 =
Lonicera tatarica	15	Yes	FACU	FACU species x 4 =
	_			UPL species x 5 =
	_			Column Totals: (A)
				Prevalence Index = B/A =
	_			Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:)				2 - Dominance Test is >50%
Fragaria virginiana	5	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide support
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
				1 Indicators of hydric coil and wotland hydrology mus
				¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree Meadurilants 2 in (7 Cam) an mann in
				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.
<u></u>	_			
		=Total Cover		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:				
Toxicodendron radicans	- [/] 5	Yes	FAC	Woody vines – All woody vines greater than 3.28 ft height.
	_	100	1710	no.gra.
	_			Hydrophytic
	_			Vegetation Present? Yes No _ X
		=Total Cover		100 NO
	J	- I Olai Covei		

SOIL Sampling Point P7A-13-Up

Profile Desc Depth	cription: (Describe t Matrix	to the de		ı ment tl x Featur		itor or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-2	10YR 3/2	100					Loamy/Clayey	
2-10	10YR 3/3	100					Loamy/Clayey	
10-16	10YR 4/4	100					Loamy/Clayey	
							- <u></u> <u></u>	
1								
1- 0.0							2	
'Type: C=C Hydric Soil	oncentration, D=Depl	etion, RN	∕/I=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.	² Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric S	•
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLI	
	oipedon (A2)		MLRA 149B		() (,	Coast Prairie Redox (A16) (LRR	•
Black Hi	stic (A3)		Thin Dark Surfa		-		5 cm Mucky Peat or Peat (S3) (L	RR K, L, R)
	en Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LI	•
	d Layers (A5)		Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, I	-
	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (L	-
	ark Surface (A12)		X Depleted Matrix		·6)		Piedmont Floodplain Soils (F19)	
	Mucky Mineral (S1) Bleyed Matrix (S4)		Redox Dark Su Depleted Dark		-		Mesic Spodic (TA6) (MLRA 144A Red Parent Material (F21)	(, 145, 1456)
	Redox (S5)		Redox Depress				Very Shallow Dark Surface (F22)	•
	Matrix (S6)		Marl (F10) (LR		-,		Other (Explain in Remarks)	
	rface (S7)			,			<u> </u>	
³ Indicators o	f hydrophytic vegetat	ion and v	vetland hydrology mi	ıst be pr	esent ur	nless dist	turbed or problematic.	
	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Present? Yes	No X
Version 7.0,	m is revised from No 2015 Errata. (http://w 0 inches of water in t	ww.nrcs	.usda.gov/Internet/FS				2.0 to include the NRCS Field Indicators of Hyd 2p2_051293.docx)	dric Soils,



Upland GP7A – Area 13



Upland GP7A -Area 13 - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Green	е	Sampling Date:	August 24, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GG		
Investigator(s):	Tristen Petersor	1		Section, To	ownship, Range	e: Catskill				
	-						Concave	Slone (%): 1		
Landform (hillslope,	·	Depression			f (concave, con	_		Slope (%): 1		
Subregion (LRR or I		LRR R		Lat: 42.163531	°N	Long: 73.918053	°W	Datum: NAD83		
Soil Map Unit Name	: KrB - Kingsb	oury and Rhinebeck	soils, 3 to 8 p	ercent slopes			NWI classification: Not	Mapped		
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ear? Yes	X N	o (If no,	explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	sigr	nificantly disturbed	? 4	Are "Normal Circum	nstances" present?	Yes X No		
		, or Hydrology	<u></u>			f needed, explain a	any answers in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	ı site map	showing sam	pling point	locations, tra	ansects, important	features, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area				
Hydric Soil Presei		Yes	X No	-	within a Wetl		Yes X No			
Wetland Hydrolog		Yes	X No		If yes, optiona	al Wetland Site ID:	GG			
HYDROLOGY										
								· · · · · · · · · · · · · · · · · · ·		
Wetland Hydrolo							Secondary Indicators (min	<u> </u>		
		e is required; check					Surface Soil Cracks (B6)			
Surface Wate				r-Stained Leaves (E	B9)		Drainage Patterns (B10)			
High Water 1				ic Fauna (B13)			Moss Trim Lines (B16)			
Saturation (A	-			Deposits (B15)	(04)	Dry-Season Water Table (C2)				
Water Marks	-			ogen Sulfide Odor (Crayfish Burrows (C8) Saturation Visible on Aerial Imageny (C9)				
Sediment De Drift Deposits				zed Rhizospheres of ence of Reduced Iro	_	oots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Algal Mat or			_	nt Iron Reduction in	, ,					
Iron Deposits	• •			Muck Surface (C7)	· ·	-0) <u></u>	Shallow Aquitard (D3)	<u>-)</u>		
I —	isible on Aerial Im	nagery (B7)		(Explain in Remar		X Microtopographic Relief (D4)				
	getated Concave			(=/	,		FAC-Neutral Test (D5)	(2.)		
Field Observatio										
Surface Water Pre		Yes No	X Depti	h (inches):						
Water Table Pres	ent?	Yes No				Wetland Hydro	ology Present? Yes	. X No		
Saturation Presen		Yes No	·							
(includes capillary										
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial phot	tos, previous inspe	ections), if availa	able:				
Remarks:										
Wetland hydrolo	ogy present at th	ne Data Point.								

VEGETATION – Use scientific names of plants.					S	ampling Point: DP-GG
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test	t worksheet:	
1				Number of Domin		4(A)
2				Total Number of		
3				Species Across A		4(B)
5				Percent of Domir That Are OBL, FA		(A/B)
6				Prevalence Inde	ex worksheet:	
7		= Total Cover		Total % Cov	ver of: 0	Multiply by: x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)		= Total Cover		FACW species	80	
Frangula alnus	35	Yes	FAC	FAC species	60	
				FACU species	20	x 4 = 80
2. Cornus racemosa		Yes	FAC	UPL species	0	x 5 = 0
3				Column Totals:	160	(A) <u>420</u> (B)
4				Prevalence	e Index = B/A = :	2.62
5				Hydrophytic Ve	getation Indicat	tors:
7					est for Hydrophy	
				X 2 - Dominar	nce Test is >50%	6
	60	= Total Cover		X 3 - Prevaler		
Herb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting separate sheet)
1. Equisetum pratense	40	Yes	FACW			
Phragmites australis	40	Yes	FACW	Problemation	Hydrophytic Ve	egetation ¹ (Explain)
3. Solidago canadensis	10	No	FACU			land hydrology must
4. Parthenocissus quinquefolia			FACU	be present, unles		
5				Definitions of V	_	
6				at breast height (=	n) or more in diameter ss of height.
8.				Sapling/shrub – and greater than		ess than 3 in. DBH
9				_		dy) plants, regardless of
10				size, and woody	plants less than	3.28 ft tall.
12				Woody vines – A height.	All woody vines o	greater than 3.28 ft in
	100	= Total Cover				
Woody Vine Stratum (Plot size: 30 ft.)						
1						
2				Hydrophytic Vegetation		
3				Present?	Yes _	X No
4.						
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a separate sheet.)			•	•		
Hydrophytic vegetation found at the Data Point.						

SOIL Sampling Point: DP-GG Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/1 80 7.5YR 6/8 Silt Loam 0-8 10YR 4/1 7.5YR 6/8 70 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Wetland hydrology present at the Data Point.



PSS Wetland GG- View facing South.



PEM Wetland GG- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

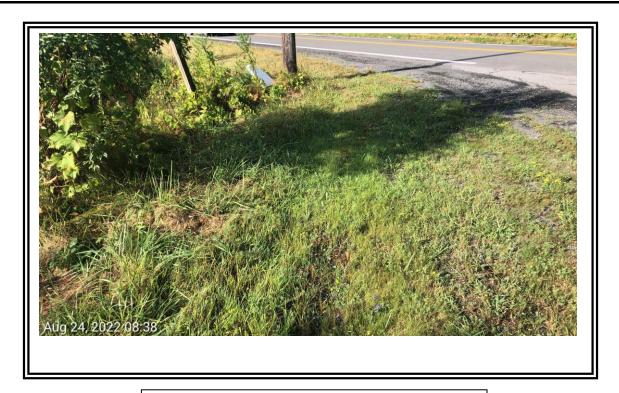
WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Hud	son Express			City/Coun	ity: Green	е		Sampling Date:	August 24, 20	22
Applicant/Owner:	CHA				State:	NY			Sampling Point:	DP-GG-Uplan	d
Investigator(s):	Tristen Peterson Section, Township, Range: Catskill										
Landform (hillslope	terrace, etc.):	Terrace			Local relief	(concave, conv	vex. none):	Convex		Slope (%):	1
Subregion (LRR or	·	LRR R		Lat	t: 42.163795°		Long: 73.9179			Olopo (70): Datum: NAD8	33
• •			!!la 2 to !			IN .	LONG. 10.0110		" ti-n. Not N		/C
Soil Map Unit Name		bury and Rhinebec			•			NWI class		Mapped	
Are climatic / hydro	-	• •		-				no, explain in	•		
Are Vegetation _	, Soil	, or Hydrology	s	ignificar	ntly disturbed?	? A	re "Normal Circ	cumstances"	oresent?	Yes X No)
Are Vegetation	, Soil	, or Hydrology	n	aturally	problematic?	· (If	f needed, explai	in any answe	rs in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attacl	h site ma	p sho	wing sam	pling point	locations,	transects	, important f	eatures, etc.	,
Hydrophytic Vege	etation Present?	Yes	1	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes		<u> </u>	X	within a Wetl		Yes	No _	Х	
Wetland Hydrolog		Yes		No	Х	If yes, optiona	al Wetland Site I	ID:			
- W2201 00V											
HYDROLOGY											
Wetland Hydrolo										num of two requir	ed)
-		e is required; chec							Soil Cracks (B6)		
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)											
High Water					una (B13)		_		n Lines (B16)		
Saturation (/	-			-	sits (B15)				on Water Table ((C2)	
Water Marks				_	Sulfide Odor (•	Crayfish Burrows (C8)				
Sediment De Drift Deposit					-	on Living Roots	cots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Algal Mat or	* *				of Reduced Iro	n in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposit					Surface (C7)						
	/isible on Aerial Ir	nagery (B7)			lain in Remark						
	egetated Concave	. , ,	_	o. (-		,	FAC-Neutral Test (D5)				
Field Observation							_	_			
Surface Water Pr		Yes No	X De	pth (inc	:hes):	[
Water Table Pres	sent?	Yes No					Wetland Hy	drology Pre	sent? Yes	No _	Х
Saturation Preser		Yes No									_
(includes capillary		gauge, monitoring v	···-!! coriol of	- stop p	ious inono		- Lla.				
Describe Recorde	ed Data (stream g	auge, monitoring v	veii, aeriai pr	iotos, p	revious inspe	ctions), if availa	able:				
Remarks: No wetland hyd	Irology present	at the Data Poin	t.								

	Absolute	Dominant	Indicator	1 .	
ee Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test worksheet:	
				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A
				Total Number of Dominant	4 (5
				Species Across All Strata:	1(B
				Percent of Dominant Species	0 //
				That Are OBL, FACW, or FAC:	(A
				Duning and the days were also be a st	
				Prevalence Index worksheet: Total % Cover of:	: Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
oling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
				FAC species 0	
					x 4 = 400
					x 5 = 0
				Column Totals: 100	
				Odiumii Totais.	(//)
				Prevalence Index = B/A	= 4
				Hudronbutio Vozatelion India	
				Hydrophytic Vegetation Indic 1 - Rapid Test for Hydrop	
				2 - Dominance Test is >50	, ,
	0	= Total Cover		3 - Prevalence Index is ≤3	
b Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat	ions ¹ (Provide supporting
Lolium perenne	90	Yes	FACU	data in Remarks or on	a separate sheet)
T. ()				Problematic Hydrophytic	(Agetation 1 (Explain)
Trifolium repens			FACU		
				¹ Indicators of hydric soil and w	
				be present, unless disturbed or	problematic.
				Definitions of Vegetation Stra	ata:
				Tree – Woody plants 3 in. (7.6	cm) or more in diameter
				at breast height (DBH), regardl	ess of height.
				Sapling/shrub – Woody plants	class than 3 in DRH
				and greater than or equal to 3.3	
)				Herb – All herbaceous (non-wo	
·					
2.				Woody vines – All woody vine height.	s greater than 3.28 ft in
	100	= Total Cover			
	100	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic Vegetation	
				Present? Yes	No X
				Tresent. Tes	
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				
No hydrophytic vegetation found at the Data P	oint.				

SOIL Sampling Point: DP-GG-

Depth	iption: (Describe to the Matrix			x Features			,						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks				
0-3	10YR 4/3	100					Silt	Gravel					
	-												
				· ——									
				-									
			-										
¹ Type: C=Cor	ncentration, D=Depletion	RM=Reduc	ed Matrix MS=Maske	d Sand Grai			² I ocation:	PL=Pore Lining, M=Ma	atrix				
	•	i, rtivi=rtoduc	oca Matrix, MO-Maske	a cana cran	10.			or Problematic Hydric					
Hydric Soil Ir Histosol			Polyvalue Below	Surface (S8) (LRR R,								
	ipedon (A2)		MLRA 149B)	•	, , .		2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)						
Black His	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) Loamy Mucky Mineral (F1) (LRR K, L)							Dark S	urface (S7) (LRR K, L,	M)				
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Popleted Relay Park Surface (A44)								ue Below Surface (S8)					
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Park Surface (A40) Park Surface (A60)							ark Surface (S9) (LRR						
Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mysky Minoral (S1) Pepleted Dark Surface (F7)						anganese Masses (F12 ont Floodplain Soils (F1							
	Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8)							Spodic (TA6) (MLRA 1 4					
	edox (S5)		Noden Bepresen	5.1.0 (i. 0)				arent Material (F21)	,,				
	Matrix (S6)							hallow Dark Surface (TI	- 12)				
Dark Sur	face (S7) (LRR R, MLR	A 149B)					Other (Explain in Remarks)					
³ Indicators of	hydrophytic vegetation a	and wetland l	hydrology must be pre	sent, unless	disturbed o	r problemat	ic.						
Restrictive L	ayer (if observed):												
Type: Cor	mpaction												
Depth (inc	ches): 3						Hydric Soil P	resent? Yes	No <u>X</u>				
Remarks:							L.						
No hydric so	oils present at the Dat	a Point, co	uld not dig past 3 in	ches due to	o gravel re	efusal.							



Upland GG- View facing North.



Upland GG- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - FS Area 14 - MP 226.6	City/County: Catskill/ Greene Sampling Date: 1/24/23						
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-14-Wet						
Investigator(s): K. Weiskotten	Section, Township, Range: Town of Catskill						
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0						
	Long: 73°,55',05.15"W Datum:						
Soil Map Unit Name: Kingsbury and Rhinebeck	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 significantly distributions and the 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 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.)							
DEM nortion of							
PEM portion of							
Wetland KC.							
L 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 (B13) Agustic Found (B13)							
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Mark Deposits (B45) Mark Deposits (B45)							
X Saturation (A3) — Marl Deposits (B15) X Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizospheres of							
Drift Deposits (B3) Presence of Reduced Iro	——————————————————————————————————————						
Algal Mat or Crust (B4) Recent Iron Reduction 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 No X 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:							

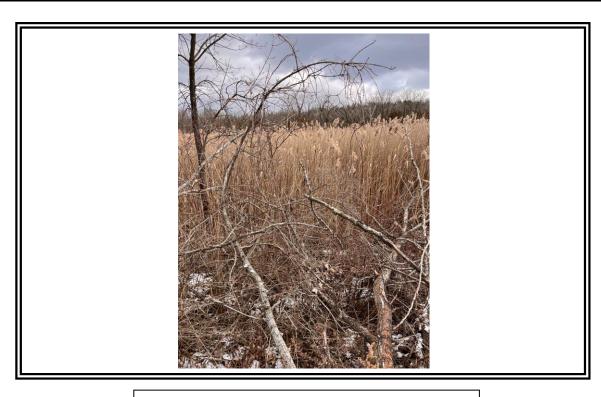
VEGETATION – Use scientific names of plants.

