

PEM Wetland DC- View facing North.



PEM Wetland DC- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene	<u> </u>	Sampling [Date: June 8, 2022	
Applicant/Owner:	СНА	<u> </u>		State:	NY		Sampling P	Point: DP-DC-PFO	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	: Catskill			
	-	Depression			f (concave, conv		Concave	Slope (%): 1	
Landform (hillslope,						•			
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat: 42.203717	°N L	ong: 73.89341	<u>0°W</u>	Datum: NAD83	
Soil Map Unit Name	: - Hudson an	d Vergennes soils,	, 3 to 8 percent	t slopes			NWI classification:	Not Mapped	
Are climatic / hydrol	ogic conditions or	the site typical for	this time of ye	ear? Yes	X No	(If no	o, explain in Remarks.	;.)	
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	? Ar	re "Normal Circur	mstances" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If	needed, explain	any answers in Rem	narks.)	
SUMMA	ARY OF FIND	NGS – Attach	າ site map :	showing sam	pling point	locations, tr	ansects, impor	tant features, etc.	
Hydrophytic Vege	station Present?	Yes	X No		Is the Sample	-d Area			
Hydric Soil Presei		Yes			within a Wetla		Yes X	No	
Wetland Hydrolog		Yes	No		If ves. optional	I Wetland Site ID): DC		
PFO Wetland D	C located withir	small, forested	area adjacer	nt to an open gra	ass field.				
HYDROLOGY									
Wetland Hydrolo	gy Indicators:						Secondary Indicators	s (minimum of two required)	
Primary Indicators	s (minimum of one	is required; check	all that apply)	l			Surface Soil Cracks	s (B6)	
Surface Wate	er (A1)		Water-	-Stained Leaves (E	B9)	Х	Drainage Patterns ((B10)	
High Water 1	Γable (A2)		Aquati	ic Fauna (B13)			Moss Trim Lines (B	316)	
Saturation (A	43)		Marl D	Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks	; (B1)		Hydro	gen Sulfide Odor ((C1)	Crayfish Burrows (C8)			
Sediment De				ed Rhizospheres	_				
Drift Deposits			_	nce of Reduced Iro	, ,	Stunted or Stressed Plants (D1)			
Algal Mat or	` ,			nt Iron Reduction in	•	6) <u>X</u>	•		
Iron Deposits		(5.7)	_	Muck Surface (C7)			Shallow Aquitard (C	•	
_	isible on Aerial Im getated Concave		Otner	(Explain in Remar	·ks)		Microtopographic R FAC-Neutral Test (I		
Field Observatio		,						,	
Surface Water Pre		Yes No	X Depth	n (inches):					
Water Table Pres		Yes No				Wetland Hyd	rology Present?	Yes NoX	
Saturation Presen	nt?	Yes No				-			
(includes capillary	fringe)								
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial phot	os, previous inspe	ections), if availa	ble:			
Remarks: Wetland hydrolo	ogy present at the	ne Data Point.							

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:			
Fraxinus pennsylvanica	65	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC	: 4 (A)		
2				That Are OBL, I AGW, OF I AG	(A)		
3.				Total Number of Dominant Species Across All Strata:	5 (B)		
					<u></u> (D)		
4				Percent of Dominant Species That Are OBL, FACW, or FAC	: 80 (A/B)		
5					(1 =)		
6				Prevalence Index worksheet	:		
7				Total % Cover of:	Multiply by:		
	65	= Total Cover		OBL species 0			
Sapling/Shrub Stratum (Plot size: 15 ft.)				' '	x 2 = 210		
1. Frangula alnus	15	Yes	FAC	FAC species 35			
2. Lonicera morrowii	10	Yes	FACU	FACU species 10 UPL species 0	x = 40 x = 0		
3				Column Totals: 150	(A) 355 (B)		
4				Coldinii Totals. 150	(A) <u>333 </u>		
5.				Prevalence Index = B/A	= 2.36		
0				Hydrophytic Vegetation India	cators:		
7				1 - Rapid Test for Hydrop			
				X 2 - Dominance Test is >5			
	25	= Total Cover		X 3 - Prevalence Index is ≤			
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adapta data in Remarks or or	ions' (Provide supporting		
Impatiens capensis	30	Yes	FACW				
Phragmites australis	10	No	FACW	Problematic Hydrophytic	Vegetation ¹ (Explain)		
Toxicodendron radicans	20	Yes	FAC	Indicators of hydric soil and wetland hydrology must			
4				be present, unless disturbed or problematic.			
5				Definitions of Vegetation Str	ata:		
6.				Tree – Woody plants 3 in. (7.6	cm) or more in diameter		
7				at breast height (DBH), regard	less of height.		
8.				Sapling/shrub – Woody plants	s less than 3 in. DBH		
9.				and greater than or equal to 3.			
				Herb – All herbaceous (non-we	oody) plants, regardless of		
10				size, and woody plants less that	an 3.28 ft tall.		
11				Woody vines – All woody vine	s greater than 3.28 ft in		
12				height.			
	60	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1							
2.				Hydrophytic Vegetation			
3.				Present? Yes	X No		
4							
· ·		T-4-1 O					
	0	= Total Cove	; i	L			
Remarks: (Include photo numbers here or on a separ Hydrophytic vegetation found at the Data Point							
, a. op., , no regetation realization at the Data rein	•						

Sampling Point: DP-DC-PFO

SOIL Sampling Point: DP-DC-PFO 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 80 7.5YR 5/8 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): 8 Hydric Soil Present? Yes No Remarks: Could not dig past 8 inches due to root / compaction, hydric soils present at the Data Point.



PFO Wetland DC- View facing North.



PFO Wetland DC- Soils

SITE PHOTOGRAPHS

Project/Site: CHPE Phase 7	City/County: Catskill Sampling Date: 12/7/21
Applicant/Owner: CHA	State: NY Sampling Point: EC-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: 42.19955	Long: -73.89682 Datum: NAD83
Soil Map Unit Name:	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation No, Soil N, or Hydrology N significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problema	atic? (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
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland EC	
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) And Barasita (B45)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (Dry-Season Water Table (C2) C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) X Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>
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):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections) if available:
2000,000,000,000,000,000,000,000,000,00	
Remarks:	

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 EC-2

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
Juniperus virginiana	30	Yes	FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 5 (A)
3.		<u> </u>		
4.				Total Number of Dominant Species Across All Strata: 7 (B)
				Decision visites visit circular.
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 71.4% (A/B)
7				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Lonicera	20	Yes	FACU	FACW species 70 x 2 = 140
2. Rhamnus cathartica	20	Yes	FAC	FAC species 45 x 3 = 135
3.				FACU species 50 x 4 = 200
4.				UPL species 0 x 5 = 0
5.				· — —
· -				```
6				Prevalence Index = B/A =2.88
7				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Onoclea sensibilis	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Solidago	20	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Phragmites australis	50	Yes	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
· -				¹Indicators of hydric soil and wetland hydrology must
6	-			be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
12.				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
1. Vitis riparia	5	Yes	FAC	height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes x No
	5	=Total Cover		<u> </u>
		- Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL Sampling Point EC-2

		the dep				ator or co	onfirm the absence of in	ndicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks		
					Туре					
0-16	10yr 3/2	85	10yr 5/6	15			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 In								Problematic Hydric Soils ³ :		
Histosol (•		Polyvalue Belov		.ce (S8) (LRR R,		(A10) (LRR K, L, MLRA 149B)		
	pedon (A2)		MLRA 149B)	,				rie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa					y Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)		
	Layers (A5)	(444)	Loamy Mucky N			RK,L)		Surface (S9) (LRR K, L)		
	Below Dark Surface ((A11)	Loamy Gleyed		F2)			nnese Masses (F12) (LRR K, L, R)		
	k Surface (A12) ucky Mineral (S1)		X Depleted Matrix Redox Dark Su		-6)			Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B)		
	eyed Matrix (S4)		Depleted Dark					t Material (F21)		
Sandy Re			Redox Depress					ow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LRI	-	0)		Other (Explain in Remarks)			
Dark Surf				, -,				,		
	\ /									
³ Indicators of	hydrophytic vegetatio	n and w	etland hydrology mι	ust be p	resent, u	nless dist	urbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Present?	Yes X No		
Remarks:	<u> </u>									
rtomanto.										