1. Fraxinus americana 5 2. Acer negundo 5 3. Juniperus virginiana 10 4. Populus deltoides 10 5. 30 6. 30 7. 30 2. Acer negundo 5 3. Populus deltoides 5 4. Lonicera tatarica 10 5. 25 6. 25 7. 25 Herb Stratum (Plot size:) 10 1. Lythrum salicaria 10 2. 3. Phragmites australis 80 4. 5. 6. 6.	Species? No No Yes	FACU FAC FACU FAC FACW FAC FAC FAC FACU FAC FACU FACU FACU FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
2. Acer negundo 5 3. Juniperus virginiana 10 4. Populus deltoides 10 5.	No Yes Yes Total Cover Yes Yes Yes Yes Yes Yes No	FACU FACW FAC FACU FACU OBL	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B) 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) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
3. Juniperus virginiana 10 4. Populus deltoides 10 5.	Yes Yes Yes Yes Yes Yes Yes Yes Yes Your Total Cover	FACU FACW FAC FAC FACU OBL	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 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 = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
4. Populus deltoides 10 5. 6 7 Sapling/Shrub Stratum (Plot size:) 1. Cornus amomum 5 2. Acer negundo 5 3. Populus deltoides 5 4. Lonicera tatarica 10 5. 6 7 Herb Stratum (Plot size:) 1. Lythrum salicaria 10 2 3. Phragmites australis 80 4 5	Yes Total Cover Yes Yes Yes Yes Yes Your Yes Yes Your Yes Yes Yes Yes Your Total Cover	FACW FAC FAC FACU	Species Across All Strata: 8 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B) 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) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
6.	Yes Yes Yes Yes Ootal Cover	FAC FACU OBL	That Are OBL, FACW, or FAC: 62.5% (A/B) 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) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
7. 30 = To Sapling/Shrub Stratum (Plot size:) 1. Cornus amomum	Yes Yes Yes Yes Ootal Cover	FAC FACU OBL	That Are OBL, FACW, or FAC: 62.5% (A/B) 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) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
30 =To	Yes Yes Yes Yes Ootal Cover	FAC FACU OBL	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) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
Sapling/Shrub Stratum (Plot size:	Yes Yes Yes Yes Ootal Cover	FAC FACU OBL	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 $x = B/A = $ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation $x = B/A = $ 1 - Rapid Test for Hydrophytic Vegetation $x = B/A = $ A - Prevalence Index is $x = B/A = $
1. Cornus amomum 5 2. Acer negundo 5 3. Populus deltoides 5 4. Lonicera tatarica 10 5.	Yes Yes Yes Your Service of the ser	FAC FACU OBL	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: 1 - Rapid Test for Hydrophytic Vegetation $x = A$ 2 - Dominance Test is >50% 3 - Prevalence Index is $\le 3.0^1$ 4 - Morphological Adaptations (Provide supporting)
2. Acer negundo 5 3. Populus deltoides 5 4. Lonicera tatarica 10 5.	Yes Yes Yes Your Service of the ser	FAC FACU OBL	FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
3. Populus deltoides 5 4. Lonicera tatarica 10 5. 6. 7. 25 =To Herb Stratum (Plot size:) 1. Lythrum salicaria 10 2. 3. Phragmites australis 80 4. 5. 6	Yes Yes Your Cover No	FAC FACU	FACU species $x 4 = $ UPL species $x 5 = $ Column Totals: (A) (B) Prevalence Index $= B/A = $ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation $x = 1 - $ $x =$
4. Lonicera tatarica 10 5. 6.	Yes Total Cover	FACU	UPL species x 5 =
5.	otal Cover	OBL	Column Totals:(A)(B) Prevalence Index = B/A =
6.	No		Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
7	No		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
25 = To Herb Stratum (Plot size:)	No		1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size:	No		X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
1. Lythrum salicaria 10 2. 3. Phragmites australis 80 4. 5.			3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
2.			4 - Morphological Adaptations ¹ (Provide supporting
3. Phragmites australis 80 4. 5.	Yes	FACW	
4	Yes	FACW	data in Remarks or on a separate sheet)
5.			
			Problematic Hydrophytic Vegetation ¹ (Explain)
6			¹ Indicators of hydric soil and wetland hydrology must
0.			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
	otal Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)	.,		Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus 5	Yes	UPL	height.
2			Hydrophytic
3			Vegetation
4	-		Present?
Remarks: (Include photo numbers here or on a separate sheet.)	otal Cover		

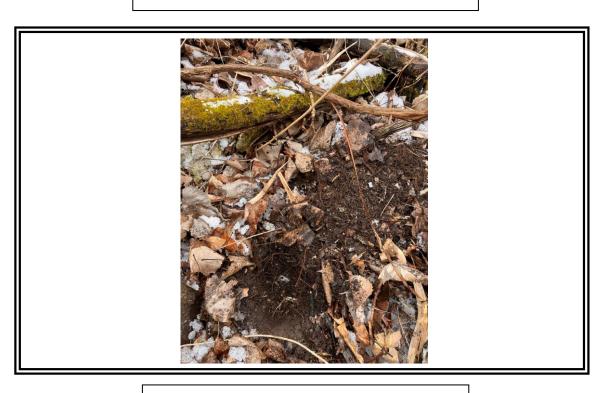
Sampling Point: P7A-14-Wet

SOIL Sampling Point P7A-14-Wet

		the de				tor or c	onfirm the absence of i	ndicators.)
Depth	Matrix	0/		x Featur		1 - 2	Taratana	Davisanta
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 2/1	100					Mucky Loam/Clay	
		<u>.</u>						
								_
		<u>.</u>						
								_
								_
¹ Type: C=Co	oncentration, D=Deplet	ion, RM	I=Reduced Matrix, N	1S=Mas	ked Sand	l Grains.		Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)			Coast Prai	rie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA	149B)5 cm Muck	ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	811) (LRF	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)
Stratified	I Layers (A5)		Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface (A11)	Loamy Gleyed	Matrix (F2)		Iron-Mang	anese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		X Depleted Matri	x (F3)				Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
	edox (S5)		Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		,			plain in Remarks)
	face (S7)			, ,				,
	()							
³ Indicators of	f hydrophytic vegetatior	n and w	etland hvdrologv mu	ıst be pr	esent. ur	nless dist	turbed or problematic.	
	_ayer (if observed):		, 0,	•	,		1	
Type:	, , , , , , , , , , , , , , , , , , , ,							
•	achoo).						Hudria Cail Dragant	2 Van V Na
Depth (ir	icnes):						Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
			-					Field Indicators of Hydric Soils,
	2015 Errata. (http://ww			SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	
There was it	0 inches of water in the	noie di	ug to inches.					



Wetland GP7A - Area 14



Wetland GP7A - Area 14 - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

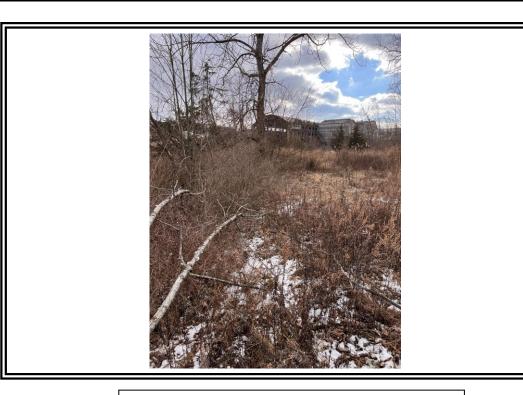
Project/Site: CHPE- Package 7A - FS Area 14 - MP 226.6	City/County: Catskill/ Greene Sampling Date: 1/24/23						
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-14-Up						
Investigator(s): K. Weiskotten	Section, Township, Range: Town of Catskill						
Landform (hillside, terrace, etc.): Lake Plains Local I	relief (concave, convex, none): Concave Slope %: 0						
	Long: 73°,55',05.15"W Datum:						
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 problema							
							
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.)							
Upland data point for PEM							
portion of Wetland KC.							
portion of Wettana No.							
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 (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizospheres of	s 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 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:						
Remarks:							

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1. Fraxinus americana	10	Yes	FACU	Number of Deminent Charles				
2. Populus deltoides	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)				
3. I.				Total Number of Dominant Species Across All Strata: 7 (B)				
i.								
S	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B				
,				Prevalence Index worksheet:				
	20	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size:)			OBL species x 1 =				
Lonicera tatarica	20	Yes	FACU	FACW species x 2 =				
Elaeagnus umbellata	15	Yes	UPL	FAC species x 3 =				
3.				FACU species x 4 =				
l				UPL species x 5 =				
5.				Column Totals: (A) (B				
S				Prevalence Index = B/A =				
,				Hydrophytic Vegetation Indicators:				
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size:)				2 - Dominance Test is >50%				
. Artemisia absinthium	25	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹				
Phragmites australis	10	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting				
3. Solidago canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)				
. Galium trifidum	5	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)				
5. <u>Dipsacus fullonum</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:				
3.				Tree – Woody plants 3 in. (7.6 cm) or more in				
9.				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, regardless				
		=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Noody Vine Stratum (Plot size:	_)			Woody vines – All woody vines greater than 3.28 ft in				
1. Celastrus orbiculatus	5	Yes	UPL	height.				
2				Hydrophytic				
3.				Vegetation				
4				Present? Yes No X				
	5	=Total Cover						

SOIL Sampling Point P7A-14-Up

ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Histosol (A1) Histosol (A1) Histosol (A2) Histosol (A2) High Chroma Sands (S11) (LRR K, L) High Chroma Sands (S11) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Depleted Dark Surface (A11) Loamy Mucky Mineral (F1) (Lark K, L) Think Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Redox (S5) Redox Depressions (F8) Mari (F10) (LRR K, L) Dark Surface (S7) Mari (F10) (LRR K, L) Dark Surface (S7) Mari (F10) (LRR K, L) Dark Surface (S7) Mari (F10) (LRR K, L) Dark Surface (F22) Other (Explain in Remarks) Hydric Soil Present? Yes No X	Depth	Matrix		Redo	x Featur	es					
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Histosol (A1) Histo Epipedon (A2) Black Histo (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Som Muck (A10) (LRR K, L, MLRA 149B) Som Muck (A10) (LRR K, L, MLRA 149B) Som Muck (A10) (LRR K, L, R) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F5) Sandy Macy Mineral (S1) Redox Dark Surface (F7) Redox Depressions (F8) Sandy Macy Mineral (S1) Redox Dark Surface (F7) Sandy Redox (S5) Mari (F10) (LRR K, L) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Selow Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Sandy Redox (F7) Depleted Dark Surface (F7) Depleted Dark	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stom 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) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pyerumarks: Inside ta form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	0-14	10YR 3/2	100					Loamy/Clayey	Very cobbly		
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Histosol (A1)			etion, RIV	I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.				
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Black Histic (A3)		` '				CE (OO) (I	LIXIX IX,				
Hydrogen Sulfide (A4)					•	(LRR R	MLRA 1				
Stratified Layers (A5)								· —			
Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 148 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Hydric Soil Present? Yes No X Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149) Mesic Spodic (TA6) (MLR					-						
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Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X Pemarks: Inis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Persion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)						⁻ 6)					
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. In a strictive Layer (if observed): Type: Depth (inches): Depth (inches): Demarks: Demarks: Dis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Ma	terial (F21)		
Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No X Emarks: Inis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Shallow D	ark Surface (F22)		
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X emarks: nis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explain in Remarks)			
estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X emarks: nis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Dark Sur	face (S7)									
estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X emarks: nis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)											
Type:		, , , ,	on and w	retland hydrology mu	ust be pr	esent, ur	nless dist	urbed or problematic.			
Depth (inches):		_ayer (if observed):									
emarks: his data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	· · -										
nis data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Depth (ir	nches):						Hydric Soil Present?	Yes No _X		
ersion 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Remarks:										
									d Indicators of Hydric Soils,		
nere was 10 inches of water in the hole dug 16 inches.					SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)			
	mere was n	Inches of water in th	e noie di	ug to inches.							



Upland GP7A – Area 14



Upland GP7A -Area 14 - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	9	Sampling Dat	te: August 24, 2022		
Applicant/Owner:	СНА	<u> </u>		State:	NY		Sampling Poin	nt: DP-GJ		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	: Catskill				
Landform (hillslope,		Depression		·	f (concave, conv		Concave	Slope (%):1		
						•		Slope (%)1		
Subregion (LRR or I	-	LRR R		Lat: 42.158558°	<u>"N L</u>	_ong: 73.91814				
Soil Map Unit Name		on and Vergennes					·	lot Mapped		
Are climatic / hydrole	ogic conditions or	n the site typical for	r this time of ye	ar? Yes	<u>X</u> No	(If no	o, explain in Remarks.)			
Are Vegetation	, Soil X	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circu	mstances" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	needed, explain	any answers in Remark	(S.)		
SUMMA	ARY OF FIND	INGS – Attach	h site map s	showing sam	pling point	locations, tr	ransects, importa	nt features, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ad Area				
Hydric Soil Preser		Yes	X No		within a Wetla		Yes X No	o		
Wetland Hydrolog		Yes	X No		If yes, optiona	I Wetland Site ID): <u>GJ</u>			
Remarks: (Explain a		-								
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					_		ninimum of two required)		
Primary Indicators	s (minimum of one	e is required; check	k all that apply)				Surface Soil Cracks (E	36)		
Surface Wate				-Stained Leaves (E	39)	<u>X</u>				
High Water T				c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	•			eposits (B15)		Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De				ed Rhizospheres o	_					
Drift Deposits Algal Mat or				nce of Reduced Iro	` '	Stunted or Stressed Plants (D1) Comparable Position (D2)				
Iron Deposits	` '			it Iron Reduction in luck Surface (C7)	1 Tilleu Jolis (Or	6) <u>X</u>	Geomorphic Position (Shallow Aquitard (D3)			
	s (B3) /isible on Aerial Im	nagery (B7)		(Explain in Remarl	·ks)	Shallow Aquitard (D3) Microtopographic Relief (D4)				
_	getated Concave			(Explain in troise.	K3)	_	FAC-Neutral Test (D5)			
Field Observation								,		
Surface Water Pre		Yes No	X_ Depth	ı (inches):						
Water Table Prese		Yes No				Wetland Hyd	rology Present? Y	es X No		
Saturation Presen		Yes No	·							
(includes capillary										
Describe Recorde	ed Data (stream ga	auge, monitoring w	vell, aerial photo	os, previous inspe	ctions), if availa	ıble:				
Remarks:										
Wetland hydrolo	ogy present at th	he Data Point.								

VEGETATION – Use scientific names of plants.					Sampling Point: DP-GJ			
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
1. Populus deltoides	15	Yes	FAC	Number of Domi That Are OBL, F.	2	_(A)		
2. 3.				Total Number of Dominant Species Across All Strata: Percent of Dominant Species		2	(B)	
4. 5. 6.							_(D)	
					That Are OBL, FACW, or FAC:		(A/B)	
				Prevalence Inde		Mulkiply by		
7		= Total Cover		Total % Co		$\frac{\text{Multiply by:}}{\text{x 1 = 0}}$	-	
) (OL OL (DL) 45 (t)		- Total Gover		· ·		$x = \frac{0}{200}$		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	15			
1				FACU species	0			
2				The state of the s				
3				UPL species	0		_	
4.				Column Totals:	115	(A) <u>245</u>	_ (B)	
5				Prevalence Index = B/A = 2.13				
					Hydrophytic Vegetation Indicators:			
					est for Hydrophy	=		
				X 2 - Dominai				
	0	= Total Cover		X 3 - Prevaler				
erb Stratum (Plot size: 5 ft.) 1. Phragmites australis	400	Van	FACIM		ns ¹ (Provide supporting separate sheet))		
2.					Problematic Hydrophytic Vegetation ¹ (Explain)			
3.				¹ Indicators of hydric soil and wetland hydrology must				
				be present, unless disturbed or problematic.				
4. 5.				Definitions of V	egetation Strata	a:		
6					_	m) or more in diameter		
7					at breast height (DBH), regardless of height.			
8.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
9								
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			of	
11				Woody vines –	All woody vines	greater than 3.28 ft in		
12.		T 0		height.				
Voody Vine Stratum (Plot size: 30 ft.)	100	= Total Cover						
,	,							
1				Hydrophytic				
2				Vegetation		ν		
3.				Present?	Yes _	X No		
4								
	0	= Total Cove	er					
Remarks: (Include photo numbers here or on a sep No hydrophytic vegetation found at the Data								
140 Hydrophytto Vogetation Touria at the Bata	i onic							

SOIL Sampling Point: DP-GJ Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 0-20 10YR 2/1 100 Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Dark gravel soils, no redox. Hydric soils present at the Data Point.



PEM Wetland GJ- View facing South.



PEM Wetland GJ- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Cour	nty: Green	ie	Sampling Date:	August 24, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GJ-Upland		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill				
Landform (hillslope,		Terrace			f (concave, con	•	nvex	Slope (%): 1		
	•									
Subregion (LRR or I	-	LRR R		Lat: 42.158649	<u>°N</u>	Long: 73.918290°W		Datum: NAD83		
Soil Map Unit Name	: HvC-Hudson	n and Vergennes s	oils, 8 to 15 per	rcent slopes		NV	VI classification: Not N	Mapped		
Are climatic / hydrole	ogic conditions or	n the site typical for	this time of year	ar? Yes	X N	lo (If no, ex	plain in Remarks.)			
Are Vegetation	, Soil X	or Hydrology	signi	ficantly disturbed	?	Are "Normal Circumsta	ances" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	lf needed, explain any	y answers in Remarks.)			
SUMMA	RY OF FIND	INGS – Attach	ı site map s	showing sam	pling point	t locations, tran	sects, important t	features, etc.		
Hydrophytic Vege	tation Procent?	Vec	No	х	Is the Sampl		-	-		
Hydric Soil Preser		_	No No		within a Wet		Yes No _	X		
Wetland Hydrolog		-	No		If ves optiona	al Wetland Site ID:				
Remarks: (Explain a	alternative proced	dures here or in a s	separate report.)			<u></u>				
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					Sec	condary Indicators (minin	num of two required)		
Primary Indicators	(minimum of one	e is required; check	all that apply)			Sı	urface Soil Cracks (B6)			
Surface Wate	er (A1)		Water-S	Stained Leaves (I	B9)	Dr	rainage Patterns (B10)			
High Water T	Table (A2)		Aquatio	c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	(3)		Marl De	eposits (B15)		X Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor (<u> </u>					
Sediment De	. , ,			zed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits	-			ce of Reduced Ir			tunted or Stressed Plant			
Algal Mat or	, ,			Iron Reduction in	•		eomorphic Position (D2))		
Iron Deposits	-	(57)			ck Surface (C7) Shallow Aquitard (D3)					
	isible on Aerial Imgetated Concave	• , , ,	Otner (Explain in Remar	·ks)		licrotopographic Relief ([AC-Neutral Test (D5)	04)		
		Sunace (Do)				<u> </u>	10-Neuliai Test (Do)			
Field Observation Surface Water Pre		Yes No	Y Depth	(inches).		I				
Water Table Prese		Yes No				Wetland Hydrolo	nav Prosent? Yes	No <u>X</u>		
Saturation Presen		Yes No				110000000000000000000000000000000000000	yy i rosoni.			
(includes capillary		165 1.5		(IIIoiioo).		I				
		auge, monitoring w	ell, aerial photo	os, previous inspe	ections), if avail	able:				
Remarks:	rology present :	at the Data Point	·							
	ology process	2 2 4 4 7 5 11 1	•							

Sapling/Shrub Stratum (Plot size: 15 ft.)

Herb Stratum (Plot size: 5 ft.)

2. Centaurea stoebe

1. Daucus carota

Tree Stratum (Plot size: 30 ft.)

. Achillea millefolium	20	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
0				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
oody Vine Stratum (Plot size: 30 ft.)	55	= Total Cover		Hydrophytic Vegetation Present? Yes NoX
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at the Data Point.	0	= Total Cover		
Army Corps of Engineers				Northcentral and Northeast Region – Version 2.0

Absolute Dominant

0 = Total Cover

= Total Cover

Yes

UPL

UPL

% Cover Species?

Indicator

Status

SOIL Sampling Point: DP-GJ-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/3 100 Silt Gravel ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction No X Depth (inches): 5 Hydric Soil Present? Yes Remarks: Could not dig past 5 inches due to compaction of gravel, no hydric soils present at the Data Point.



Upland GJ- View facing North.



Upland GJ- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express			City/Coun	nty: Greene			Sampling	Date:	June 6, 20	22	
Applicant/Owner:	СНА				State:	NY			Sampling	Point:	DP-LC-PE	.M	
Investigator(s):	Tristen Petersor	n			Section, To	ownship, Range:	Catskill						
Landform (hillslope,	. terrace. etc.):	Depression			Local relief	f (concave, convex	k. none):	Concave			Slope (%)):	1
Subregion (LRR or	•	LRR R			20041101101 Lat: 42.153924°		ng: 73.92001				Datum: NA		
• •										N1.4 N		1000	
Soil Map Unit Name		nd Vergennes silty						-	ssification:		Mapped		
Are climatic / hydrol	logic conditions or	n the site typical for	this time	of year	? Yes	<u>X</u> No _	(If no	o, explain	in Remark	(s.)			
Are Vegetation	, Soil	, or Hydrology		signific	cantly disturbed	? Are	"Normal Circu	ımstances	" present?	,	Yes X	No	
Are Vegetation	, Soil	, or Hydrology		_natura	Ily problematic?	(If ne	eeded, explain	n any ansv	wers in Re	marks.)			
SUMMA	ARY OF FIND	INGS – Attach	ı site m	ap sh	nowing sam	pling point lo	cations, ti	ransect	s, impo	rtant f	eatures, e	etc.	
Hydrophytic Vege	etation Present?	Yes	Х	No		Is the Sampled	Area						
Hydric Soil Prese		Yes	X	No _		within a Wetlan		Yes	Х	No _			
Wetland Hydrolog		Yes _		No _	Х	If yes, optional W	Vetland Site I□) :	LC				_
F LIVI WORKING .C	loated within a	depression adjac	Cill to do		uau.								
HYDROLOGY													
Wetland Hydrolo	gy Indicators:							Seconda	ry Indicato	rs (minim	num of two re	quired)	
Primary Indicators	s (minimum of one	e is required; check	all that ar	oply)				Surface	Soil Crac	ks (B6)			
Surface Wat	er (A1)		w	ater-St	tained Leaves (E	39)	<u> x</u>	_ Drainaç	ge Patterns	s (B10)			
High Water	Γable (A2)		Ac	quatic F	Fauna (B13)		Moss Trim Lines (B16)						
Saturation (A	•		_	-	oosits (B15)		Dry-Season Water Table (C2)						
Water Marks			_	_	n Sulfide Odor (<u> </u>							
Sediment De					•	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposit	` '		_		e of Reduced Iro	<u> </u>							
Algal Mat or Iron Deposits			_		ron Reduction in ck Surface (C7)	in Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitord (D3)							
	is (B5) /isible on Aerial Im	magany (P7)			xplain in Remarl	<u>—</u>							
	getated Concave	. , ,	0	nei (E)	xpiairi iri Keman	K5)		_	eutral Test		74)		
										. (50)			
Field Observatio Surface Water Pre		Yes No	ХГ)enth (i	inches):								
Water Table Pres		Yes No					Wetland Hyd	irology P	resent?	Yes	N	lo Y	K
Saturation Preser		Yes No					,			•			_
(includes capillary	/ fringe)												
Describe Recorde	ed Data (stream g	gauge, monitoring w	ell, aerial	photos,	, previous inspe	ctions), if available	ə: 						
Remarks: Wetland hydrolo	ogy present at tl	he Data Point.											

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC	: 3 (A)
2				That Are OBL, FACW, or FAC.	. <u>3</u> (A)
2				Total Number of Dominant	0 (D)
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	. 400 (A/D)
5				That Are OBL, FACW, or FAC	100 (A/B)
6				Prevalence Index worksheet	
7				Total % Cover of:	Multiply by:
	0	= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 65	x 2 = <u>130</u>
1. Frangula alnus	30	Yes	FAC	FAC species 60	x 3 = <u>180</u>
2.				FACU species 40	x 4 = 160
3.				UPL species 0	x 5 = 0
4				Column Totals: 165	(A) <u>470</u> (B)
4				Prevalence Index = B/A	- 2.84
5					
6				Hydrophytic Vegetation India	
7				1 - Rapid Test for Hydrop	
	30	= Total Cover		X 2 - Dominance Test is >5 X 3 - Prevalence Index is ≤3	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adapta	
Phragmites australis	65	Yes	FACW	data in Remarks or or	
Ambrosia artemisiifolia	20		FACU	Problematic Hydrophytic	Vegetation ¹ (Explain)
O Double and a single service				¹ Indicators of hydric soil and w	
Parthenocissus quinquefolia	20	No	FACU	be present, unless disturbed o	
4					
5				Definitions of Vegetation Str	ata:
6				Tree – Woody plants 3 in. (7.6	·
7				at breast height (DBH), regard	ess of height.
8				Sapling/shrub – Woody plants	
9				and greater than or equal to 3.	28 ft (1 m) tall.
10.				Herb – All herbaceous (non-we	
11.				size, and woody plants less that	an 3.28 ft tall.
	 -			Woody vines – All woody vine	s greater than 3.28 ft in
12				height.	
	105	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1. Vitis riparia	30	Yes	FAC		
2				Hydrophytic Vegetation	
3.				Present? Yes	X No
4					
4					
	30	= Total Cove	r		
Remarks: (Include photo numbers here or on a separa Hydrophytic vegetation found at the Data Point.					
Hydrophytic vegetation lound at the Data Point.	•				

Sampling Point: DP-LC-PEM

SOIL Sampling Point: DP-LC-PEM Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/2 80 7.5YR 5/8 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Depth (inches): 6 Hydric Soil Present? Yes No Remarks: Could not dig past 6 inches due to compaction, hydric soils present at the Data Point.



PEM Wetland LC- View facing South.



PEM Wetland LC- Soils

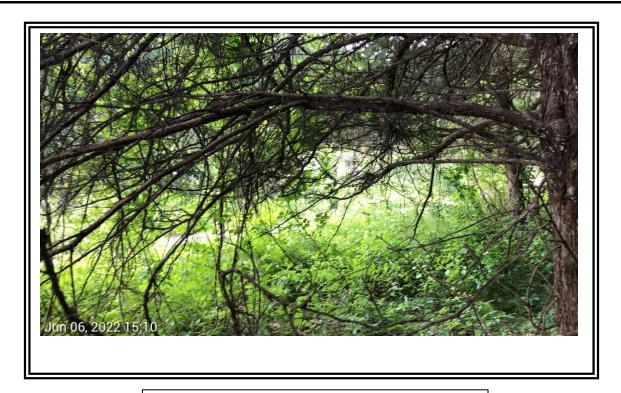
SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Green	e	Sampling	g Date:	June 6, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling	Point:	DP-LC-PFO		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill		=			
Landform (hillslope,							Concave		Slone (%):	2	
	,	Drainageway			f (concave, con	•			Slope (%):		
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat: 42.154323	s°N	Long: 73.91987	5°W		Datum: NAD8	3	
Soil Map Unit Name	: - Hudson an	nd Vergennes silty	clay loams, 15	to 25 percent slop	pes, severely er	roded	NWI classification:	: Not Map	pped		
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ar? Yes	X N	o (If no	o, explain in Remarl	ks.)			
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	l? A	۱re "Normal Circu	ımstances" present?	? Ye:	s X No		
		, or Hydrology				f needed, explain	n any answers in Re	marks.)		_	
SUMMA	ARY OF FIND	INGS – Attach	ո site map ։	showing sam	pling point	locations, ti	ransects, impo	ortant fea	atures, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area					
Hydric Soil Preser		Yes	X No		within a Wetl		Yes X	No			
Wetland Hydrolog		Yes _	No No		If yes, optiona	al Wetland Site ID	D: <u>LC</u>			_	
HYDROLOGY											
Wetland Hydrolo	gy Indicators:					_	Secondary Indicato	rs (minimur	n of two require	∌d)	
Primary Indicators	(minimum of one	e is required; check	all that apply)				Surface Soil Crac	ks (B6)			
Surface Wate	er (A1)		_	-Stained Leaves (E	B9)	<u>X</u>	Drainage Patterns	s (B10)			
High Water T				ic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A	-			Deposits (B15)		Dry-Season Water Table (C2)					
Water Marks	-			gen Sulfide Odor (— · · · · · · · · · · · · · · · · · · ·						
Sediment De	,			•	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Strategies (C4)						
Drift Deposits				nce of Reduced Iro	- · · · · · · · · · · · · · · · · · · ·						
Algal Mat or	` ,			t Iron Reduction in	<u> </u>						
Iron Deposits	s (65) 'isible on Aerial Im	2220ry (P7)		luck Surface (C7) (Explain in Remar	<u>—</u>						
_	getated Concave		Other ((Explain in Remai	K5)	<u> </u>	FAC-Neutral Test		,		
Field Observation							-				
Surface Water Pre		Yes No	X Depth	ı (inches):		1					
Water Table Prese	ent?	Yes No	X Depth	ı (inches):		Wetland Hyd	Irology Present?	Yes	No _	Х	
Saturation Presen		Yes No	X Depth	ı (inches):		ı					
(includes capillary		auga manitaring u	all carial phat		national if avail	ahla:					
Describe Recorde	d Data (stream ga	auge, monitoring w	eli, aeriai prioto	os, previous inspe	ections), ii avalli	able:					
Remarks: Wetland hydrolo	ogy present at th	ne Data Point.									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Juniperus virginiana	15	Yes	FACU	Number of Dominant Species
		163	TACO	That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant Species Across All Strata: 4 (B)
3.				Species Across All Strata.
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
5				` , ,
b				Prevalence Index worksheet:
7		= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft.)	13	= Total Cover		FACW species 15 x 2 = 30
Frangula alnus	20	Vee	FAC	FAC species 50 x 3 = 150
	20	Yes	FAC	FACU species 15 x 4 = 60
2				UPL species <u>0</u> x 5 = <u>0</u>
3		-		Column Totals: 90 (A) 250 (B)
4	· ·			Prevalence Index = B/A = 2.77
5		-		
6		-		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
<i>I</i>				X 2 - Dominance Test is >50%
	20	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Symplocarpus foetidus	10	No	OBL	
2. Toxicodendron radicans	30	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phragmites australis	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9.				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12.				height.
	55	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.				
2				Hydrophytic Vegetation
3.				Present? Yes X No
4.				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)			
Hydrophytic vegetation found at the Data Point.				

Sampling Point: DP-LC-PFO

SOIL Sampling Point: DP-LC-PFO Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 10YR 3/2 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Depth (inches): 5 Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point, could not dig past 5 inches due to compaction.



PFO Wetland LC- View facing North.