Wetland EC - Soils

Phase 7

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	е	Sampling Date:	June 8, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-EC/DC-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill	!		
Landform (hillslope,		Plain			f (concave, con			Slope (%):1	
	·	LRR R			,			Datum: NAD83	
Subregion (LRR or I	-	LKK K		Lat: 42.202437	N I	Long: 73.894446°W			
Soil Map Unit Name								Mapped	
Are climatic / hydrol	_		-			o (If no, explain	·		
	, Soil					Are "Normal Circumstances	" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain any answ	wers in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	n site map :	showing sam	pling point	t locations, transect	s, important f	eatures, etc.	
Hydrophytic Vege	atation Present?	Yes	No	Х	Is the Sample	ed Area			
Hydric Soil Preser		-		X	within a Wetl		No _	X	
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:			
Remarks: (Explain a Upland Data Po					grass field.				
HYDROLOGY									
Wetland Hydrolo								num of two required)	
	s (minimum of one	is required; check					Soil Cracks (B6)		
Surface Wate			_	-Stained Leaves (E	39)		ge Patterns (B10)		
High Water T				c Fauna (B13)			rim Lines (B16)	·=-\	
Saturation (A	•			eposits (B15)	(04)	Dry-Season Water Table (C2)			
Water Marks			_	gen Sulfide Odor (Crayfish Burrows (C8)			
Sediment De			_	ed Rhizospheres	_				
Drift Deposits Algal Mat or	-			nce of Reduced Iron It Iron Reduction ir		C6) Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits	* *		_	luck Surface (C7)	-	-			
l 	s (65) 'isible on Aerial Im	20en/ (R7)		(Explain in Remar		Shallow Aquitard (D3) Microtopographic Relief (D4)			
	getated Concave S	. , ,		(Explain in Nomai	K5)		eutral Test (D5)	74)	
Field Observation		Jul. 200 (= 1,				 -	741.5		
Surface Water Pre		Yes No	X Depth	ı (inches):		ı			
Water Table Prese		Yes No				Wetland Hydrology P	resent? Yes	No X	
Saturation Presen		Yes No	·			· · · · · · · · · · · · · · · · · · ·	•		
(includes capillary				<u> </u>					
Describe Recorde	ed Data (stream ga	auge, monitoring w	vell, aerial photo	os, previous inspe	ections), if availa	able:			
Remarks:									
No wetland hydr	rology present a	t the Data Point	t.						

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Daminana Tasturakahast			
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test worksheet: Number of Dominant Species			
1				· ·	A)		
2				Total Number of Dominant			
3					В)		
4				Descent of Deminant Chapies			
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)		
5							
6				Prevalence Index worksheet:			
7				Total % Cover of: Multiply by:			
	0	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>	-		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0 \times 2 = 0$			
1				FAC species 10 x 3 = 30	_		
2				FACU species 90 x 4 = 360	-		
3				UPL species 0 x 5 = 0			
				Column Totals: 100 (A) 390	(B)		
4				Prevalence Index = B/A = 3.9			
5							
6				Hydrophytic Vegetation Indicators:			
7				1 - Rapid Test for Hydrophytic Vegetation 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			
1. Galium boreale	10	No	FAC	data in Remarks or on a separate sheet)			
2. Trifolium repens	15	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
3. Plantago lanceolata	15	No	FACU	¹ Indicators of hydric soil and wetland hydrology must			
4. Dipsacus laciniatus	35	Yes	FACU	be present, unless disturbed or problematic.			
5. Poa pratensis	25	Yes	FACU	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			
0				and greater than or equal to 3.28 ft (1 m) tall.			
9				Herb – All herbaceous (non-woody) plants, regardless of			
10				size, and woody plants less than 3.28 ft tall.			
11				Woody vines – All woody vines greater than 3.28 ft in			
12				height.			
	100	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1							
2				Hydrophytic			
				Vegetation			
3				Present? TesNO			
4							
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at the Data Point.							
No hydrophytic vegetation found at the Data Folht.							

SOIL Sampling Point: DP-EC-

x	Color (moist)	Features 7 Type 1 Loc2	Texture Remarks Silt			
			Silt			
						
etion, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.	2		
	Polyvalue Bolow S	urface (S8) (I PP P	Indicators for Problematic Hydric Soil			
		unace (36) (LKK K,				
	•	(S9) (LRR R, MLRA 149B)				
			Dark Surface (S7) (LRR K, L, M)	, , ,		
	Loamy Gleyed Mat	Polyvalue Below Surface (S8) (LRF	R K, L)			
ce (A11)	Depleted Matrix (F	3)	Thin Dark Surface (S9) (LRR K, L)			
			Iron-Manganese Masses (F12) (LR			
	Redox Depression	S (F0)		145, 1496)		
			Very Shallow Dark Surface (TF12)			
MLRA 149B)			Other (Explain in Remarks)			
	hydrology must be prese	nt, unless disturbed or proble	matic.			
				v		
			Hydric Soil Present? Yes	No <u>X</u>		
	:	MLRA 149B) Thin Dark Surface Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surface Depleted Dark Sur Redox Depression MLRA 149B) tion and wetland hydrology must be prese	Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) MLRA 149B) tion and wetland hydrology must be present, unless disturbed or proble	Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) MLRA 149B) MLRA 149B) MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LR Piedmont Floodplain Soils (F19) (M Mesic Spodic (TA6) (MLRA 144A, Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes		



Upland DC/EC- View facing North.



Upland DC/EC Soils

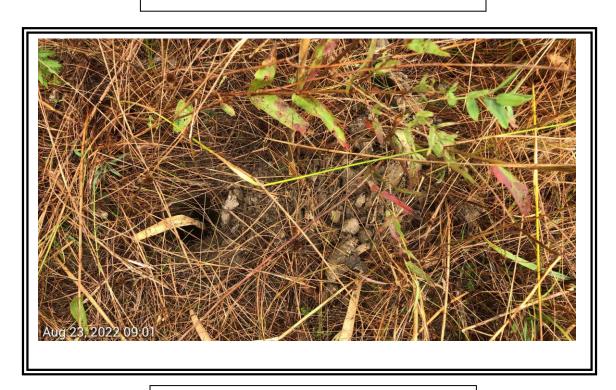
SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	Sampling Da	te: August 23, 2022		
Applicant/Owner:	CHA			State:	NY	Sampling Poir	nt: DP-GD		
Investigator(s):	Tristen Petersor	1		Section, To	ownship, Range:	Catskill			
					f (concave, convex, no		Slope (%): 1		
Landform (hillslope,	·	Drainageway							
Subregion (LRR or	-	LRR R		Lat: 42.199891	°N Long:	73.897246°W	Datum: NAD83		
Soil Map Unit Name	: HwC3 - Huds	son and Vergennes	s soils, 8 to 15 p	percent s		NWI classification:	lot Mapped		
lopes Are climatic /	hydrologic condition	ons on the site typi	ical for this time	of year?	X No	(If no, explain in Remarks.)			
XXess Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? Are "Nor	mal Circumstances" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If neede	ed, explain any answers in Remark	(S.)		
SUMMA	ARY OF FIND	INGS – Attach	n site map s	showing sam	pling point locat	tions, transects, importa	nt features, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampled Area	a			
Hydric Soil Prese	nt?	Yes			within a Wetland?	Yes X N	o		
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optional Wetla	and Site ID: GD			
HYDROLOGY									
Wetland Hydrolo	ogy Indicators:					Secondary Indicators (n	ninimum of two required)		
_		e is required; check	(all that annly)			X Surface Soil Cracks (I			
Surface Water		ris required, check		-Stained Leaves (E	Rg)	X Drainage Patterns (B	•		
High Water			_	c Fauna (B13)	59)	Moss Trim Lines (B16	•		
Saturation (A				eposits (B15)		Dry-Season Water Table (C2)			
Water Marks	•			gen Sulfide Odor ((C1)	Crayfish Burrows (C8)			
Sediment De	-		_	-	on Living Roots (C3)				
Drift Deposit	s (B3)		_	nce of Reduced Iro		Stunted or Stressed Plants (D1)			
Algal Mat or	Crust (B4)		Recent	t Iron Reduction ir	n Tilled Soils (C6)	X Geomorphic Position	(D2)		
Iron Deposits	s (B5)		Thin M	luck Surface (C7)		Shallow Aquitard (D3)			
	isible on Aerial Im		Other ((Explain in Remar	ks)	Microtopographic Reli			
Sparsely Ve	getated Concave	Surface (B8)				FAC-Neutral Test (D5)		
Field Observatio	ns:								
Surface Water Pre		Yes No							
Water Table Pres		Yes No			Wet	land Hydrology Present? Y	es No <u>X</u> _		
Saturation Preser		Yes No	X Depth	ı (inches):					
(includes capillary		arra manitaring w	eall porial phote	as provious inche	ections), if available:		_		
Describe Necorde	30 Data (Stream 9	auge, monitoring w	/eli, aeriai prion	JS, previous irispe	ections), ii avaliabie.				
Remarks:									
Wetland hydrolo	ogy present at the	ne Data Point.							

SOIL Sampling Point: DP-GD 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 10YR 5/8 Clay 10YR 5/8 10YR 4/2 70 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) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) 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): 10 Hydric Soil Present? Yes No Remarks: Could not dig past 10 inches due to gravel refusal, no hydric soils present at the Data Point.



PEM Wetland GD- View facing South.



PEM Wetland GD- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Hud	son Express		Cit	ity/County:	: Greene		Sampling Date:	August 23, 202	22
Applicant/Owner:	СНА			Sta	ate:	NY		Sampling Point:	DP-GD-Upland	d
Investigator(s):	Tristen Peterso	n		Sec	ction, Tow	nship, Range:	Catskill	_		
Landform (hillslope	e. terrace. etc.):	Hillslope		Loc	cal relief (c	concave, conve	x, none): Conve	=X	Slope (%):	3
Subregion (LRR or	·	LRR R			199783°N		ng: 73.897406°W		Datum: NAD8	
	-		0 to 45		199705 14	LO		ifiti NI-t I		
Soil Map Unit Name		nd Vergennes soils							Mapped	
Are climatic / hydro	logic conditions o	on the site typical fo	r this time of	year? Yes		<u>X</u> No	(If no, expla	ain in Remarks.)		
Are Vegetation _	, Soil	, or Hydrology	si	gnificantly dis	sturbed?	Are	"Normal Circumstand	ces" present?	Yes X No	<u> </u>
Are Vegetation _	, Soil	, or Hydrology	na	aturally proble	ematic?	(If n	eeded, explain any a	nswers in Remarks.)		
SUMM	ARY OF FIND	INGS – Attacl	n site mar	showinç	g sampl	ling point lo	ocations, transe	ects, important	features, etc.	
Hydrophytic Vog	otation Bracont?	Voc	N	o X		a tha Camplad	Araa			
Hydrophytic Vege Hydric Soil Prese		Yes ₋ Yes	N			s the Sampled vithin a Wetlan		s No	X	
Wetland Hydrolog		Yes	N			f ves optional V	Wetland Site ID:			
		dures here or in a s				7 7 1				
HYDROLOGY Wetland Hydrolo							Secon	dary Indicators (minir	mum of two requir	red)
=		e is required; check	k all that anni	w)			-	ace Soil Cracks (B6)	nam or mo roquin	<u> </u>
Surface Wat		e is required, check		er-Stained Le	eaves (BO)	١		nage Patterns (B10)		
High Water				atic Fauna (B		,	Moss Trim Lines (B16)			
Saturation (A				Deposits (B	-		Dry-Season Water Table (C2)			
Water Marks	•			rogen Sulfide		1)	Crayfish Burrows (C8)			
Sediment De				=	-	Living Roots (C	<u> </u>			
Drift Deposit				ence of Redu		-	Stunted or Stressed Plants (D1)			
Algal Mat or	Crust (B4)					illed Soils (C6)				
Iron Deposit	ts (B5)		Thin	Muck Surfac	ce (C7)		Shallow Aquitard (D3)			
Inundation \	Visible on Aerial Ir	nagery (B7)	Othe	er (Explain in	Remarks)	Microtopographic Relief (D4)			
Sparsely Ve	egetated Concave	Surface (B8)					FAC	-Neutral Test (D5)		
Field Observation	ons:									
Surface Water Pr	resent?	Yes No								
Water Table Pres	sent?	Yes No					Wetland Hydrology	Present? Yes	No _	X
Saturation Preser		Yes No	X Dep	oth (inches):						
(includes capillary						:\	1			
Describe Records	ed Data (stream g	gauge, monitoring w	zeii, aeriai pn	otos, previou	is inspecti	ions), if availabl	ie:			
Remarks:										
No wetland hyd	Irology present	at the Data Point	t.							

ee Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
· · · · · · · · · · · · · · · · · · ·		Орсскоз	Otatus	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/I
				Bassalanaa ladas saadah aat	
				Prevalence Index worksheet: Total % Cover of: Multiply by	:
		= Total Cover		OBL species 0 x 1 = 0	
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0 x 2 = 0$	
				FAC species <u>5</u> x 3 = <u>15</u>	
				FACU species <u>25</u> x 4 = <u>100</u>	
				UPL species <u>55</u> x 5 = <u>275</u>	
				Column Totals: <u>85</u> (A) <u>390</u>	(E
				Prevalence Index = B/A = 4.58	
				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 supp	orting
Daucus carota	30	Yes	UPL	data in Remarks or on a separate sheet)	_
Galium boreale	5	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain	n)
				¹ Indicators of hydric soil and wetland hydrology mu	
Tridens flavus	15	No	UPL	be present, unless disturbed or problematic.	191
Poa pratensis	15	No	FACU		
Trifolium repens	10	No	FACU	Definitions of Vegetation Strata:	
Leucanthemum vulgare	10	No	UPL	Tree – Woody plants 3 in. (7.6 cm) or more in dian	neter
				at breast height (DBH), regardless of height.	
				Sapling/shrub – Woody plants less than 3 in. DBI	4
				and greater than or equal to 3.28 ft (1 m) tall.	
)				Herb – All herbaceous (non-woody) plants, regard	less of
1.				size, and woody plants less than 3.28 ft tall.	
2.				Woody vines – All woody vines greater than 3.28 theight.	it in
		= Total Cover		noight.	
1.15 (0) (0) (0) (0)	95	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic	
				Vegetation	
				Present? Yes NoX	<u></u>
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate		<u></u>		•	
No hydrophytic vegetation found at the Data Point	<u> </u>				

SOIL Sampling Point: DP-GD-

Profile Descri	ption: (Describe to the	depth need	ed to document the i	ndicator or	confirm th	e absence o	of indicators.)				
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	Features %	Type ¹	Loc ²	Texture	Remarks			
			Color (moist)	70	Туро			remano			
0-6	10YR 5/3	100					Silt Loam				
¹ Type: C=Cond	centration, D=Depletion	, RM=Reduce	ed Matrix, MS=Masked	d Sand Grain	ns.		² Location: PL=Pore Lining	ı, M=Matrix.			
Hydric Soil Inc	dicators:						Indicators for Problematic	Hydric Soils ³ :			
Histosol (•	=	Polyvalue Below	Surface (S8	(LRR R,		2 cm Muck (A10) (LRR				
Histic Epipedon (A2) MLRA 149B) Plack Histic (A2) This Dark Surface (S0) (LBB B, MLBA 149B)					140D)	Coast Prairie Redox (A16) (LRR K, L, R)					
Black Histic (A3) Thin Dark Surface (S9) (LRR R, I Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR						(49B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)				
	Layers (A5)	-	Loamy Gleyed M				Polyvalue Below Surfa	· · · · · ·			
Depleted Below Dark Surface (A11)			Depleted Matrix (Thin Dark Surface (S9)	(LRR K, L)			
Thick Dark Surface (A12)			Redox Dark Surfa					es (F12) (LRR K, L, R)			
	ucky Mineral (S1)	_	Depleted Dark Su					oils (F19) (MLRA 149B)			
Sandy Glo	eyed Matrix (S4)	-	Redox Depressio	ns (F8)			Mesic Spodic (TA6) (M Red Parent Material (F	ILRA 144A, 145, 149B)			
	Matrix (S6)						Very Shallow Dark Surface (TF12)				
	ace (S7) (LRR R, MLRA	A 149B)					Other (Explain in Remarks)				
							_				
³ Indicators of h	nydrophytic vegetation a	ind wetland h	drology must be pres	ent, unless	disturbed o	r problematio	<u>c.</u>				
Restrictive La	yer (if observed):										
Type: Com	•										
Depth (inch	nes): 6						Hydric Soil Present? Yes	No X			
Remarks:		Б : .				, ,					
No hydric soi	Is present at the Data	a Point, cou	ld not dig past 6 inc	ches due to	gravei re	etusal.					