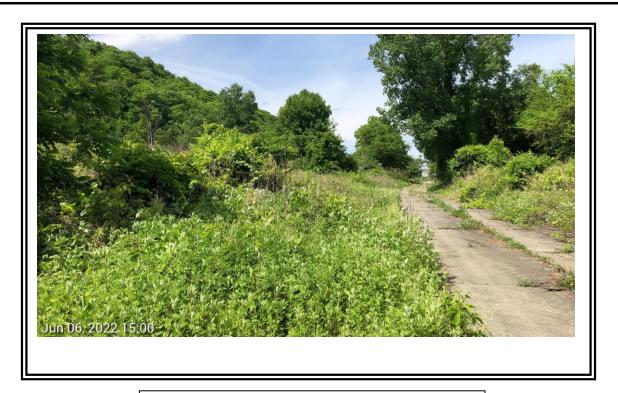


PFO Wetland LC- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	son Express		City/Count	y: Greene		Sampling Date:	June 6, 2022		
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-LC-Upland		
Investigator(s):	Tristen Peterso	n		Section, To	wnship, Range:	Catskill				
Landform (hillslope	e. terrace. etc.):	Terrace		Local relief	(concave, convex, r	none): Convex		Slope (%): 1		
Subregion (LRR or	•	LRR R		at: 42.154343°I		: 73.919994°W		Datum: NAD83		
	-				-		· · · · · · · · · · · · · · · · · · ·			
Soil Map Unit Name		nd Vergennes silty o					-	Mapped		
•	-	on the site typical for	-		X No	(If no, explain i	n Remarks.)			
Are Vegetation _	, Soil	, or Hydrology	significa	antly disturbed?	Are "N	Iormal Circumstances	' present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natural	ly problematic?	(If nee	ded, explain any answ	ers in Remarks.)			
SUMMA	ARY OF FIND	NGS – Attach	site map sh	owing sam	pling point loc	ations, transect	s, important f	features, etc.		
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sampled Ar	rea				
Hydric Soil Prese		Yes	No No		within a Wetland?		No	X		
Wetland Hydrolog		Yes	No No		If yes, optional We	tland Site ID:				
	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	etland LC located	.,	,		, , , , , , , , , , , , , , , , , , , ,				
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:							num of two required)		
·		e is required; check					Soil Cracks (B6)			
Surface Wat				ained Leaves (B	9)		e Patterns (B10)			
High Water				auna (B13)	_					
Saturation (/	•			osits (B15)	<u> </u>					
Water Marks				•	Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment De				*	thizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) of Reduced Iron (C4) Stunted or Stressed Plants (D1)					
Drift Deposit Algal Mat or					n (C4) Tilled Soils (C6)	or Stressed Plants phic Position (D2)	* *			
Iron Deposit				k Surface (C7)	Theu John (Joy)		w Aquitard (D3)			
	√isible on Aerial Ir	nagery (B7)		plain in Remark	(2)		ppographic Relief (D4)			
	egetated Concave			picari i i i i			leutral Test (D5)			
Field Observation							, ,			
Surface Water Pr		Yes No	X Depth (ir	nches):						
Water Table Pres		Yes No			w	etland Hydrology Pr	esent? Yes	No X		
Saturation Preser	nt?	Yes No				• ==	<u>-</u>			
· · · · · · · ·		gauge, monitoring w	ell aerial photos.	previous inspec	ctions). if available:					
Dodding Roddia	ou Data (ottodin g	jaago, montoning w	on, donar priotoo,	provious mopos	onono), ii availabio.					
Remarks:				,						
No wetland hyd	Irology present	at the Data Point.								

SOIL Sampling Point: DP-LC-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/3 100 Silt ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction No X Depth (inches): 6 Hydric Soil Present? Yes Remarks: Could not dig past 6 inches due to compaction, no hydric soils present at the Data Point.



Upland LC- View facing North.



Upland LC Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	!	Sampling [Date: June	6, 2022	
Applicant/Owner:	CHA			State:	NY		Sampling P	Point: DP-M	/C	
Investigator(s):	Tristen Peterson	າ		Section, To	ownship, Range:	Catskill				
Landform (hillslope,		Depression			f (concave, conve		Concave	Slor	pe (%): 1	
	·				·				ım: NAD83	
Subregion (LRR or I		LRR R	3: 0	Lat: 42.152129	J ^N N L	ong: 73.92063			III: NADOS	
Soil Map Unit Name		nd Vergennes soils,					NWI classification:	Not Mapped		
Are climatic / hydrole	_		-			(If no	o, explain in Remarks.			
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	l? Are	e "Normal Circu	mstances" present?	Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If :	needed, explain	any answers in Rem	ıarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point i	locations, tr	ransects, import	tant feature	es, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	d Area				
Hydric Soil Preser		Yes	X No		within a Wetla		Yes X	No	_	
Wetland Hydrolog		Yes	X No		If yes, optional	Wetland Site ID	o: MC			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Indicators	(minimum of t	wo required)	
Primary Indicators	s (minimum of one	e is required; check	all that apply)	<u> </u>			Surface Soil Cracks	s (B6)		
Surface Wate	er (A1)			-Stained Leaves (E	B9)	X	Drainage Patterns ((B10)		
High Water T				ic Fauna (B13)		Moss Trim Lines (B16)				
X Saturation (A				Deposits (B15)		_	Dry-Season Water			
Water Marks				gen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De				zed Rhizospheres o	= .					
Drift Deposits			_	nce of Reduced Iro	` '	Stunted or Stressed Plants (D1)				
Algal Mat or	, ,			nt Iron Reduction in		_ · · · · · · · · · · · · · · · · · · ·				
Iron Deposits	s (B5) /isible on Aerial Im	22gan/ (R7)		Muck Surface (C7) (Explain in Remarl		Shallow Aquitard (D3)				
	getated Concave S		Guiei	(Explain in Neman	.KS)	Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observation						-	, 17.0			
Surface Water Pre		Yes No	X Depth	h (inches):						
Water Table Prese		Yes No				Wetland Hyd	rology Present?	Yes X	No	
Saturation Presen		Yes X No				-				
(includes capillary	/ fringe)									
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aerial phot	os, previous inspe	ections), if availab	ble:				
Remarks:										
Wetland hydrolo	ogy present at th	he Data Point.								

VEGETATION – Use scientific names of plants.				Sampling Point: DP-MC			
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)		
2. 3.				Total Number of Dominant Species Across All Strata: 1	(B)		
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 100	(A/B)		
7				Prevalence Index worksheet: Total % Cover of: Multiply by:	-		
	0	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>	_		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>85</u> x 2 = <u>170</u>			
1				FAC species 0 x 3 = 0			
2				FACU species 15 x 4 = 60			
3				UPL species <u>0</u> x 5 = <u>0</u> Column Totals: 100 (A) 230			
4				Column Totals. 100 (A) 230	_ (D)		
5				Prevalence Index = B/A = 2.3			
6				Hydrophytic Vegetation Indicators:			
7				X 1 - Rapid Test for Hydrophytic Vegetation			
		T 0		X 2 - Dominance Test is >50%			
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting			
Phragmites australis	85	Yes	FACW	data in Remarks or on a separate sheet)			
Solidago canadensis		No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
3.				¹ Indicators of hydric soil and wetland hydrology must			
4				be present, unless disturbed or problematic.			
5				Definitions of Vegetation Strata:			
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter			
7				at breast height (DBH), regardless of height.			
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
9				Herb – All herbaceous (non-woody) plants, regardless of	:		
11.				size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in			
12				height.			
	100	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1				- Hydrophytic			
2				- Vegetation			
3.				Present? Yes X No			
4							
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation found at the Data Point.							
riyarepriyae regetateri reana at the Zata r sinti							

SOIL Sampling Point: DP-MC Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Loam 0-6 10YR 4/1 10YR 5/6 6-14 80 10YR 5/8 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland MC- View facing South.



PEM Wetland MC- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	son Express		City/Cou	unty: Greene	е	Sampling Date:	June 6, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-MC-Upland		
Investigator(s):	Tristen Petersor	n		Section, T	Township, Range	e: Catskill	_			
Landform (hillslope		Terrace		Local relie	ef (concave, conv	vex, none): Conv	ex	Slope (%): 2		
Subregion (LRR or	•	LRR R		Lat: 42.15214	•	Long: 73.920515°W	<u>ox</u>	Datum: NAD83		
- '	-		2 +- 0 maran		<u> </u>		Lifition. Not l			
Soil Map Unit Name		nd Vergennes soils	•	•				Mapped		
Are climatic / hydro	-		•		X No	o (If no, expl	lain in Remarks.)			
Are Vegetation _	, Soil	, or Hydrology	sig	inificantly disturbed	d? A	re "Normal Circumstan	nces" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	nat	turally problematic	c? (If	f needed, explain any a	answers in Remarks.)			
SUMM	ARY OF FIND	INGS – Attacl	n site map	showing san	npling point	locations, transe	ects, important	features, etc.		
Hydrophytic Vege	atation Drocent?	Yes	No	x	Is the Sample	-d Aron				
Hydric Soil Prese		Yes	No		within a Wetl		es No	Х		
Wetland Hydrolog		Yes	No		If ves. optiona	al Wetland Site ID:	<u></u>			
		dures here or in a s				Wodana C.C				
HYDROLOGY Wetland Hydrold						Seco	ndary Indicators (mini	mum of two required)		
Wetland Hydrold							ndary Indicators (minir	num or two requirea)		
		e is required; check			(7.0)		face Soil Cracks (B6)			
Surface Wat				er-Stained Leaves	(B9)	·	inage Patterns (B10)			
High Water				tic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	•			Deposits (B15)	· (C4)	Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Water Marks	eposits (B2)			ogen Sulfide Odor	<u> </u>					
Drift Deposit				· ·	ed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) stunted or Stressed Plants (D1)					
Algal Mat or	* *				Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposit			_	Muck Surface (C7	•	· —	allow Aquitard (D3)	,		
	Visible on Aerial In	nagery (B7)	Other	r (Explain in Rema	arks)		rotopographic Relief (D4)		
Sparsely Ve	egetated Concave	Surface (B8)	_			FAC	C-Neutral Test (D5)			
Field Observation	ons:									
Surface Water Pr	esent?	Yes No								
Water Table Pres	sent?	Yes No				Wetland Hydrolog	y Present? Yes	No <u>X</u>		
Saturation Preser		Yes No	X Dept	th (inches):						
(includes capillary		auge, monitoring v	······ coriol pho	stan provious incr	antional if avails	-kla.				
Describe Necordo	ed Dala (sucam y	auge, monitoring w	/ell, dellal pilo	MOS, previous irisp	Decilotis), ii avalic	able:				
Remarks:										
No wetland hyd	Irology present	at the Data Point	í.							

Sapling/Shrub Stratum (Plot size: 15 ft.)

Herb Stratum (Plot size: 5 ft.)

Tree Stratum (Plot size: 30 ft.) % Cover Species? Status

 1. Lolium perenne
 70
 Yes
 FACU

 2. Trifolium repens
 15
 No
 FACU

 3. Dactylis glomerata
 15
 No
 FACU

Absolute Dominant Indicator

_____ = Total Cover

_____ = Total Cover

0 = Total Cover

	S	ampling Po	oint: DP-MC-I	Jpland
Dominance Test Number of Domir That Are OBL, FA	nant Species		0	(A)
Total Number of Species Across A			1	(B)
Percent of Domir That Are OBL, FA			0	(A/B)
Prevalence Inde		Mult	tiply by:	
OBL species	0		•	_
FACW species	0			
FAC species	0			_
FACU species	100	x 4 = 4	00	
UPL species	0	x 5 = 0		
Column Totals:	100	_	00	(B)
		/ _		- ` ′
Prevalence	e Index = B/A =	4		
2 - Dominar 3 - Prevaler 4 - Morpholo data in F Problematic Indicators of hyd	nce Index is ≤3.0 ogical Adaptatio Remarks or on a Hydrophytic Ve dric soil and wet as disturbed or p	ns ¹ (Provide separate segetation ¹ (and hydrolematic	de supporting sheet) (Explain) logy must	
Definitions of Vo	egetation Strata	a:		
Tree – Woody plat breast height (•	•		
Sapling/shrub – and greater than				
Herb – All herbac size, and woody	•		•	:
Woody vines – A height.	All woody vines (greater than	n 3.28 ft in	
Hydrophytic Vegetation Present?	Yes _	No	x	

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

No hydrophytic vegetation found at the Data Point.

Woody Vine Stratum (Plot size: 30 ft.)

SOIL
Upland
Sampling Point: DP-MC-

Profile Descri	ption: (Describe to the	depth need	ed to document the	indicator or	confirm tl	ne absence	of indicators.)					
Depth	Matrix			x Features	- _ 1	. 2	- .					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-2	10YR 5/4	100					Silt					
<u></u>												
								-				
1	tti D. Dl-ti	DM Dadus	al Matrice MC Marke	-1 01 0:			21	DI Desertiste M. Medele				
Type: C=Con	centration, D=Depletion,	KIVI=Keduce	ea Matrix, MS=Maske	a Sand Grai	ns.			PL=Pore Lining, M=Matrix.				
Hydric Soil In								or Problematic Hydric Soils ³ :				
Histosol (•	-	Polyvalue Below	Surface (S8	B) (LRR R,			uck (A10) (LRR K, L, MLRA 149B)				
	pedon (A2)		MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)				
Black His		-	Thin Dark Surface			149B)		ucky Peat or Peat (S3) (LRR K, L, R)				
	n Sulfide (A4)	-	Loamy Mucky M		RR K, L)		Dark Surface (S7) (LRR K, L, M)					
	Layers (A5)	-	Loamy Gleyed M				Polyvalue Below Surface (S8) (LRR K, L)					
Depleted	Below Dark Surface (A1	1)	Depleted Matrix	(F3)			Thin Da	ark Surface (S9) (LRR K, L)				
Thick Da	rk Surface (A12)		Redox Dark Surf	ace (F6)			Iron-Ma	anganese Masses (F12) (LRR K, L, R)				
Sandy M	ucky Mineral (S1)	-	Depleted Dark S	urface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)					
Sandy GI	eyed Matrix (S4)	-	Redox Depression	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy Re	edox (S5)						Red Parent Material (F21)					
Stripped	Matrix (S6)						Very Sh	nallow Dark Surface (TF12)				
Dark Sur	face (S7) (LRR R, MLRA	149B)					Other (Explain in Remarks)				
3Indicators of	nydrophytic vegetation a	nd wetland h	vdrology must be pre	sent. unless	disturbed o	or problemati	ic.					
	yer (if observed):	ia wonana n	ya.o.ogy maor bo pro		diotal bod c	. problemat	1					
Type: Con												
Depth (inc	nes):						Hydric Soil P	resent? Yes No X				
Remarks:												
Could not dig	g past 2 inches due to	compaction	n, no hydric soils p	resent at t	he Data P	oint.						



Upland MC- View facing North



Upland MC Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene	<u> </u>	Sampling Date:	: June 9, 2022			
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-O1			
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	: Catskill					
Landform (hillslope,		Depression			ef (concave, conv		Concave	Slope (%): 1			
Subregion (LRR or I	·	LRR R		Lat: 42.151069	•	ong: 73.92075		Datum: NAD83			
Soil Map Unit Name		LINIVIX		Lut. 72.101000	<u>/ IN</u>	.011g. 70.020.0		t Mapped			
•		the site typical for	- this time of v		Y No	(If no	o, explain in Remarks.)	т Маррец			
Are climatic / hydrol	-	• •	-					· V N-			
				nificantly disturbed			mstances" present?	Yes X No			
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	? (If	needed, explain	any answers in Remarks	.)			
SUMMA	ARY OF FINDI	NGS – Attach	ı site map	showing sam	npling point	locations, tr	ansects, important	t features, etc.			
Hydrophytic Vege	etation Present?	Yes	X No)	Is the Sample	ed Area					
Hydric Soil Preser		Yes _	X No		within a Wetla		Yes X No				
Wetland Hydrolog		Yes	X No		If yes, optional	l Wetland Site ID): <u>O1</u>				
HADBOI OGA											
HYDROLOGY	· · · · · · · · · · · · · · · · · · ·						O	·			
Wetland Hydrolo		t to the second	" "				Secondary Indicators (mir				
		is required; check			(20)		Surface Soil Cracks (B6				
Surface Water T			_	r-Stained Leaves (E	B9)		X Drainage Patterns (B10)				
X High Water T X Saturation (A				tic Fauna (B13) Deposits (B15)			Moss Trim Lines (B16) Dry-Season Water Tabl	(C2)			
Water Marks	•			ogen Sulfide Odor ((C1)		Crayfish Burrows (C8)	e (G2)			
Sediment De				zed Rhizospheres		(C3)	Saturation Visible on Ae	erial Imagery (C9)			
Drift Deposits				ence of Reduced Iro	=	(00)	Stunted or Stressed Pla	= : : :			
Algal Mat or				nt Iron Reduction in	, ,						
Iron Deposits	* *			Muck Surface (C7)	•		Shallow Aquitard (D3)	,			
Inundation V	/isible on Aerial Ima	agery (B7)	Other	r (Explain in Remar	rks)	<u>-</u>	Microtopographic Relief	(D4)			
Sparsely Veo	getated Concave S	Surface (B8)				_	FAC-Neutral Test (D5)				
Field Observation	ns:										
Surface Water Pre		Yes No			[
Water Table Prese		Yes X No	· 		[Wetland Hydi	rology Present? Yes	s <u>X</u> No			
Saturation Presen		Yes X No	Dept	th (inches): 2							
(includes capillary Describe Recorde		auge monitoring w	ell aerial pho	otos, previous inspe	ections) if availa	hle.					
D0001100 1.000.	a Data (otroa 5-	.ugo, mormog	Cli, aona. p	tos, providuoor	50110110), 11 4.4	DIC.					
Remarks:	nragant at th	Data Daint									
Wetland hydroid	ogy present at th	e Data Pont.									