Upland GD- View facing South.



Upland GD- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Greene	9	Sampli	ng Date:	October 6, 2022	
Applicant/Owner:	СНА			State:	NY		Samplir	ng Point:	DP-TD	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	: Catskill				
Landform (hillslope,		Drainageway		<u> </u>	f (concave, conv		Concave		Slope (%): 1	
Subregion (LRR or I	,	LRR R		Lat: 42.195511	•	ong: 73.89993			Datum: NAD83	
		LINIX IX		Lat. 72.1000.1	IN _	.011g. 10.00000		Not N		
Soil Map Unit Name				0.1/	Y No	//4 :	NWI classificatio		Mapped	
Are climatic / hydrol	· ·	• •	•				o, explain in Rema			
				nificantly disturbed		re "Normal Circui	mstances" presen	t?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	? (If	needed, explain	any answers in R	emarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	ı site map	showing sam	pling point	locations, tr	ransects, imp	ortant f	eatures, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area				
Hydric Soil Presei		Yes	X No		within a Wetla		Yes X	No _		
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional	l Wetland Site ID): <u>TD</u>		_	
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Indica	tors (minir	num of two required)	
_	s (minimum of one	is required; check	all that apply)			Surface Soil Cra		, , ,	
Surface Wate	•			r-Stained Leaves (E	B9)	X	X Drainage Patterns (B10)			
X High Water 1	Γable (A2)		Aquat	ic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A	43)		Marl [Marl Deposits (B15)			Dry-Season Water Table (C2)			
Water Marks			Hydrogen Sulfide Odor (C1)				Crayfish Burrows (C8)			
Sediment De			Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)				Saturation Visible on Aerial Imagery (C9)			
Drift Deposits Algal Mat or					<u>X</u>	Stunted or Stressed Plants (D1)X Geomorphic Position (D2)				
Iron Deposits	* *			nt Iron Reduction ir Muck Surface (C7)	· ·	o) <u>~</u>	Shallow Aquitar		ı	
l —	isible on Aerial Im	agery (B7)		(Explain in Remar			Microtopograph		D4)	
	getated Concave S		_	(=-)	,	_	FAC-Neutral Te		- ',	
Field Observatio										
Surface Water Pre		Yes No								
Water Table Prese		Yes X No	·			Wetland Hyd	rology Present?	Yes	X No	
Saturation Presen		Yes X No	Dept	h (inches): 1						
(includes capillary Describe Recorde		unae monitorina w	ell aerial pho	tos, previous inspe	ections) if availa	ahle.				
	74 Data (c	age,	OII, GO p	100, p. 0	701101107, 11 2.12					
Remarks: Wetland hydrolo	ogy present at th	e Data Point.								
77011011011101110	/g) prood a	o baia i c								

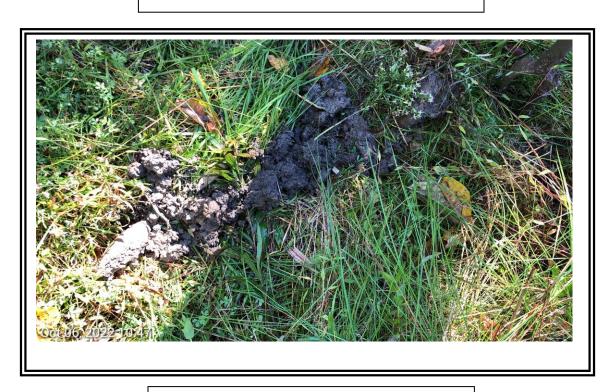
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
,	70 COVC1	Ореслез	Otatus	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant Species Across All Strata: 1 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
7		= Total Cover		OBL species 5 x 1 = 5
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 85 x 2 = 170
1				FAC species 10 x 3 = 30
2.				FACU species <u>0</u> x 4 = <u>0</u>
3.				UPL species <u>0</u> x 5 = <u>0</u>
4.				Column Totals: 100 (A) 205 (B)
				Prevalence Index = B/A = 2.05
5				Hydrophytic Vegetation Indicators:
7				X 1 - Rapid Test for Hydrophytic Vegetation
·				X 2 - Dominance Test is >50%
Under Observer (Diet sings 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5 ft.)				data in Remarks or on a separate sheet)
1. Phragmites australis	70		FACW	2.1
2. Solidago rugosa	10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Symphyotrichum novae-angliae	15	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex flava		No	OBL	
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
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 <u>X</u> No
4				
	0	= Total Cover	r	
Remarks: (Include photo numbers here or on a separate sheet.)				
Hydrophytic vegetation found at the Data Point.				
				I

Sampling Point: DP-TD

SOIL Sampling Point: DP-TD 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 0-15 10YR 2/1 70 10YR 5/6 Silty 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) 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: Bedrock Depth (inches): 15 Hydric Soil Present? Yes No Remarks: Could not dig past 15 inches due to bedrock, hydric soils present at the Data Point.



PEM Wetland TD- View facing North.



PEM Wetland TD- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	October 6, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-TD-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill			
Landform (hillslope,		Hillslope			f (concave, con			Slope (%): 3	
	•				,			Slope (%)3	
Subregion (LRR or I		LRR R		Lat: 42.195821	°N	Long: 73.899694°W			
Soil Map Unit Name): <u>-</u>							Mapped	
Are climatic / hydrol	logic conditions on	the site typical for	this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	l? A	Are "Normal Circumstances	" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	arally problematic?	? (I	If needed, explain any ansv	wers in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map s	showing sam	pling point	t locations, transect	s, important f	features, etc.	
Hydrophytic Vege	etation Present?	Yes	No	X	Is the Sampl	ed Area			
Hydric Soil Preser		-		X	within a Wet		No _	X	
Wetland Hydrolog		_	No		If yes, optiona	al Wetland Site ID:			
HYDROLOGY									
Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minin	mum of two required)	
		is required; check	all that apply)			·	Soil Cracks (B6)		
Surface Wate		•		-Stained Leaves (I	B9)	· · · · · · · · · · · · · · · · · · ·	ge Patterns (B10)		
High Water T				c Fauna (B13)	•		rim Lines (B16)		
Saturation (A	43)		Marl Do	eposits (B15)		Dry-Season Water Table (C2)			
Water Marks	s (B1)		Hydrog	gen Sulfide Odor ((C1)	Crayfish Burrows (C8)			
Sediment De	posits (B2)		Oxidize	ed Rhizospheres	on Living Roots				
Drift Deposits (B3)				nce of Reduced Iro		Stunted or Stressed Plants (D1)			
Algal Mat or	* *			t Iron Reduction in	•		rphic Position (D2))	
Iron Deposits		(DZ)		fuck Surface (C7)			v Aquitard (D3)	~ ^	
	isible on Aerial Imgetated Concave S	• , ,	Otner ((Explain in Remar	rks)		pographic Relief ([eutral Test (D5)) 4)	
Field Observation							7411211 /		
Surface Water Pre		Yes No	X Depth	ı (inches):					
Water Table Prese		Yes No				Wetland Hydrology P	resent? Yes	No X	
Saturation Presen	nt?	Yes No	·				•	<u> </u>	
(includes capillary									
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial photo	os, previous inspe	ections), if avail	able:			
Remarks:									
No wetland hydr	rology present a	t the Data Point							

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

Herb Stratum (Plot size: 5 ft.)

2. Ambrosia artemisiifolia

1. Solidago canadensis

3. Centaurea stoebe

4. Dipsacus sativus 5. Leucanthemum vulgare

Tree Stratum (Plot size: 30 ft.)

o			at breast height (DBH), regardless of height.
8.			Sapling/shrub – Woody plants less than 3 in. DBH
9.			and greater than or equal to 3.28 ft (1 m) tall.
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	
/oody 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 she No hydrophytic vegetation found at the Data Point.	eet.)		
S Army Corps of Engineers			Northcentral and Northeast Region – Version 2.0
3 Army Corps of Engineers			Northcentral and Northeast Region – Version 2.0

20____

15

SOIL Sampling Point: DP-TD-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 0-11 10YR 4/3 100 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) 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 Hydric Soil Present? Yes No X Depth (inches): 11 Remarks: Could not dig past 11 inches due to compaction, no hydric soils present at the Data Point.



Upland TD- View facing North.



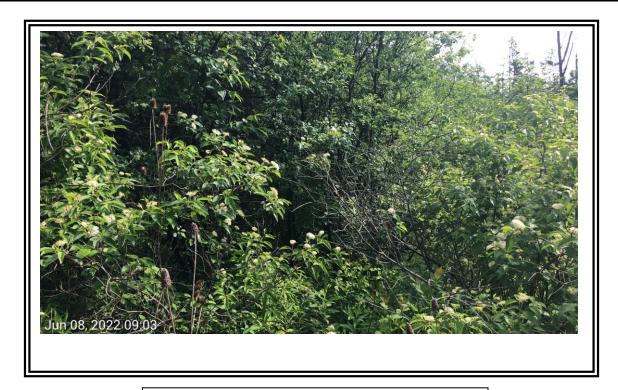
Upland TD Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling	Date:	June 8, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling	Point:	DP-FC	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill				
Landform (hillslope,	•	Drainageway			ef (concave, conv		Concave		Slope (%):	2
Subregion (LRR or I	·	LRR R		Lat: 42.190295	,	Long: 73.90440			Datum: NAD8	
	-	LNN N		Lat. 42.130250) 10 .	LOTIG. 10.304-0		Not Ma		
Soil Map Unit Name		" " " to residual for	all the of	0.1/		/lf me	NWI classification:		іррец	
Are climatic / hydrole	_		-				o, explain in Remark			
				gnificantly disturbed		re "Normal Circu	mstances" present?	Υe	es X No	·——
Are Vegetation	, Soil	, or Hydrology	na	turally problematic?	? (If	f needed, explain	any answers in Rei	marks.)		
SUMMA	ARY OF FINDI	NGS – Attach	ո site map	showing sam	npling point	locations, tr	ransects, impo	rtant fe	atures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	X No	ا ک	Is the Sample	ed Area				
Hydric Soil Preser		Yes	X No)	within a Wetl		Yes X	No _		
Wetland Hydrolog	y Present?	Yes	X No	,	If yes, optiona	al Wetland Site ID): <u>FC</u>			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:						Secondary Indicator	rs (minimu	um of two require	ed)
		is required; check	< all that apply	v)			Surface Soil Cracl			<u>ou, </u>
Surface Water		10 1242,		er-Stained Leaves (F	B9)	x	_			
X High Water T			_	atic Fauna (B13)						
X Saturation (A	\3)			Marl Deposits (B15)			Dry-Season Water Table (C2)			
Water Marks	; (B1)			Hydrogen Sulfide Odor (C1)			Crayfish Burrows (C8)			
Sediment De				ized Rhizospheres	(C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits	•			ence of Reduced Iro	` '		Stunted or Stresse		(D1)	
Algal Mat or I	* *			ent Iron Reduction in Muck Surface (C7)	•	(6) <u>X</u>	Geomorphic Posit Shallow Aquitard			
l —	ร (ธอ) ′isible on Aerial Im	agery (B7)	_	r (Explain in Remar			Microtopographic		1)	
_	getated Concave S			(LAPIGITI III TOTTIGE	iksj		FAC-Neutral Test		')	
Field Observation					T		,			
Surface Water Pre		Yes No	X Dep	th (inches):						
Water Table Prese	ent?	Yes X No	Dep	th (inches): 14		Wetland Hyd	rology Present?	Yes _	X No	
Saturation Presen		Yes X No	Dep	th (inches): 10						
(includes capillary		manitoring u	···· u serial phe	-t-s provious inone	tions) if availe	-L1a.				
Describe Recorde	d Data (stream ya	luge, monitoring w	/ell, aeriai pric	otos, previous inspe	actions), ii avalla	able:				
Remarks: Wetland hydrolo	ogy present at th	e Data Point.								

SOIL Sampling Point: DP-FC 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 3/1 100 Clay 0-6 10YR 4/1 10YR 5/6 6-13 80 10YR 5/6 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.



PSS Wetland FC- View facing North.



PSS Wetland FC- Soils

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/County	y: Greene		Sampling Date:	June 8, 2022	
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-FC-Upland	
Investigator(s):	Tristen Peterson	1		Section, Tov	wnship, Range:	Catskill	'		
Landform (hillslope,		Hillslope			(concave, conve			Slope (%): 3	
, ,								Datum: NAD83	
Subregion (LRR or	-	LRR R		at: 42.190210°ľ	IN LO	ng: 73.904585°W			
Soil Map Unit Name	e: - Udorthents	s, loamy-Urban land	complex			NWI cla	ssification: Not N	Mapped	
Are climatic / hydro	logic conditions or	the site typical for	this time of year?	Yes	<u>X</u> No	(If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significa	antly disturbed?	Are	"Normal Circumstances	" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	naturally	y problematic?	(If n	eeded, explain any ansv	wers in Remarks.)		
SUMMA	ARY OF FIND	NGS – Attach	site map sho	owing samp	oling point le	ocations, transect	s, important f	eatures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sampled	Area			
Hydric Soil Prese		Yes	No		within a Wetlar		No	X	
Wetland Hydrolog		Yes	No No		If yes, optional V	Wetland Site ID:			
-		lures here or in a se			, 00, 0, 1, 10, 10, 1				
HYDROLOGY									
Wetland Hydrolo	ogy Indicators:					Seconda	ry Indicators (minin	num of two required)	
Primary Indicators	s (minimum of one	is required; check	all that apply)			Surface	e Soil Cracks (B6)		
Surface Wat	ter (A1)		Water-Stai	ined Leaves (B	9)	Drainag	ge Patterns (B10)		
High Water	Table (A2)		Aquatic Fa	auna (B13)	na (B13) Moss Trim Lines (B16)				
Saturation (A	A3)		Marl Depos	sits (B15)		ason Water Table ((C2)		
Water Marks	rs (B1) Hydrogen Sul			Sulfide Odor (C	ulfide Odor (C1) Crayfish Burrows (C8)				
Sediment De				Rhizospheres or	izospheres on Living Roots (C3) Saturation Visible on Aerial In				
Drift Deposit			Presence	of Reduced Iron	Reduced Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or					Tilled Soils (C6)		rphic Position (D2)		
Iron Deposit	, ,			Surface (C7)			v Aquitard (D3)		
	/isible on Aerial Im		Other (Exp	olain in Remark	s)		pographic Relief (D	04)	
	getated Concave	Surface (B8)				FAC-No	eutral Test (D5)		
Field Observatio		Voc. No.	V Donth (in	ahaa):					
Surface Water Pro		Yes No Yes No				Watland Undralami D	wasant? Van	No. Y	
Water Table Pres Saturation Preser		Yes No				Wetland Hydrology P	resent? res_	No <u>X</u>	
(includes capillary		1es No	Deptil (illi	ules).					
		auge, monitoring we	ell, aerial photos, p	previous inspec	ctions), if availab	le:			
Remarks: No wetland hvd	rology present a	at the Data Point.							
	.o.ogy p.oco o								