Total Cover Yes Total Cover			x 4 = 0 $x 5 = 0$ (A)
Total Cover		That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 100 FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	3 (B) 100 (A) Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Cors: tic Vegetation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Cover		Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	3 (B) 100 (A) Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Cors: tic Vegetation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Cover		Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Dors: tic Vegetation 1 1 100 (A) (A) (A) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Total Cover		Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Dors: tic Vegetation 1 1 100 (A) (A) (A) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Yes Total Cover		That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Discourse: tic Vegetation of the constant of the const
Yes Total Cover		That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Discourse: tic Vegetation of the constant of the const
Yes Total Cover		Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	Multiply by: x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (Discourse: tic Vegetation of the constant of the const
Yes Total Cover		Total % Cover of: OBL species 0 FACW species 100 FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat	x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 ((a) 275)
Yes Total Cover		Total % Cover of: OBL species 0 FACW species 100 FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat	x 1 = 0 x 2 = 200 x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 ((a) 275)
Yes Total Cover		FACW species 100 FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat	$x 2 = \frac{200}{x 3}$ $x 3 = \frac{75}{75}$ $x 4 = \frac{0}{x 5}$ $(A) \frac{275}{x 5}$ $(B) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$
Total Cover Yes		FACW species 100 FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat	$x 2 = \frac{200}{x 3}$ $x 3 = \frac{75}{75}$ $x 4 = \frac{0}{x 5}$ $(A) \frac{275}{x 5}$ $(B) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$ $(C) \frac{275}{x 5}$
Total Cover Yes		FAC species 25 FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	x 3 = 75 x 4 = 0 x 5 = 0 (A) 275 (In the second of the
Total Cover Yes		FACU species 0 UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	x 4 = 0 $x 5 = 0$ (A)
Total Cover Yes		UPL species 0 Column Totals: 125 Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	x 5 = 0 (A) 275 (I) 2.2 Pors: tic Vegetation $x 5 = 0$ $x 5 = 0$ (I) (I) $x 5 = 0$
Total Cover Yes		Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	(A) 275 (I
Total Cover Yes		Prevalence Index = B/A = 2 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	2.2 ors: tic Vegetation 1 1s ¹ (Provide supporting
Total Cover Yes		Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	ors: tic Vegetation to
Total Cover		Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	ors: tic Vegetation to
Total Cover		1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	tic Vegetation 1 1s ¹ (Provide supporting
Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	ns ¹ (Provide supporting
Yes		X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	1 ns ¹ (Provide supporting
Yes		4 - Morphological Adaptation	ns ¹ (Provide supporting
	FACW		
	FACW	data in Remarks or on a	separate sheet)
			. ,
		Problematic Hydrophytic Ve	getation ¹ (Explain)
		¹ Indicators of hydric soil and wetl	
		be present, unless disturbed or pr	roblematic.
		Definitions of Vegetation Strata	1:
		_	
		Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardles	,
		at breast neight (DBH), regardles.	s of fleight.
		Sapling/shrub – Woody plants le	
		and greater than or equal to 3.28	ft (1 m) tall.
	-	Herb – All herbaceous (non-wood	dy) plants, regardless of
		size, and woody plants less than	
		Woody vines - All woody vines of	greater than 3.28 ft in
		height.	reater than 5.20 it in
Total Cover			
rotal Gover			
Yes	FAC		
			X No
		Present? Yes _	NO
Total Cove	r		
	otal Cover Yes	otal Cover	Sapling/shrub – Woody plants lea and greater than or equal to 3.28 Herb – All herbaceous (non-wood size, and woody plants less than Woody vines – All woody vines gheight. Yes FAC Hydrophytic Vegetation Present? Yes

SOIL Sampling Point: DP-O1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay 0-3 10YR 3/1 7.5YR 6/6 3-10 80 7.5YR 6/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland O1- View facing North.



PEM Wetland O1- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hudso	on Express		City/Coun	nty: Green	e	Sampling Date:	June 10, 2022			
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-O1-Upland			
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill					
Landform (hillslope,		Terrace			f (concave, con			Slope (%): 1			
					,			Slope (%)1			
Subregion (LRR or	-	LRR R		Lat: 42.151155	°N	Long: 73.920774°W					
Soil Map Unit Name): <u>-</u>							Mapped			
Are climatic / hydrol	-		-			o (If no, explain	in Remarks.)				
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	? A	Are "Normal Circumstances	" present?	Yes X No			
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain any answ	vers in Remarks.)				
SUMMA	ARY OF FINDI	NGS – Attacl	າ site map ເ	showing sam	pling point	locations, transect	s, important f	features, etc.			
Hydrophytic Vege	station Present?	Ves	No	Х	Is the Sample	ad Araa					
Hydric Soil Prese		=		X	within a Wet		No _	<u>X</u>			
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:					
Remarks: (Explain		-) , - ₁						
HYDROLOGY Wetland Hydrolo	ogy Indicators:					Seconda	ry Indicators (minir	num of two required)			
_	s (minimum of one	is required; check	all that apply)				Soil Cracks (B6)	Tulli of the require			
Surface Water	•	is required, ones.		Stained Leaves (E	R9)		ge Patterns (B10)				
High Water				c Fauna (B13)	D0)		rim Lines (B16)				
Saturation (A				eposits (B15)		Dry-Season Water Table (C2)					
Water Marks	•			gen Sulfide Odor (
Sediment De	eposits (B2)		Oxidize	ed Rhizospheres of	on Living Roots						
Drift Deposit	s (B3)		Presen	ice of Reduced Iro	on (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or	Crust (B4)		Recent	t Iron Reduction ir	n Tilled Soils (C	C6) Geomorphic Position (D2)					
Iron Deposits				uck Surface (C7)		Shallow Aquitard (D3)					
	isible on Aerial Ima		Other (Explain in Remar	rks)	Microtopographic Relief (D4)					
Sparsely Ve	getated Concave S	Surface (B8)			1	FAC-Ne	eutral Test (D5)				
Field Observatio			V 5 11								
Surface Water Pre		Yes No				W-4-ad Undrology D	10 Von	No. Y			
Water Table Pres		Yes No Yes No	·			Wetland Hydrology P	esentr res	No <u>X</u>			
(includes capillary		Yes No	⊾	(Inches).							
	ed Data (stream ga	uge, monitoring v	vell, aerial photo	os, previous inspe	ections), if avail	able:					
	,	_			,.						
Remarks:	rology present a	t the Data Point	•								
NO Welland nya.	lology procent a	l liie Dala i oiii									

ee Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	=	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>
oling/Shrub Stratum (Plot size: 15 ft.)	<u> </u>			FACW species 0 $x 2 = 0$
				FAC species 0 x 3 = 0 FACU species 40 x 4 = 160
				FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>0</u> x 5 = <u>0</u>
				Column Totals: 40 (A) 160 (
				Prevalence Index = B/A = 4
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
b Stratum (Plot size: 5 ft.)		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Poa pratensis	40	Yes	FACII	data in Remarks or on a separate sheet)
· oa pratorioto	-			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 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
0				size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
		= Total Cover		
oody Vine Stratum (Plot size: 30 ft.)				
				Hydrophytic
				Vegetation
				Present? Yes NoX
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate s				
No hydrophytic vegetation found at the Data Point.				

SOIL Sampling Point: DP-O1-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Silt ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Depth (inches): 8 Hydric Soil Present? Yes No X Remarks: Could not dig past 8 inches due to rock refusal, dark soils due to area adjacent to road, no hydric soils present at the Data Point.



Upland O1- View facing North.



Upland O1 Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	ne	Sampling Date:	June 10, 2022			
Applicant/Owner:	СНА			State:	NY		Sampling Point:	P-1			
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill					
Landform (hillslope,		Depression			f (concave, con	•	Concave	Slope (%): 1			
, , ,	. ,							Datum: NAD83			
Subregion (LRR or I		LRR R		Lat: 42.145764	[*] N	Long: 73.91327		(100 cm 200 cm 2			
Soil Map Unit Name	E				V402		·	Mapped			
Are climatic / hydrol	-	· ·	2.5			lo (If no	o, explain in Remarks.)				
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	?	Are "Normal Circu	mstances" present?	Yes No			
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (1	lf needed, explain	any answers in Remarks.)				
SUMMA	ARY OF FIND	NGS – Attacl	ո site map ։	showing sam	pling point	t locations, tr	ansects, important f	eatures, etc.			
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampl	ed Area					
Hydric Soil Preser		Yes	X No		within a Wet		Yes X No				
Wetland Hydrolog	y Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID	: <u>F</u>				
HYDROLOGY											
Wetland Hydrolo	gy Indicators:					A	Secondary Indicators (minim	num of two required)			
	•	is required; check	(all that apply)				Surface Soil Cracks (B6)				
Surface Wate				-Stained Leaves (E	B9)	<u>x</u>	Drainage Patterns (B10)				
High Water T	8 8			c Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A	120			eposits (B15)		·	Dry-Season Water Table ((C2)			
Water Marks				gen Sulfide Odor (Crayfish Burrows (C8)	# # 200 1			
Sediment De				ed Rhizospheres		s (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits				nce of Reduced Iro		<u></u>	Stunted or Stressed Plants (D1)				
Algal Mat or I				t Iron Reduction ir luck Surface (C7)		(b) <u>^</u>	X Geomorphic Position (D2) Shallow Aquitard (D3)				
	s (ธอ) ′isible on Aerial Im	agen/ (R7)		(Explain in Remar		_	Shallow Aquitard (D3) Microtopographic Relief (D4)				
	getated Concave S	• , , ,		(Explain in Roma.	K5)	X	FAC-Neutral Test (D5)				
		- Juliace (Bo)				A	1710-110000011000.(20)				
Field Observation Surface Water Pre		Yes No	X Depth	n (inches);							
Water Table Prese		Yes No				Wetland Hvd	rology Present? Yes	No X			
Saturation Presen		Yes No				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
(includes capillary											
Describe Recorde	d Data (stream ga	auge, monitoring w	vell, aerial photo	os, previous inspe	ections), if avail	able:					
D											
Remarks: Wetland hydrolo	ogy present at th	ne Data Point.									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test	worksheet:			
1	70 00101	ороског.	Otatao	Number of Domir				(4)
2				That Are OBL, FA	ACVV, or FAC:	-	3	(A)
2				Total Number of				
3				Species Across A	All Strata:		4	(B)
4				Percent of Domin				
5				That Are OBL, FA	ACW, or FAC:		75	(A/B)
6.				Prevalence Inde	v worksheet:			
7				Total % Cov		М	ultiply by:	
		Total Cover		OBL species	0	x 1 =	0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	70	x 2 =	140	
Cornus racemosa	20	Yes	FAC	FAC species	40	x 3 =	120	
				FACU species	30	x 4 =	120	
2.				UPL species	0	x 5 =	0	_
3		:		Column Totals:	140	(A)	380	(B)
4		:						
5				Prevalence	e Index = B/A = :	2.71		
6.				Hydrophytic Ve	getation Indicat	ors:		
7				I —— ·	est for Hydrophy		ation	
		T . 10		X 2 - Dominar				
Herb Stratum (Plot size: 5 ft.)	20	= Total Cover		X 3 - Prevalen 4 - Morpholo			ride sunnortii	na
					Remarks or on a			''g
Phragmites australis		Yes	FACW			1	·= · · ·	
2. Ambrosia artemisiifolia	20	Yes	FACU	Problematic				
Parthenocissus quinquefolia	10	No	FACU	¹ Indicators of hyd				
4				be present, unles	s disturbed or p	roblemat	ic.	
5				Definitions of Ve	egetation Strata	a:		
6				Tree – Woody pla	ants 3 in. (7.6 cn	n) or mor	e in diamete	r
7.				at breast height (DBH), regardles	s of heig	ht.	
Q				Sapling/shrub –	Woody plants le	ess than	3 in. DBH	
0.				and greater than	or equal to 3.28	ft (1 m) t	all.	
9				Herb – All herbad	ceous (non-wood	dy) plants	s, regardless	of
10				size, and woody	•		_	
11				Woody vines – A	All woody vines g	reater th	an 3.28 ft in	
12				height.				
	100	= Total Cover						
Woody Vine Stratum (Plot size: 30 ft.)	_							
1. Vitis riparia	20	Yes	FAC					
2.				Hydrophytic				
				Vegetation	Yes _	х	。	
3				Present?	res _	N	•	
4								
	20	= Total Cover						
Remarks: (Include photo numbers here or on a separate she	et.)							
Hydrophytic vegetation found at the Data Point.								

SOIL
Sampling Point: P-1

Depth	Matrix	ueptii nee	eded to document the i	Features	Committee	ne absence	of indicators.					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks			
0-8	10YR 3/2	80	10YR 6/6	20	C	M	Clay					
3-20	10YR 4/2	70	10YR 6/6	30	С	М	Clay	2				
-20	101114/2		1011000			IVI	Clay	-				
								1				
	1			1				1				
	1			1			·	-				
				1				A.				
	p		-				·	2				
-			r									
Type: C=Cond	centration, D=Depletion,	RM=Redu	ced Matrix, MS=Masked	d Sand Grai	ns.		² Location:	PL=Pore Lining,	M=Matrix.			
lydric Soil Inc	dicators:							or Problematic H		:		
Histosol (/			Polyvalue Below	Surface (S8) (LRR R,			uck (A10) (LRR I				
	pedon (A2)		MLRA 149B)	- (CO) (LBB	D MIDA	440D)	Coast Prairie Redox (A16) (LRR K, L, R)					
Black Hist Hydrogen	Sulfide (A4)		Thin Dark Surface Loamy Mucky Mir			1496)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)					
	Layers (A5)		Loamy Gleyed Ma				Polyvalue Below Surface (S8) (LRR K, L)					
Depleted	Below Dark Surface (A1	1)	Depleted Matrix (F3)			Thin Dark Surface (S9) (LRR K, L)					
	k Surface (A12)		Redox Dark Surfa		Iron-Manganese Masses (F12) (LRR K, L, R)							
	icky Mineral (S1)		X Depleted Dark Su			ont Floodplain Soi						
Sandy Gle Sandy Re	eyed Matrix (S4)		Redox Depressio		Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)							
	Matrix (S6)						-	nallow Dark Surfa				
	ace (S7) (LRR R, MLRA	A 149B)						Explain in Remarl				
Indicators of h	ydrophytic vegetation a	nd wetland	hydrology must be pres	ent, unless	disturbed of	or problemat	ic.					
	yer (if observed):											
Type: None								10. 1/	v			
Depth (inch	nes):						Hydric Soil P	resent? Yes	<u>x</u>	No		
Remarks:	oresent at the Data P	oint										
iyunc sons p	nesent at the Data I	OIIIL.										



PEM Wetland P1- View facing North.