1. Rhus typhina 35 Yes UPL This 22.	
Total Cover Pre Pr	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A
Sping Spin	``
Per Pre	Total Number of Dominant Species Across All Strata: 3 (E
The Pre	Percent of Dominant Species
Pre	That Are OBL, FACW, or FAC: 0 (A
35	
Solidago canadensis	Prevalence Index worksheet: Total % Cover of: Multiply by:
FAI	OBL species 0 x 1 = 0
FAX	FACW species $0 x 2 = 0$
FACU	FAC species <u>0</u> x 3 = <u>0</u>
December Color C	FACU species 105 x 4 = 420
Hyrith Stratum (Plot size: 5 ft.)	UPL species 35 x 5 = 175
Hydroxide Hydr	Column Totals: <u>140</u> (A) <u>595</u>
Hydelight Hyde	Prevalence Index = B/A = 4.25
0	Hydrophytic Vegetation Indicators:
Solidago canadensis 20	1 - Rapid Test for Hydrophytic Vegetation
Solidago canadensis 20 No FACU	2 - Dominance Test is >50%
Solidago canadensis 20 No FACU	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
2. Ambrosia artemisiifolia	data in Remarks or on a separate sheet)
1 1 1 1 1 1 1 1 1 1	Problematic Hydrophytic Vegetation ¹ (Explain)
be Def Tre at the Sa. Sag and	¹ Indicators of hydric soil and wetland hydrology must
Def Tre at b	be present, unless disturbed or problematic.
Tre at the state of the state o	Definitions of Vegetation Strata:
at b Sal and 0. Her size Wo hei 1. 2. 105 = Total Cover Hyve Veg Pre	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
Sal and	at breast height (DBH), regardless of height.
10	Sapling/shrub – Woody plants less than 3 in. DBH
He size Wo heist	and greater than or equal to 3.28 ft (1 m) tall.
1	Herb - All herbaceous (non-woody) plants, regardless of
105	size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30 ft.) Hydrogen Stratum (Plot size: 30 ft.) Output Hydrogen Stratum (Plot size: 30 ft.)	Woody vines – All woody vines greater than 3.28 ft in height.
oody Vine Stratum (Plot size: 30 ft.) Hyve St. Pre	neight.
Hydrogen St. Pre	
Pre Pre	Hydrophytic
	Vegetation
	Present? Yes NoX
·	
0 = Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at the Data Point.	
No hydrophysic vegetation found at the Data Folint.	

SOIL Sampling Point: DP-FC-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 0-10 10YR 2/1 100 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) 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) 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 Hydric Soil Present? Yes No X Depth (inches): 10 Remarks: No hydric soils present at the Data Point. Dark soils due to area being along the railroad.



Upland FC- View facing North.



Upland FC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	ty: Green	e	Sampling Date	e: August 26, 2022
Applicant/Owner:	СНА			State:	NY		Sampling Poin	: DP-GR
Investigator(s):	Tristen Peterson			Section, To	wnship, Range	: Catskill		
Landform (hillslope,	-	Depression			(concave, con		Concave	Slope (%): 1
	•				•	•		Slope (%)
Subregion (LRR or I	-	LRR R		Lat: 42.188276°	°N I	Long: 73.90632		
Soil Map Unit Name		n and Vergennes s					_	ot Mapped
Are climatic / hydrol	•	• • • • • • • • • • • • • • • • • • • •	•			o (If no	, explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed?	? A	re "Normal Circu	nstances" present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?) (I	f needed, explain	any answers in Remark	s.)
SUMMA	ARY OF FIND	NGS – Attach	site map s	howing sam	pling point	locations, tr	ansects, importar	nt features, 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	X No		If yes, optiona	I Wetland Site ID	: <u>G</u> R	
PEM Wetland Io	ocated in a depr	ession adjacent t	to access roa	d.				
HYDROLOGY								
Wetland Hydrolo	gy Indicators:						Secondary Indicators (m	inimum of two required)
Primary Indicators	(minimum of one	is required; check	all that apply)				Surface Soil Cracks (B	6)
Surface Wate	er (A1)		Water-	Stained Leaves (E	39)	<u>X</u>	Drainage Patterns (B1	0)
High Water T	Γable (A2)			Fauna (B13)			Moss Trim Lines (B16)	
X Saturation (A	43)		Marl De	eposits (B15)			Dry-Season Water Tal	ole (C2)
Water Marks				en Sulfide Odor (0	•		Crayfish Burrows (C8)	
Sediment De			_	ed Rhizospheres o	=	(C3)	Saturation Visible on A	
Drift Deposits			_	ce of Reduced Iro	` '		Stunted or Stressed Pl	
Algal Mat or	, ,			Iron Reduction in	n Tilled Soils (C	6) <u>X</u>	•	D2)
Iron Deposits		o a a m / (D.7)		uck Surface (C7)	lea\		Shallow Aquitard (D3)	of (D4)
_	isible on Aerial Im getated Concave s		Other (Explain in Remark	KS)		Microtopographic Relief FAC-Neutral Test (D5)	
		Juliace (Bo)			[The reduction rest (Bo)	
Field Observation Surface Water Pre		Yes No	X Denth	(inches):				
Water Table Prese		Yes No				Wetland Hydi	ology Present? Ye	es X No
Saturation Presen		Yes X No				Wedana riya	ology i resent.	<u> </u>
(includes capillary		103 <u>X</u> NO	Борин	(mones). o				
		auge, monitoring w	ell, aerial photo	s, previous inspe	ctions), if availa	able:		
Remarks: Wetland hydrolo	nav present at th	ne Data Point						
vvetiana nyarote	gy present at ti	ic Data i dint.						

	Absolute % Cover		Indicator Status	Dominance Test	worksheet:			
1	,							
				Number of Domir That Are OBL, FA			3	(A)
2. 3.				Total Number of Species Across A			3	(B)
				Percent of Domir				(=)
5				That Are OBL, FA	ACW, or FAC:		100	(A/E
5				Prevalence Inde		M	ultiply by:	
		= Total Cover		OBL species	10			
- India a / Charles Charles (Diet circ. 45 ft.)				·	90			
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	25		75	
. Frangula alnus	15	Yes	FAC	FACU species			0	
					0			
·				UPL species	0		0	
				Column Totals:	125	(A)	265	(B
·				Prevalence	e Index = B/A = :	2.12		
i				Hydrophytic Ve	getation Indicat	ors:		
·				1 - Rapid Te	est for Hydrophy	tic Vege	tation	
				X 2 - Dominar				
_	15	= Total Cover		X 3 - Prevaler				
rb Stratum (Plot size: 5 ft.)				4 - Morpholo				ng
. Phragmites australis	90	Yes	FACW	data in F	Remarks or on a	separat	e sheet)	
. Lythrum salicaria	10	No	OBL	Problematic	Hydrophytic Ve	getation	¹ (Explain)	
3				¹ Indicators of hyd	dric soil and wetl	and hyd	rology must	
4				be present, unles	s disturbed or p	roblema	tic.	
5				Definitions of Ve	egetation Strata	a:		
3				Tree – Woody pla	ants 3 in. (7.6 cr	n) or mo	re in diamete	er
7				at breast height (DBH), regardles	s of hei	ght.	
3				Sapling/shrub – and greater than				
)				Herb – All herba	·	, ,		of
10				size, and woody				o OI
				Woody vines – A	All woody vines g	greater ti	nan 3.28 ft in	
12	100	= Total Cover		height.				
oody Vine Stratum (Plot size: 30 ft.)	100	= Total Cover						
. Vitis riparia	10	Yes	FAC					
				Hydrophytic				
2				Vegetation				
3				Present?	Yes _	<u> </u>	lo	
1								
	10	= Total Cove	r					
Remarks: (Include photo numbers here or on a separate sheet.)								
Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation found at the Data Point.								

SOIL Sampling Point: DP-GR Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² Remarks (inches) Texture 10YR 3/2 7.5YR 5/6 Clay Loam 0-9 7.5YR 5/6 10YR 4/2 80 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 GR- View facing North.