PEM Wetland P-1- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	June 10, 2022
Applicant/Owner:	СНА			State:	NY		Sampling Point:	-Upland
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill		
Landform (hillslope,		Terrace			f (concave, con			Slope (%): 1
	·	LRR R			•	Long: 73.913309°W		Datum: NAD83
Subregion (LRR or		LKK K		Lat: 42.145712	[^] N			
Soil Map Unit Name								Mapped
Are climatic / hydrol	-	• •	-			o (If no, explain i	n Remarks.)	
	, Soil					are "Normal Circumstances"	' present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain any answ	ers in Remarks.)	
SUMMA	ARY OF FINDI	NGS – Attacl	n site map s	showing sam	pling point	locations, transect	s, important f	eatures, etc.
Hydrophytic Vege	etation Present?	Yes	No	Х	Is the Sample	ed Area		
Hydric Soil Prese		-		X	within a Wet		No _	X
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:		
TWDDOLOOV								
HYDROLOGY								
Wetland Hydrolo								num of two required)
	s (minimum of one	is required; check				· · · · · · · · · · · · · · · · · · ·	Soil Cracks (B6)	
Surface Wat			_	Stained Leaves (F	B9)		e Patterns (B10)	
High Water				c Fauna (B13)			im Lines (B16)	(00)
Saturation (A Water Marks	-			eposits (B15) gen Sulfide Odor ((C1)		son Water Table (Burrows (C8)	(02)
Sediment De			_	ed Rhizospheres			on Visible on Aeria	ol Imagen/ (C9)
Drift Deposit			· · · · · · · · · · · · · · · · · · ·	ice of Reduced Iro			or Stressed Plant	=
Algal Mat or			_	t Iron Reduction in	` '		phic Position (D2)	
Iron Deposits	* *		_	uck Surface (C7)			Aquitard (D3)	
	isible on Aerial Im	agery (B7)		Explain in Remar	·ks)	Microtop	oographic Relief ([04)
Sparsely Ve	getated Concave S	Surface (B8)				FAC-Ne	utral Test (D5)	
Field Observatio	ns:							
Surface Water Pre		Yes No						
Water Table Pres		Yes No	· 			Wetland Hydrology Pr	esent? Yes	No <u>X</u>
Saturation Preser		Yes No	X Depth	(inches):				
(includes capillary	/ fringe) ed Data (stream ga	was monitoring w	uall parial nhote	no provious inspe	otions) if avail	ahla:		
Describe Records	10 Dala (Siream ya	luge, monitoring w	Veli, aeriai priod	os, previous irispe	Clions), 11 avam	able:		
Remarks: No wetland hydi	rology present a	t the Data Point	t.					

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	70 00001	Ореспез	Otatus	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
5				
0				Prevalence Index worksheet: Total % Cover of: Multiply by:
7		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)		- 10tai 00voi		FACW species $0 \times 2 = 0$
1				FAC species 0 x 3 = 0
2				FACU species 100 x 4 = 400
				UPL species <u>0</u> x 5 = <u>0</u>
3				Column Totals: <u>100</u> (A) <u>400</u> (B)
4				Prevalence Index = B/A = 4
5				
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Ambrosia artemisiifolia	50	Yes	FACU	
2. Poa pratensis	30	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Trifolium repens	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago canadensis	10	No	FACU	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9.				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	100	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				
2.				Hydrophytic Vegetation
3.				Present? Yes NoX
4.				
	0	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				
No hydrophytic vegetation found at the Data Point.				

Sampling Point: DP--Upland

SOIL Sampling Point: DP-F-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 0-13 10YR 3/1 100 Silt ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction No X Depth (inches): 13 Hydric Soil Present? Yes Remarks: No hydric soils present at the Data Point, dark soils found at the Data Point due to being adjacent to the shoulder of road.



Upland P1- View facing North



Upland P-1 Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	Champlain Huds	son Express			City/County	y: Greene)		Sampling Da	ate: June 10, 2022
Applicant/Owner:	СНА				State:	NY			Sampling Po	int: DP-E
Investigator(s):	Tristen Peterson	<u> </u>			Section, Tov	wnship, Range	: Catskill			
Landform (hillslope,		Depression				(concave, conv		Concave		Slope (%):1
Subregion (LRR or	·	LRR R		Lat	t: 42.145470°N	•	ong: 73.9125			Datum: NAD83
	-	LIMITA			L. 72.110.1.C.		.011g. 10.0.2.2		effection:	
Soil Map Unit Name			11.1 45	· · 0 !			(16			Not Mapped
Are climatic / hydro	· ·	• •		•					n Remarks.)	
Are Vegetation							re "Normal Circu			Yes X No
Are Vegetation	, Soil	, or Hydrology		_naturally	problematic?	(If	needed, explain	n any answ	ers in Rema	rks.)
SUMM	ARY OF FIND	INGS – Attach	ı site m	ap sho	wing samp	oling point	locations, t	ransects	s, importa	ant features, etc.
Hydrophytic Vege	etation Present?	Yes	Х	No		Is the Sample	ed Area			
Hydric Soil Prese		Yes	Х	No		within a Wetla		Yes _	<u> </u>	No
Wetland Hydrolog	gy Present?	Yes		No	Χ	If yes, optional	I Wetland Site II	D: <u>E</u>		
Pem Wetiana id	ocated within a c	depression in Ph	ragmites	stand a	idjacent to ar	open grass	area.			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:							Secondary	y Indicators (minimum of two required)
Primary Indicators	s (minimum of one	e is required; check	all that ar	oply)				Surface	Soil Cracks	(B6)
Surface Wat	ter (A1)		w	ater-Stair	ned Leaves (B	9)	<u> x</u>	Drainage	e Patterns (E	310)
High Water				-	iuna (B13)		_		im Lines (B1	
Saturation (A	•			-	sits (B15)		_	_	son Water T	
Water Marks				-	Sulfide Odor (C	-			Burrows (C8	
Sediment De					Chizospheres or	_	(C3)	_		Aerial Imagery (C9)
Drift Deposit Algal Mat or					of Reduced Iror n Reduction in		e) <u>Y</u>	_	or Stressed phic Position	
Iron Deposit					Surface (C7)	Hilleu Sons (Or	6) <u>X</u>		Aquitard (D3	• •
l 	√isible on Aerial Im	nagery (B7)	_		olain in Remark	s)	_		ographic Re	
	egetated Concave		`	or (Expi	iam in romano	0,	X		utral Test (D	
Field Observation									`	<u>, </u>
Surface Water Pr		Yes No	X C	Depth (inc	ches):					
Water Table Pres	sent?	Yes No					Wetland Hyd	drology Pr	esent?	Yes No <u>X</u>
Saturation Preser (includes capillary		Yes No								 _
		auge, monitoring w	ell. aerial	photos, p	revious inspec	tions), if availa	hble:			
	, ,	0,	,			,,				
Remarks:	drology propost (at the Data Point								
No welland nyd	nology present a	at the Data i Oilit	•							

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:			
1				Number of Domir That Are OBL, FA			1	(4)
				That Are OBL, F	ACW, OI FAC.		<u> </u>	_(A)
2				Total Number of Species Across A			4	(D)
3				Species Across A	All Strata:		1	_(B)
4				Percent of Domir			100	(A (D)
5				That Are OBL, FA	ACW, OF FAC:		100	_(A/B)
6				Prevalence Inde	v worksheet			
7				Total % Cov		Multi	ply by:	_
		= Total Cover		OBL species	0	x 1 = 0		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	100	x 2 = 20	00	
1				FAC species	0	x 3 = 0		
				FACU species	0	x 4 = 0		
2				UPL species	0	x 5 = 0		
3				Column Totals:	100	(A) <u>20</u>	00	(B)
4								
5				Prevalence	e Index = B/A = 2	2		
6				Hydrophytic Ve	getation Indicat	ors:		
7				X 1 - Rapid Te	est for Hydrophy	ic Vegetation	on	
				X 2 - Dominar				
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevaler	ice Index is ≤3.0 ogical Adaptatioi		e supportin	a
<u> </u>				· — ·	Remarks or on a	•		9
Phragmites australis	100	Yes	FACW			1		
2				Problematic	Hydrophytic Ve	getation (E	Explain)	
3				¹ Indicators of hyd	dric soil and wetl	and hydrolo	ogy must	
4				be present, unles	s disturbed or p	roblematic.		
5				Definitions of Ve	egetation Strata	1:		
6				Tree – Woody pla	ants 3 in. (7.6 cn	n) or more i	in diameter	
7.				at breast height (· ·	•		
				Sapling/shrub –	Woody plants le	es than 3 ir	n DBH	
-				and greater than				
9				Herb – All herba	reous (non-woo	lν) nlants r	renardless i	of
10				size, and woody	•		ogaraioco (01
11				Woody vines – A	All woody vines o	reater than	3 28 ft in	
12				height.	iii woody viiioo g	roator triair	0.20 10 111	
	100	= Total Cover						
Woody Vine Stratum (Plot size: 30 ft.)								
1.								
				Hydrophytic				
2				Vegetation Present? Yes X No				
3								
4								
	0	= Total Cove	r					
Remarks: (Include photo numbers here or on a separate sheet.)								
Hydrophytic vegetation found at the Data Point.								

SOIL Sampling Point: DP-E Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/2 7.5YR 4/6 Clay 0-7 10YR 4/2 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland E- View facing North.



PEM Wetland E- Soils

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	June 10, 2022
СНА			State:	NY		Sampling Point:	DP-E-Upland
			Section, To	ownship, Range	e: Catskill	_	
					'		Slope (%): 1
·	•						Slope (%)1
	LKK K		Lat: 42.145440	J°N I			
e: <u>-</u>							Mapped
ogic conditions on	the site typical fo	r this time of ye	ear? Yes	<u>X</u> N	o (If no, explain	in Remarks.)	
, Soil	, or Hydrology	sign	nificantly disturbed	d? A	re "Normal Circumstance	s" present?	Yes X No
, Soil	, or Hydrology	natu	urally problematic	? (I	f needed, explain any ans	wers in Remarks.)	
ARY OF FINDI	NGS – Attacl	n site map	showing sam	npling point	locations, transec	ts, important	features, etc.
station Present?	Yes	No	Х	Is the Sample	ed Area		
	•					No	X
gy Present?	•			If yes, optiona	al Wetland Site ID:		
av Indicators:					Seconda	ry Indicators (minir	num of two required)
	is required; check	c all that annly)					num or two required)
	is required, crieci			(B9)			
				(20)		-	
A3)							(C2)
; ; (B1)				(C1)			,
eposits (B2)			=				al Imagery (C9)
s (B3)		Preser	nce of Reduced In	ron (C4)	Stunte	d or Stressed Plant	ts (D1)
Crust (B4)		Recen	t Iron Reduction i	in Tilled Soils (C	Geomo	orphic Position (D2))
s (B5)		Thin M	luck Surface (C7))	Shallov	v Aquitard (D3)	
		Other	(Explain in Remai	rks)	Microto	pographic Relief (D4)
getated Concave S	Surface (B8)				FAC-N	eutral Test (D5)	
ns:							
	· · · · · · · · · · · · · · · · · · ·	·			Wetland Hydrology P	resent? Yes	No <u>X</u>
	Yes No	X Depth	n (inches):				
	urae monitorina v	vell aerial phot	os previous inspe	ections) if avails	ahle.		
ou Duta (otrodin ge	lago, monitoring v	voii, donai priot	oo, providuo iriopi	ootionoj, ii avait	3510.		
rology present a	t the Data Point	t.					
	CHA Tristen Peterson terrace, etc.): MLRA): :: - ogic conditions on, Soil, Soil MRY OF FINDI tation Present? nt? py Present? alternative proced int for Wetland I for Wetlan	terrace, etc.): Plain MLRA): LRR R	Tristen Peterson terrace, etc.): Plain MLRA): LRR R : - ogic conditions on the site typical for this time of years of the site of the s	CHA State: Tristen Peterson Section, T terrace, etc.): Plain Local relic MLRA): LRR R Lat: 42.145446 Section, T terrace, etc.): Plain Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): LRR R Lat: 42.145446 Section, T Local relic MLRA): Lat: 42.145446 Section, T Local relic MLRA: Lat: 42.145446 Lat: 42.14544 Lat: 42.14544 Lat: 42.14544 Lat: 42.14544 Lat	Tristen Peterson Section, Township, Range terrace, etc.): Plain Local relief (concave, con MLRA): LRR R Lat: 42.145440°N Lat: 42.145440°N Lat: 42.145440°N Local relief (concave, con MLRA): Lat: 42.145440°N Lat: 42.1454	CHA State: NY Tristen Peterson Section, Township, Range: Catskill terrace, etc.): Plain Local relief (concave, convex, none): Convex. MLRA): LRR Lat: 42.145440*N Long: 73.912560*W E	CHA State: NY Sampling Point: Tristen Peterson Section, Township, Range: Catskill terrace, etc.): Plain Local relief (concave, convex, none): Convex MLRA): LRRR Lat: 42.145440*N Long: 73.912560*W C

Sapling/Shrub Stratum (Plot size: 15 ft.)

Herb Stratum (Plot size: 5 ft.)

1. Poa pratensis

2. Trifolium repens

Tree Stratum (Plot size: 30 ft.)

Absolute	Dominant	Indicator	Dominance Test worksheet:			
% Cover	Species?	Status	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	(A/B)
			Prevalence Index worksheet: Total % Cover of:	M	ultiply by:	
0 :	= Total Cover		OBL species 0	x 1 =		
			FACW species 0	v 2 –	0	
			FAC species 0	x 3 =		
			FACU species 100	x 4 =	400	
			UPL species 0	x 5 =	0	
			Column Totals: 100	(A)	400	(B)
			Prevalence Index = B/A =	4		
			Hydrophytic Vegetation Indica	itors:		
			1 - Rapid Test for Hydrophy	ytic Vege	tation	
			2 - Dominance Test is >509			
0	= Total Cover	•	3 - Prevalence Index is ≤3.			
			4 - Morphological Adaptation data in Remarks or on a			ting
80	Yes	FACU			,	
20	Yes	FACU	Problematic Hydrophytic Ve	egetation	¹ (Explain)	
			¹ Indicators of hydric soil and we	tland hyd	rology mus	t
			be present, unless disturbed or p	oroblema	tic.	
			Definitions of Vegetation Strat	a:		
			Tree – Woody plants 3 in. (7.6 c at breast height (DBH), regardle	•		ter
			Sapling/shrub – Woody plants			
			and greater than or equal to 3.28			,
			Herb – All herbaceous (non-woo size, and woody plants less than			55 UI
			Woody vines – All woody vines height.	greater tl	nan 3.28 ft i	n
100	= Total Cover	-				
			Hydrophytic			
			Vegetation		. •	
			Present? Yes	١	lo <u>X</u>	_
	= Total Cove	er				
0						

Remarks: (Include photo numbers here or on a separate sheet.)	
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No hydrophytic vegetation found at the Data Point.

Woody Vine Stratum (Plot size: 30 ft.)

SOIL Sampling Point: DP-E-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/3 100 Silt ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Compaction Hydric Soil Present? Yes No X Depth (inches): 6 Remarks: Could not dig past 6 inches due to gravel refusal, no hydric soils present at the Data Point.



Upland E- View facing South.