PEM Wetland GR- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

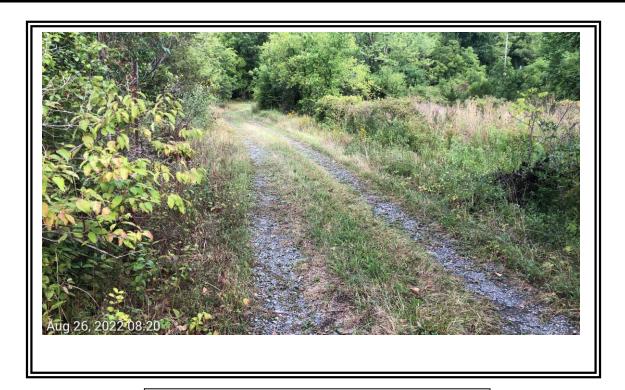
1 26, 2022	Sampling Date: August		: Greene	City/County			dson Express	Champlain Huds	Project/Site:
R-Upland	Sampling Point: DP-GR		NY	State:				CHA	Applicant/Owner:
		Catskill	nship, Range:	Section, Tow			on	Tristen Petersor	Investigator(s):
e (%): 1	Slope	none): Convex	concave, convex, no	Local relief (Terrace	e. terrace. etc.):	Landform (hillslope
n: NAD83		73.906431°W		_at: 42.188258°N			LRR R	·	Subregion (LRR or
			Long.			!!-			
		NWI class					son and Vergenne		Soil Map Unit Name
	n Remarks.)	(If no, explain in	X No	? Yes	ne of year	I for this	on the site typical	ologic conditions or	Are climatic / hydro
K No	present? Yes X	ormal Circumstances"	Are "Nor	cantly disturbed?	signific	gy	, or Hydrolog	, Soil	Are Vegetation _
	ers in Remarks.)	ded, explain any answe	(If neede	lly problematic?	natura	gy	, or Hydrolog	, Soil	Are Vegetation _
s, etc.	s, important features	ations, transects	ling point loca	nowing samp	map sh	ach sit	DINGS – Atta	IARY OF FIND	SUMMA
			s the Sampled Area	Х	No	26	Yes	netation Present?	Hydrophytic Vege
-	NoX		within a Wetland?		No _		Yes	_	Hydric Soil Prese
		land Site ID:	f yes, optional Wetla		No No		Yes		Wetland Hydrolog
				_			_		
									HYDROLOGY
o required)	/ Indicators (minimum of two	Secondary						logy Indicators:	Wetland Hydrolo
	Soil Cracks (B6)	Surface :			t apply)	eck all t	ne is required; che	ors (minimum of one	Primary Indicators
	e Patterns (B10)	Drainage)	ained Leaves (B9	Water-St	_		ater (A1)	Surface Wat
	m Lines (B16)	Moss Tri		auna (B13)	Aquatic F	_		r Table (A2)	High Water
	son Water Table (C2)	Dry-Seas		oosits (B15)	Marl Dep	_		(A3)	Saturation (A
	Burrows (C8)			n Sulfide Odor (C		_			Water Marks
y (C9)	on Visible on Aerial Imagery		Living Roots (C3)	· ·		_		Deposits (B2)	
	or Stressed Plants (D1)			e of Reduced Iron		_			Drift Deposit
	phic Position (D2)		Filled Soils (C6)	ron Reduction in 1		_			Algal Mat or
	Aquitard (D3)			ck Surface (C7)		_	(D-7)		Iron Deposit
	ographic Relief (D4)		3)	xplain in Remarks	Other (Ex	_	. , ,	Visible on Aerial Im	
	utral Test (D5)	FAC-Net					Surface (Bb)		
				I \.	D-nth /i	v	V N		Field Observatio
No. V	10 Van	-4-nd Undrology Dr	Wat						
No X	Sent? res	atland Hydrology Fre	VVCI						
				nches):	_ Debru (ii	No	Yes IN		
_	esent? Yes	FAC-Net	Wet	nches):	Depth (in	No <u>X</u>	Yes N Yes N Yes N	Present? esent? ent? ury fringe)	Field Observation Surface Water Pro Water Table Press Saturation Preser (includes capillar)

	Absolute		Indicator	Dominance Test worksheet:	
Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Number of Dominant Species	
				That Are OBL, FACW, or FAC	
				Total Number of Dominant	
				Species Across All Strata:	4(B
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC	: <u>50</u> (A
				Prevalence Index worksheet	t:
				Total % Cover of:	Multiply by:
	0	= Total Cover		OBL species 0	x 1 = 0
ng/Shrub Stratum (Plot size: 15 ft.)				·	x 2 = 0
Frangula alnus	15	Yes	FAC	FAC species 35	
				FACU species <u>65</u>	x 4 = <u>260</u>
				UPL species 0	x 5 = 0
				Column Totals: 100	(A) <u>365</u>
				Prevalence Index = B/A	x = 3.65
				Hydrophytic Vegetation Indi	icators:
				1 - Rapid Test for Hydror	
				X 2 - Dominance Test is >5	
	15	= Total Cover		3 - Prevalence Index is ≤	
Stratum (Plot size: 5 ft.)					ations ¹ (Provide supporting
Dactylis glomerata	25	Yes	FACU	data in Remarks or o	n a separate sheet)
Galium boreale	20	Yes	FAC	Problematic Hydrophytic	Vegetation ¹ (Explain)
Poa pratensis	40	Yes	FACU	¹ Indicators of hydric soil and v	vetland hydrology must
				be present, unless disturbed of	or problematic.
				Definitions of Vegetation St	rata:
				Tree – Woody plants 3 in. (7.6	6 cm) or more in diameter
				at breast height (DBH), regard	dless of height.
				Sapling/shrub – Woody plant	ts less than 3 in. DBH
				and greater than or equal to 3	
				Herb – All herbaceous (non-w	oody) plants, regardless of
				size, and woody plants less th	an 3.28 ft tall.
				Woody vines – All woody vine	es greater than 3.28 ft in
				height.	
L. V	85	= Total Cover			
dy Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic	
				Vegetation	
				Present? Yes	X No
		= Total Cove			
	U	- 10141 0016	T.	1	_

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

SOIL Sampling Point: DP-GR-

			led to document the in	Fast::::					
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type ¹	Loc ²	Texture	Rema	arks
									-
4	10YR 3/3	100					Silt		
								-	
								-	
		. ———							
Tuno: C-Con	poontration D-Donlation	- DM-Rodus	and Matrix MS_Mankad	Sand Crain	-		2L contion:	DI -Doro Lining M-Me	atrix
	ncentration, D=Depletion	, raivi=reduc	eu manix, mo=masked	Janu Gialn	13.			PL=Pore Lining, M=Ma	
Hydric Soil In Histosol (Polyvalue Below S	Surface (SR)	(LRR R			or Problematic Hydric uck (A10) (LRR K, L, I	
	ipedon (A2)		MLRA 149B)	Juliu06 (00)	(LIXIX IX,			Prairie Redox (A16) (LF	· ·
Black His			Thin Dark Surface	(S9) (LRR	R. MLRA 1	49B)		ucky Peat or Peat (S3)	
	n Sulfide (A4)		Loamy Mucky Min			,		urface (S7) (LRR K, L,	
	Layers (A5)		Loamy Gleyed Ma		, ,			ue Below Surface (S8)	•
Depleted	Below Dark Surface (A	11)	Depleted Matrix (F	- 3)			Thin Da	ark Surface (S9) (LRR	K, L)
Thick Da	rk Surface (A12)		Redox Dark Surfa	ce (F6)			Iron-Ma	inganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Depleted Dark Su	rface (F7)			Piedmo	nt Floodplain Soils (F1	9) (MLRA 149B)
Sandy GI	leyed Matrix (S4)		Redox Depression	ns (F8)			Mesic S	Spodic (TA6) (MLRA 14	44A, 145, 149B)
Sandy Re	edox (S5)						Red Pa	rent Material (F21)	
	Matrix (S6)							nallow Dark Surface (Th	- 12)
Dark Surf	face (S7) (LRR R, MLR)	A 149B)					Other (Explain in Remarks)	
		and wetland h	nydrology must be pres	ent, unless o	disturbed o	problemati	C.		
-	•								٧
Depth (inc	hes): 4						I Hydric Soil P	resent? Yes	No <u>X</u>
³ Indicators of I	•		nydrology must be pres	ent, unless o	disturbed o	r problemati	с.	Explain in Remarks)	No 2



Upland GR- View facing South.