Upland E Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

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

Project/Site: CHPE	City/County: Catskill / Greene County Sampling Date: 9/30/2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_7A-Y-7
Investigator(s): C. Scrivner & K. Shumacher	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	I relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 42.14481°N	Long: -73.90852°W Datum: WGS84
Soil Map Unit Name: Mh - Medisaprists-Hydraquents, tidal marsh	NWI classification: PEM1
Are climatic / hydrologic conditions on the site typical for this time of year?	Voc. v. No. (If no explain in Percents)
, ,	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distu	
Are Vegetation, Soil, or Hydrologynaturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag 7A-Y-7
Remarks: (Explain alternative procedures here or in a separate report.)	
Palustrine emergent marsh dominated by common reed.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
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) X Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced I	<u> </u>
Algal Mat or Crust (B4)Recent Iron Reduction	• • • • • • • • • • • • • • • • • • • •
Iron Deposits (B5) — Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rema Sparsely Vegetated Concave Surface (B8)	arks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Field Observations:	A I No Neutral Test (D0)
Surface Water Present? Yes No _X Depth (inches).
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, pr	revious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Yes FACW Number of Dominant Species Yes FAC That Are OBL, FACW, or FAC: 5 (A Total Number of Dominant Species Across All Strata: 6 (B) 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A) 83.3% (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 Multiply by: OBL species 115 x2 = 230 Yes FACW FACW species 115 x2 = 230 FAC species 5 x4 = 20 UPL species 5 x4 = 20 UPL species 0 x5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW A - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) No FACW Problematic Hydrophytic Vegetation¹ (Explain) No FACW Problematic Hydrophytic Vegetation² (Explain) No FACW Problematic Hydrophytic Vegetation² (Explain) No FACW Problematic Hydrophytic Vegetation of the problematic. Definitions of Vegetation Strata:
Yes FAC Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A Total Number of Dominant Species Across All Strata: 6 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A Prevalence Index worksheet: Total % Cover of: Multiply by: Multiply by: OBL species 0 x 1 = 0 FACW Species 115 x 2 = 230 FACW species 5 x 3 = 15 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: al Cover 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ Yes FACW No FACW No FACW No FACW No Problematic Hydrophytic Vegetation¹ (Explain)<
Total Number of Dominant Species Across All Strata: 6 (B
Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 115 x2 = 230 FAC species 5 x3 = 15 FACU species 5 x4 = 20 UPL species 0 x5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW No F
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
That Are OBL, FACW, or FAC: 83.3% (A. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 115 x2 = 230 FAC species 5 x3 = 15 FACU species 5 x4 = 20 UPL species 0 x5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW No FACW No FACW No FACW No FACW No FACW No FACW No FACW Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic.
Total % Cover of: Multiply by: OBL species $0 \times 1 = 0$ FACW species $115 \times 2 = 230$ FAC species $5 \times 3 = 15$ FACU species $5 \times 4 = 20$ UPL species $0 \times 5 = 0$ Column Totals: $125 \times 6 \times 10$ Prevalence Index $= B/A = 2.12$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW Yes FACW No FACW No FACW No FACW No FACW 1 Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic.
Yes FACW FACW species 0 x 1 = 0 FACW species 115 x 2 = 230 FAC species 5 x 3 = 15 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW No FACW No FACW No FACW No FACW No FACW Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic.
Yes FACW FACW species 115 $x 2 = 230$ FAC species 5 $x 3 = 15$ FACU species 5 $x 4 = 20$ UPL species 0 $x 5 = 0$ Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW No FACW No FACW No FACW No FACW Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic.
FAC species 5 $\times 3 = 15$ FACU species 5 $\times 4 = 20$ UPL species 0 $\times 5 = 0$ Column Totals: 125 (A) 265 Prevalence Index $= B/A = 2.12$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation $\times 2 - \text{Dominance Test is } > 50\%$ Yes FACW No FACW No FACW No FACW Problematic Hydrophytic Vegetation¹ (Provide suppordata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic.
FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW Yes FACW No
UPL species 0 x 5 = 0 Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ Yes FACW No F
Column Totals: 125 (A) 265 Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW Yes FACW No
Prevalence Index = B/A = 2.12 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ Yes FACW No FACW
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Yes FACW Yes FACW No FACW Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) No FACW Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) No FACW Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
X 2 - Dominance Test is >50% Yes FACW Yes FACW No FACW No FACW No FACW No FACW No FACW Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
Yes FACW 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) No FACW Problematic Hydrophytic Vegetation¹ (Explain) No FACW ¹Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
No FACW data in Remarks or on a separate sheet) No FACW Problematic Hydrophytic Vegetation¹ (Explain) No FACW ¹Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
No FACW Problematic Hydrophytic Vegetation¹ (Explain) No FACW Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
No FACW Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
present, unless disturbed or problematic.
present, unless disturbed or problematic.
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diame
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.
Harb. All harbassaus (non woods) plants regardle
Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Was decided All considerations and the second
Yes FACU Woody vines – All woody vines greater than 3.28 ft height.
Hydrophytic
Vegetation Present? Yes X No
al Cover

SOIL Sampling Point: Wet_7A-Y-7

Profile Descr Depth	iption: (Describe to Matrix	the de		ment the		tor or co	nfirm the absence of ir	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 2/1	100					Muck	
			10VD F/2					Distinct raday concentrations
10-20	10YR 2/2	90	10YR 5/3	10	С	<u>M</u>	Mucky Sand	Distinct redox concentrations
						—		
1 _{Turner} C. Co.		tion DN	Doduced Metrix M	C Mook		Crains	2l acetion, DI	=Pore Lining, M=Matrix.
Hydric Soil Ir		elion, Riv	I=Reduced Matrix, M	S=IVIASK	eu Sanu	Grains.		Problematic Hydric Soils ³ :
Histosol (Dark Surface (S7)				k (A10) (LRR K, L, MLRA 149B)
X Histic Epi	pedon (A2)		Polyvalue Belo	w Surfac	ce (S8) (L	RR R,		irie Redox (A16) (LRR K, L, R)
X Black His	tic (A3)		MLRA 149B)			5 cm Mucl	ky Peat or Peat (S3) (LRR K, L, R)
X Hydrogen			Thin Dark Surfa					Below Surface (S8) (LRR K, L)
	Layers (A5)	(0.4.4)	High Chroma S					Surface (S9) (LRR K, L)
	Below Dark Surface k Surface (A12)	(A11)	Loamy Mucky I			K K, L)		ranese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
	odic (A17)		Depleted Matrix		۷)			nt Material (F21) (outside MLRA 145)
	144A, 145, 149B)		Redox Dark Su		6)			low Dark Surface (F22)
Sandy Mu	ıcky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Exp	plain in Remarks)
Sandy Gle	eyed Matrix (S4)		X Redox Depress	sions (F8	3)			
Sandy Re			Marl (F10) (LR					s of hydrophytic vegetation and
Stripped I	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLR	RA 145)		hydrology must be present,
Postrictive I	ayer (if observed):						unless o	disturbed or problematic.
_	ayer (ii observeu).							
	ches):						Hydric Soil Present	? Yes <u>X</u> No
Remarks:							1.,	<u> </u>
Remarks:								



Wetland 7A-Y - View facing north



Wetland 7A-Y - 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	City/County: Catskill / Greene County Sampling Date: 9/30/2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_7A-Y-2
Investigator(s): C. Scrivner & K. Shumacher	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.14504	
Soil Map Unit Name: Ur - Udorthents, loamy	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time o	
Are Vegetation, Soil, or Hydrologysignifican	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrologynaturally	
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag 7A-Y-2
Remarks: (Explain alternative procedures here or in a separate re	
Palustrine forested wetland. Hardwood swamp.	·F/
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	ly) 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 Sulfi	de Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)Oxidized Rhizo	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	educed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Re	eduction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surf	face (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth	(inches):
	(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 ph	notos, previous inspections), if available:
Remarks:	
Remarks.	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	55	Yes	FAC	
. Acer negundo	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
Acer negunao		103	170	That Are Obl., I AOW, OF I AO.
·		• ———		Total Number of Dominant Species Across All Strata: 7 (B)
·				Species Across Air Strata.
·		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B
				That Are OBL, FACW, or FAC: 71.4% (A/B Prevalence Index worksheet:
·	80	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')		= 10lai Covei		OBL species 0 x 1 = 0
·	35	Voc	EACW/	
. Viburnum cassinoides	35	Yes	FACW	FACW species 45 x 2 = 90
•		- —		FACUS procies 100 x 3 = 300
· ;		- ——		FACU species 18 x 4 = 72
		- —		UPL species 20 x 5 = 100
		-		Column Totals: 183 (A) 562 (E
·				Prevalence Index = B/A = 3.07
				Hydrophytic Vegetation Indicators:
	35	_=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
. Artemisia vulgaris	20	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
Praxinus pennsylvanica	10	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
B. Parthenocissus quinquefolia	5	No	FACU	data in Remarks or on a separate sheet)
Toxicodendron radicans	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Celastrus orbiculatus 6.	5	<u>No</u>	FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
		•		
).		•		Tree – Woody plants 3 in. (7.6 cm) or more in diamet 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.		•		
	45	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30')	-10	=10tar 00.0.		
. Parthenocissus quinquefolia	15	Yes	FAC	Woody vines – All woody vines greater than 3.28 ft in height.
. Faithenoussus quinquoisia	8	Yes	FACU	Height.
Coloctrus orbiculatus		100	FACC	Hydrophytic
				Vegetation
3.				_
	23	=Total Cover		Present? Yes X No

SOIL Sampling Point: Wet_7A-Y-2

		the dep				or or co	nfirm the absence of ind	icators.)
Depth	Matrix			x Feature		2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/1	95	10YR 5/4	5	С	M	Loamy/Clayey	
1							2	
	ncentration, D=Deplet	tion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		Pore Lining, M=Matrix.
Hydric Soil II			Dorle Curto on /6	07)				Problematic Hydric Soils ³ :
Histosol (Dark Surface (S	•	oo (CO) (I	DD D		(A10) (LRR K, L, MLRA 149B)
Black His	pedon (A2)		Polyvalue Below		Je (36) (L	.NN N,		e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa		(I RR R	MI RA 1		elow Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					urface (S9) (LRR K, L)
	Below Dark Surface (A11)	Loamy Mucky M					nese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	,	Loamy Gleyed	•		,,		oodplain Soils (F19) (MLRA 149B)
	odic (A17)		Depleted Matrix		,			Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su		6)			w Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Depleted Dark				Other (Expla	ain in Remarks)
Sandy GI	eyed Matrix (S4)		X Redox Depress	sions (F8	3)		<u>—</u>	
Sandy Re	edox (S5)		Marl (F10) (LRI	R K , L)			³ Indicators of	of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) (MLR	A 145)	wetland h	ydrology must be present,
							unless dis	sturbed or problematic.
	ayer (if observed):							
Type:	Rock / Ro	oots						
Depth (in	ches):	14					Hydric Soil Present?	Yes <u>X</u> No
Remarks:								



Wetland 7A-Y - View facing north



Wetland 7A-Y - 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		City/County: Catskill / Greene County	Sampling Date: 9/30/2022
Applicant/Owner: TDI		State: NY	Sampling Point: Upl_7A-Y
Investigator(s): C. Scrivner & K. Shumacher		Section, Township, Range:	
Landform (hillside, terrace, etc.): Flat	Local re	elief (concave, convex, none): None	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.14448°N	Long: -73.90804°W	Datum: WGS84
Soil Map Unit Name: Ur - Udorthents, loamy		NWI classification:	NA VOCO
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes <u>x</u> No (If no,	explain in Remarks.)
• •			
Are Vegetation, Soil, or Hydro			
Are Vegetation, Soil, or Hydro			
SUMMARY OF FINDINGS – Attach	site map showing samp	oling 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 he	re or in a separate report.)		
Fill area adjacent to wetland.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require		Surface Soil Cracks	, ,
Surface Water (A1)	Water-Stained Leaves (B	9) Drainage Patterns ((B10)
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 (C	<u> </u>	C8)
Sediment Deposits (B2)	Oxidized Rhizospheres or		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	n (C4) Stunted or Stressed	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	` ′ —	` '
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	,
Inundation Visible on Aerial Imagery (B7)			, ,
Sparsely Vegetated Concave Surface (Bi	8)	FAC-Neutral Test (I	D5)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches):		
· · · · · · · · · · · · · · · · · · ·	No X Depth (inches):	Wetland Hydrology Present?	Yes No _X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	rious inspections), if available:	
Built			
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
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: 0.0% (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. Juniperus virginiana	15	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 20 x 4 = 80
4.				UPL species 40 x 5 = 200
5				Column Totals: 60 (A) 280 (B)
6.				Prevalence Index = B/A = 4.67
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
Centaurea stoebe	25	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Solidago juncea	15	Yes	UPL	4 - Morphological Adaptations (Provide supporting
Plantago lanceolata		No	FACU	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:
8.				Tree Weeds plants 2 in (7.5 cm) or more in diameter
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	45	=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:)		_ Total Gover		Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hadrantada
3				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Sampling Point: Upl_7A-Y

SOIL Sampling Point: Upl_7A-Y

Profile Desc Depth	ription: (Describe to Matrix	the dept		nent th Featur		or or co	nfirm the absence of	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	i
0-8	10YR 5/1	100					Sandy		Fill	
							Canay			
¹ Type: C=Cc	oncentration, D=Deple	tion RM=	Reduced Matrix MS	S=Mask	ed Sand	Grains	² I ocation: P	L=Pore Lining,	M=Matrix	•
Hydric Soil I			reduced mann, me	J-Mack	ou ound	Oramo.		or Problematic		
Histosol			Dark Surface (S	S7)				ıck (A10) (LRR	-	
	ipedon (A2)	_	Polyvalue Belov	v Surfac	e (S8) (L	.RR R,		rairie Redox (A		
Black His	stic (A3)	-	MLRA 149B)				5 cm Mu	icky Peat or Pe	at (S3) (L	.RR K, L, R)
Hydrogei	n Sulfide (A4)	-	Thin Dark Surfa	ice (S9)	(LRR R,	MLRA 1	49B) Polyvalu	e Below Surfac	e (S8) (L	RR K, L)
	Layers (A5)	-	High Chroma S					k Surface (S9)		
	Below Dark Surface	(A11)	Loamy Mucky N			R K, L)		nganese Masse		
	rk Surface (A12)	-	Loamy Gleyed	•	F2)			nt Floodplain So		
	oodic (A17)	-	Depleted Matrix		0)					ide MLRA 145)
	A 144A, 145, 149B)	-	Redox Dark Su					allow Dark Surf		
	ucky Mineral (S1) leyed Matrix (S4)	-	Depleted Dark : Redox Depress				Other (E	xplain in Rema	rks)	
	edox (S5)	-	Marl (F10) (LRI))		³ Indicato	rs of hydrophyt	ic vedetat	tion and
	Matrix (S6)	-	Red Parent Ma		21) (MLR	A 145)		nd hydrology mu		
	(,	•			, (-,		disturbed or p		
Restrictive L	ayer (if observed):							·		
Type:	Rock	(
Depth (in	nches):	8					Hydric Soil Preser	nt? Ye	s	No X
Remarks:	<u> </u>									



Upland 7A-Y - View facing southeast



Upland 7A-Y - 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	City/County: Catskill / Greene County Sampling Date: 9/30/2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_7A-Z-5
Investigator(s): C. Scrivner & K. Shumacher	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42.14	
Soil Map Unit Name: Mh - Medisaprists-Hydraquents, tidal ma	
<u> </u>	
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignif	icantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynatura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locations, transects, important features, etc.
Lhudaah, da Vanatatian Bassad2	In the Committed Association
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area
	within a Wetland? Yes X No
	If yes, optional Wetland Site ID: Near flag 7A-Z-5
Remarks: (Explain alternative procedures here or in a separat	e report.)
Palustrine scrub shrub wetland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	
Surface Water (A1) X Water-Stain	<u> </u>
High Water Table (A2) Aquatic Fau	
Saturation (A3) Marl Deposit	
— —	ulfide Odor (C1) Crayfish Burrows (C8)
	nizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	f Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) X Other (Expla	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
	pth (inches):
	pth (inches):
	pth (inches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if available:
garage, and garage, and garage,	1,
Remarks:	
Adjacent to the Hudson River.	

VEGETATION – Use scientific names of plants.

	EGETATION – Use scientific names of pla				Sampling Po	int: Wet_7A	1-∠- 3
Salix alba 5 Yes FACW Total Number of Dominant Species Total Number of Do	ree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Salix alba	Populus deltoides	10	Yes	FAC	Number of Dominant Species		
Species Across All Stratus 8	Salix alba	5	Yes	FACW	•	6	_(A)
Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0%					Total Number of Dominant		
Percent of Dominant Species That Are OBL, FACKW, or FAC: 75.0%	·		<u> </u>		Species Across All Strata:	8	_ (B)
Prevalence Index worksheet: Total % Cover of: Multiply by:					· ·		
15						75.0%	_ (A/B
apling/Shrub Stratum (Plot size: 15') 45 Yes FAC FACW FACW species 88 x 2 = 176 . Viburnum cassinoides 25 Yes FACW FACW species 88 x 4 = 32 204 . Viburnum cassinoides 25 Yes FACW FACW species 88 x 4 = 32 204 . Carex inclumes cons 0 x 5 = 0 0 Column Totals: 164 (A) 412 Prevalence Index = B/A = 2.51 2.51 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2	·		·				
Rhamnus cathartica		15	=Total Cover				
PAC species 68 x 3 204	apling/Shrub Stratum (Plot size: 15')						
FACU species 8	Rhamnus cathartica	45	Yes	FAC	FACW species 88 x	2 = 176	
UPL species 0 x 5 = 0 Column Totals: 164 (A) 412 Prevalence Index = B/A = 2.51	Viburnum cassinoides	25	Yes	FACW	FAC species 68 x	3 = 204	
Column Totals: 164 (A) 412 Prevalence Index = B/A = 2.51 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0° Y - Morphological Adaptations¹ (Provide suppressent, unless distant Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain Remarks or on a separate sheet) Problematic Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation MX 2 - Pominance Test is >50% X 3 - Prevalence Index is ≤3.0° 4 - Morphological Adaptations¹ (Provide suppressent, unless distant Remarks or on a separate sheet) Problematic Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation MX 2 - Pominance Test is >50% X 3 - Prevalence Index is ≤3.0° 4 - Morphological Adaptations¹ (Provide suppressent Hydrophytic Vegetation MX 2 - Pominance Test is >50% X 3 - Prevalence Index is ≤50% X 3 - Preval	·				FACU species 8 x	4 = 32	
Prevalence Index = B/A = 2.51					UPL species 0 x	5 = 0	
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤ 3.01 A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain index is prevalent in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 3 - Prevalence Index is ≤ 3.01 A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation A - Morphological Adaptations¹ (Provide supr data in Remarks or on a separate sheet) Indicators of hydric soil and wetland hydrology messent, unless disturbed or problematic A - Remarks or on a separate sheet) Indicators of hydric soil and wetland hydrology messent, unless disturbed or problematic	·				Column Totals: 164 (A	A) 412	(E
Total Cover					Prevalence Index = B/A =	2.51	
Stratum Plot size: 5'					Hydrophytic Vegetation Indicate	ors:	
Carex intumescens 35 Yes FACW X 3 - Prevalence Index is ≤3.0¹ Eraxinus pennsylvanica 15 Yes FACW 4 - Morphological Adaptations¹ (Provide suppdata in Remarks or on a separate sheet) Lysimachia nummularia 8 No FACW Problematic Hydrophytic Vegetation¹ (Explain Toxicodendron radicans 5 No FAC Problematic Hydrophytic Vegetation¹ (Explain Indicators of hydric soil and wetland hydrology material present, unless disturbed or problematic. Equisetum arvense 3 No FAC Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in dia at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall. 2. 71 =Total Cover Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Moody Vine Stratum (Plot size: 30') 5 Yes FACU Parthenocissus quinquefolia 3 Yes FACU Hydrophytic		70	=Total Cover		1 - Rapid Test for Hydrophytic	c Vegetation	
. Fraxinus pennsylvanica 15 Yes FACW Lysimachia nummularia 8 No FAC Acer rubrum 5 No FAC Toxicodendron radicans 5 No FAC Equisetum arvense 3 No FAC Definitions of Vegetation Strata: Tree – Woody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU 15 Yes FACU 4 - Morphological Adaptations¹ (Provide supposition on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain on a separate sheet) Problematic Hydrophytic Veg	lerb Stratum (Plot size:5')				X 2 - Dominance Test is >50%		
Lysimachia nummularia 8	. Carex intumescens	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
Acer rubrum 5 No FAC Problematic Hydrophytic Vegetation (Explain Toxicodendron radicans 5 No FAC Indicators of hydric soil and wetland hydrology material present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in dia at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall.	. Fraxinus pennsylvanica	15	Yes	FACW			
. Toxicodendron radicans . Equisetum arvense . Sapling/shrub – Woody Plants is expected by the Stratum (Plot size: 30') . Celastrus orbiculatus . Parthenocissus quinquefolia . Equisetum arvense . 3 No FAC 1 Indicators of hydric soil and wetland hydrology many present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in dia at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 height. Hydrophytic	. Lysimachia nummularia	8	No	FACW	data in Remarks or on a se	eparate sheet))
Equisetum arvense 3 No FAC Indicators of hydric soil and wetland hydrology may present, unless disturbed or problematic.	. Acer rubrum	5	No	FAC	Problematic Hydrophytic Veg	etation ¹ (Expla	ain)
Equisetum arvense 3 No FAC present, unless disturbed or problematic.	. Toxicodendron radicans	5	No	FAC	1 Indicators of hydric soil and wetter	and hydrology	muet l
Tree – Woody plants 3 in. (7.6 cm) or more in dia at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU Parthenocissus quinquefolia 3 Yes FACU Hydrophytic	. Equisetum arvense	3	No	FAC			must
Tree – Woody plants 3 in. (7.6 cm) or more in dia at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU Parthenocissus quinquefolia 3 Yes FACU Hydrophytic	•				Definitions of Vegetation Strata	1:	
at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DE and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Voody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU Parthenocissus quinquefolia 3 Yes FACU Hydrophytic					Tree – Woody plants 3 in. (7.6 cn	n) or more in d	diamete
1. Sapling/shrub – Woody plants less than 3 in. Defined and greater than or equal to 3.28 ft (1 m) tall. 2. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU Parthenocissus quinquefolia 3 Yes FACU Hydrophytic							
1	0				Sapling/shrub – Woody plants le	ess than 3 in. [ОВН
Total Cover Total Cover T	1						
Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30') Celastrus orbiculatus 5 Yes FACU Hydronhytic Parthenocissus quinquefolia 3 Yes FACU Hydronhytic	2				Herb – All herbaceous (non-wood	dv) plants, reg	ardles
. Celastrus orbiculatus 5 Yes FACU height. Parthenocissus quinquefolia 3 Yes FACU Hydrophytic		71	=Total Cover		•	• • • •	
. Celastrus orbiculatus 5 Yes FACU height. . Parthenocissus quinquefolia 3 Yes FACU Hydrophytic	Voody Vine Stratum (Plot size:30')				Woody vines - All woody vines o	reater than 3	28 ft in
Hydrophytic	. Celastrus orbiculatus	5	Yes	FACU		jicator triari 5	20 11 11
Hydrophytic	. Parthenocissus quinquefolia	3	Yes	FACU			
Vegetation					Hydrophytic		
					_	No	
8 =Total Cover		8	-Total Cover				

SOIL Sampling Point: Wet_7A-Z-5

Profile Descr	ription: (Describe to	the dep	th needed to docu	ment th	e indicat	or or co	nfirm the absence of	indicators.)
Depth	Matrix		Redox	k Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/1	100					Sandy	organics
3-6	10YR 2/2	90	10YR 4/6	10	С	<u>M</u>	Sandy	Prominent redox concentrations
6-12	2.5Y 3/1	70	10YR 4/6	30	С	М	Sandy	Prominent redox concentrations
								_
								-
								_
1			D. L. I. I. Marie C. Mr.					Dan Living M. Marti
Hydric Soil Ir	ncentration, D=Deple	tion, Rivi	=Reduced Matrix, Mi	S=IVIASK	ed Sand	Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol (Dark Surface (S	S7)				ck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Polyvalue Belov	,	ce (S8) (L	.RR R,		airie Redox (A16) (LRR K, L, R)
Black His	tic (A3)		MLRA 149B))			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		Thin Dark Surfa				49B) Polyvalue	e Below Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky N			R K, L)		ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		-2)			t Floodplain Soils (F19) (MLRA 149B)
	odic (A17) A 144A, 145, 149B)		Depleted Matrix Redox Dark Su		6)			ent Material (F21) (outside MLRA 145) allow Dark Surface (F22)
-	ucky Mineral (S1)		Depleted Dark	•	•			xplain in Remarks)
	eyed Matrix (S4)		Redox Depress				0 (2.	mprair in residune,
X Sandy Re			Marl (F10) (LRI		,		³ Indicato	rs of hydrophytic vegetation and
X Stripped I	Matrix (S6)		Red Parent Ma	terial (F	21) (MLR	A 145)	wetlan	d hydrology must be present,
							unless	disturbed or problematic.
	ayer (if observed):							
Type:	Root							
Depth (in	ches):	12					Hydric Soil Presen	t? Yes X No
Remarks:								



Wetland 7A-Z - View facing west



Wetland 7A-Z - 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		City/County: Catskill / Greene County	Sampling Date: 9/30/2022				
Applicant/Owner: TDI		State: NY	Sampling Point: Upl_7A-Z-5				
Investigator(s): C. Scrivner & K. Shumacher		Section, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope		elief (concave, convex, none): Convex	Slope %: 10				
Subregion (LRR or MLRA): LRR R	Lat: 42.14358°N	Long:73.90819°W	Datum: WGS84				
Soil Map Unit Name: Mh - Medisaprists-Hyd		NWI classification:	NA VOOT				
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)				
•							
Are Vegetation, Soil, or Hydro	<u></u>						
Are Vegetation, Soil, or Hydro	ologynaturally problemat	tic? (If needed, explain any answers in	Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing samp	oling 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 he	ere or in a separate report.)						
Successional shrubland / hillslope.	,						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)				
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracks	s (B6)				
Surface Water (A1)	Water-Stained Leaves (B	9) Drainage Patterns ((B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (C	C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres of	n Living Roots (C3) Saturation Visible o	n Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iro	n (C4) Stunted or Stressed	d Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position	on (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	03)				
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remark	(s) Microtopographic R	telief (D4)				
Sparsely Vegetated Concave Surface (E	38)	FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches):		Yes No _ X				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	rious 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
2.				That Are OBL, FACW, or FAC:(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.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Rhamnus cathartica	75	Yes	FAC	FACW species 5 x 2 = 10
2. Viburnum cassinoides	5	No	FACW	FAC species75 x 3 =225
3.				FACU species 20 x 4 = 80
4.				UPL species0 x 5 =0
5				Column Totals: 100 (A) 315 (B)
6.				Prevalence Index = B/A = 3.15
7.				Hydrophytic Vegetation Indicators:
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8. 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
		=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	10	Yes	FACU	height.
2. Celastrus orbiculatus	10	Yes	FACU	
3.				Hydrophytic Vegetation
4.				Present? Yes No X
	20	=Total Cover		
Remarks: (Include photo numbers here or on a separa				·L
	,			

Sampling Point: Upl_7A-Z-5

SOIL Sampling Point: Upl_7A-Z-5

Profile Desc	ription: (Describe to	the dept	h needed to docu	ment th	e indicat	or or co	onfirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	es		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-3	10YR 4/3	100					Sandy organics
3-8	10YR 4/2	100					Sandy
	10110 4/2	100					Gariay
							·
¹ Type: C=Co	ncentration, D=Deple	tion RM=I	Reduced Matrix, M	S=Mask	ed Sand (Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I		,	, , , , , , , , , , , , , , , , , , , ,				Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)			2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)	_	Polyvalue Belo	w Surfac	ce (S8) (L	RR R,	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)	_	MLRA 149B))			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)	_	Thin Dark Surfa	ace (S9)	(LRR R,	MLRA 1	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	_	High Chroma S	ands (S	11) (LRR	K, L)	Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky I			K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	_	Loamy Gleyed		- 2)		Piedmont Floodplain Soils (F19) (MLRA 149B)
	odic (A17)	_	Depleted Matrix	. ,			Red Parent Material (F21) (outside MLRA 145)
•	A 144A, 145, 149B)	_	Redox Dark Su				Very Shallow Dark Surface (F22)
	ucky Mineral (S1)	_	Depleted Dark				Other (Explain in Remarks)
	leyed Matrix (S4) edox (S5)	_	Redox Depress Marl (F10) (LR)		3)		³ Indicators of hydrophytic vegetation and
	Matrix (S6)	_	Red Parent Ma		21) (MI R	Δ 145)	wetland hydrology must be present,
	Wattix (OO)	-		torial (i	er) (MER	A 140)	unless disturbed or problematic.
Restrictive L	ayer (if observed):						unicss disturbed of problematic.
	Roots/R	ocks					
_	ches):	8					Hydric Soil Present? Yes No _X
							Tryuno con riesent.
Remarks:							



Upland 7A-Z - View facing east



Upland 7A-Z - 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	City/County: Catskill / Greene County Sampling Date: 9/30/2022
Applicant/Owner: TDI	State: NY Sampling Point: Wet_7A-Z-17
Investigator(s): C. Scrivner & K. Shumacher	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): LRR R Lat: 42.14418	
Soil Map Unit Name: Mh - Medisaprists-Hydraquents, tidal marsh	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of	
	
Are Vegetation, Soil, or Hydrologysignificar	· — —
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Near flag 7A-Z-17
Remarks: (Explain alternative procedures here or in a separate re	
Palustrine forested wetland. Hardwood swamp.	1 - 7
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y) 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)
X Saturation (A3)Marl Deposits (B15) X Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sulfid	de Odor (C1) Crayfish Burrows (C8)
X Sediment Deposits (B2) Oxidized Rhizo	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Re	duced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Re	duction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surf	ace (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain	in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth	(inches):
	(inches): 16
Saturation Present? Yes X No Depth	(inches): 4 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus deltoides	40	Yes	FAC	
2. Salix alba	20	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
3. Ulmus americana	10	No	FACW	
4. Fraxinus pennsylvanica	5	No	FACW	Total Number of Dominant Species Across All Strata: 7 (B)
5.				Don't at Deminant Consider
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)
7.				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'))	•		OBL species 0 x 1 = 0
1. Viburnum cassinoides	35	Yes	FACW	FACW species 113 x 2 = 226
2. Rhamnus cathartica	20	Yes	FAC	FAC species 70 x 3 = 210
3. Fraxinus pennsylvanica	10	No	FACW	FACU species 10 x 4 = 40
4. Salix alba	5	No	FACW	UPL species 0 x 5 = 0
5.				Column Totals: 193 (A) 476 (B)
6.				Prevalence Index = B/A = 2.47
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5')		•		X 2 - Dominance Test is >50%
1. Fraxinus pennsylvanica	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Bidens frondosa	5	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Equisetum arvense	5	No	FAC	data in Remarks or on a separate sheet)
4. Phragmites australis	3	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
11.	<u> </u>	<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.
12.	<u> </u>	<u> </u>		Herb – All herbaceous (non-woody) plants, regardless
	33	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:))			Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	10	Yes	FACU	height.
2. Toxicodendron radicans	5	Yes	FAC	
3.	<u> </u>			Hydrophytic Vegetation
				Present? Yes X No
4.				1 1 1 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Sampling Point: Wet_7A-Z-17

SOIL Sampling Point: Wet_7A-Z-17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix			Redox Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 2/2	100					Sandy	organics	
4-10	10YR 3/1	80	10YR 4/4	15	<u>C</u>	PL/M	Sandy	Distinct redox concentrations	
			5YR 3/4	5	С	PL		Prominent redox concentrations	
10-20	10YR 4/1	75	5YR 3/4	25	C	M	Sandy	Prominent redox concentrations	
1									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :								· ·	
Histosol (Dark Surface (S7)				2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist	pedon (A2)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen		•				Below Surface (S8) (LRR K, L)			
	Layers (A5)		High Chroma Sands (S11) (LRR K, L)				Thin Dark Surface (S9) (LRR K, L)		
X Depleted Below Dark Surface (A11)			Loamy Mucky Mineral (F1) (LRR K, L)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)			Loamy Gleyed Matrix (F2)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Mesic Spodic (A17)			Depleted Matrix (F3)				Red Parent Material (F21) (outside MLRA 145)		
(MLRA 144A, 145, 149B)			Redox Dark Surface (F6)				Very Shallow Dark Surface (F22)		
Sandy Mucky Mineral (S1)			Depleted Dark Surface (F7)				Other (Explain in Remarks)		
Sandy Gleyed Matrix (S4)			Redox Depressions (F8)						
X Sandy Redox (S5)			Marl (F10) (LRR K, L)				³ Indicators of hydrophytic vegetation and		
Stripped Matrix (S6)			Red Parent Material (F21) (MLRA 145)				wetland hydrology must be present,		
						unless disturbed or problematic.			
	ayer (if observed):								
Type:									
Depth (inc	ches):					Hydric Soil Present	t? Yes X No		
Remarks:									