Upland GR Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene)	Sampling [October 5, 2	2022
Applicant/Owner:	СНА			State:	NY		Sampling P	Point: DP-TB	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	: Catskill	 _		
Landform (hillslope,		Drainageway			f (concave, conv		Convex	Slope (%):	 : 1
Subregion (LRR or I	·	LRR R		Lat: 42.181009	•	ong: 73.908867		Datum: NA	
		LINIX IX		Lat. 42.101000	/ IN	Olig. 10.30000.			
Soil Map Unit Name				0.1/	V No	(16	NWI classification:	Not Mapped	
Are climatic / hydrol	· ·	• •	•				, explain in Remarks.		
				nificantly disturbed		e "Normal Circun	nstances" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	? (If	needed, explain	any answers in Rem	arks.)	
SUMMA	ARY OF FINDI	NGS – Attach	ı site map	showing sam	pling point	locations, tra	ansects, import	tant features, et	tc.
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	d Area			
Hydric Soil Presei		Yes	X No	-	within a Wetla		Yes X	No	
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional	Wetland Site ID:	: <u>TB</u>		
HYDROLOGY									
Wetland Hydrolo	nav Indicators:						Secondary Indicators	(minimum of two req	uired)
_	s (minimum of one	is required; check	all that apply	١		· · · · ·	Surface Soil Cracks		unouj
Surface Water	•	10 Toquite 2, 2		r-Stained Leaves (E	B9)				
X High Water 1				ic Fauna (B13)	-,	_	Moss Trim Lines (B		
X Saturation (A	43)		Marl D	Deposits (B15)			Dry-Season Water	Table (C2)	
Water Marks	s (B1)			ogen Sulfide Odor (_	Crayfish Burrows (C	•	
Sediment De				zed Rhizospheres	=	(C3)		n Aerial Imagery (C9))
Drift Deposits			_	nce of Reduced Iro	` '		Stunted or Stressed		
Algal Mat or	* *			nt Iron Reduction in	-	5) <u>X</u>	·	• •	
Iron Deposits Inundation V	ร (ธอ) ⁄isible on Aerial Ima	agery (B7)		Muck Surface (C7) (Explain in Remar			Shallow Aquitard (D Microtopographic R	•	
	getated Concave S			(LAPIGITITITITITITITITITITITITITITITITITITI	No,	_	FAC-Neutral Test (I		
Field Observatio		• •							
Surface Water Pre		Yes No	X Dept	h (inches):					
Water Table Pres		Yes X No				Wetland Hydr	ology Present?	Yes X No	o
Saturation Present		Yes X No	Depti	h (inches): 5					
(includes capillary Describe Recorde		uge monitoring w	uell aerial nhoʻ	tos, previous inspe	ections) if availa	hla.			
Describe Necorac	iu Dala (Silcum go	luge, mormoring	eli, aciiai piioi	105, previous mopo	30110113), 11 avana	DIE.			
Remarks:	ogy present at th	- Doto Point							
VVeliana nyaroto	My hiesein ar m	e Dala i Giik.							

Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test	t worksheet:	
70 0010.	Ороскост.	Giaido	Number of Domir		0 (4)
			That Are OBL, FA	ACW, or FAC:	(A)
			Species Across A	All Strata:	3(B)
					00.0
			That Are OBL, F	ACVV, OF FAC:	66.6 (A
			Prevalence Inde	ex worksheet:	
					Multiply by:
0 =	= Total Cover		OBL species	30	x 1 = <u>30</u>
			FACW species	20	x 2 = 40
70	Yes	FAC		80	x 3 = <u>240</u>
10	No	FACW		40	x 4 = 160
	No	FAC			x 5 = 50
			Column Totals:	180	(A) <u>520</u> (
			Prevalence	e Index = B/A =	2.88
	-			=	
90	= Total Cover				
40	Yes	FACU	data in F	Remarks or on a	i separate sneet)
30	Yes	OBL	Problematic	Hydrophytic Ve	egetation ¹ (Explain)
10	No	UPL	¹ Indicators of hyd	dric soil and wet	land hydrology must
10	No	FACW	be present, unles	ss disturbed or p	problematic.
			Definitions of Ve	egetation Strat	a:
				_	
				,	,
			Sanling/shrub –	Woody plants l	ess than 3 in DBH
			Herb – All herba	ceous (non-woo	odv) plants, regardless of
				·	- · · ·
			Woody vines – A	All woody vines	greater than 3.28 ft in
			height.		-
90	= Total Cover				
			Hydrophytic		
			Vegetation Present?	Yes _	X No
				165	
0	= Total Cover			165 _	
	70 10 10 10 90 40 30 10	10 No 10 No 10 No 10 No 90 = Total Cover 40 Yes 30 Yes 10 No 10 No	70 Yes FAC 10 No FACW 10 No FAC 90 = Total Cover 40 Yes FACU 30 Yes OBL 10 No UPL 10 No FACW	Species Across A Percent of Domir That Are OBL, F. Prevalence Inde Total % Cov OBL species FACW species FACW species FACU species FACU species UPL species UPL species Column Totals: Prevalence Hydrophytic Ve 1 - Rapid To X 2 - Dominar X 3 - Prevaler 4 - Morphol data in F Total No UPL 10 No FACW Definitions of W Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – A height.	FACW species 20 FAC species 80 FACU species 40 UPL species 10 Column Totals: 180 Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophytic Vegetation Endex is >5.09 X 3 - Prevalence Index is >5.09 X 3 - Prevalence Index is >3.0 4 - Morphological Adaptation data in Remarks or on a second of the present, unless disturbed or present, unless disturbed or present than or equal to 3.28 Herb - All herbaceous (non-wood size, and woody plants less than woody vines - All woody vines height.

SOIL Sampling Point: DP-TB 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 10YR 5/6 Clay 0-8 10YR 5/6 10YR 4/1 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 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: Bedrock Depth (inches): 13 Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PSS Wetland TB- View facing North.



PSS Wetland TB- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	ty: Greene		Sampling Date:	October 5, 2022
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-TB-Upland
Investigator(s):	Tristen Petersor	n		Section, To	ownship, Range:	Catskill		
Landform (hillslope	terrace, etc.):	Hillslope		Local relief	(concave, conve	ex, none): Convex		Slope (%): 3
Subregion (LRR or	•	LRR R		Lat: 42.180752°	·	ong: 73.909148°W		Datum: NAD83
- '	-	LIXIX IX		Lat. 42.100702	IN LO		-ifition: Not I	
Soil Map Unit Name								Mapped
•	•	n the site typical for	•				n in Remarks.)	
Are Vegetation _	, Soil	, or Hydrology	signifi	cantly disturbed?	? Are	e "Normal Circumstance	s" present?	Yes X No
Are Vegetation _	, Soil	, or Hydrology	natura	ally problematic?	(If n	needed, explain any ans	wers in Remarks.)	
SUMM	ARY OF FIND	INGS – Attach	site map sl	howing sam	pling point l	ocations, transec	ts, important	features, etc.
Hydrophytic Vege	etation Present?	Yes	No	X	Is the Sampled	d Area		
Hydric Soil Prese		Yes	No	X	within a Wetlan		No	X
Wetland Hydrolog		Yes _	No	Х	If yes, optional	Wetland Site ID:		
HYDROLOGY								
Wetland Hydrold								num of two required)
· · · · · · · · · · · · · · · · · · ·		e is required; check					ce Soil Cracks (B6)	
Surface Wat				Stained Leaves (E	39)		age Patterns (B10)	
High Water				Fauna (B13)			Trim Lines (B16)	(==)
Saturation (A	•			posits (B15)	(04)		eason Water Table	(C2)
Water Marks	eposits (B2)		_	en Sulfide Odor (0 d Rhizospheres o	on Living Roots (sh Burrows (C8) ation Visible on Aeria	al Imagani (CQ)
Drift Deposit	. , ,			ce of Reduced Iro		· —	ation visible on Aeria ed or Stressed Plant	• · · ·
Algal Mat or	, ,				n Tilled Soils (C6)		orphic Position (D2)	
Iron Deposit	` ,			ick Surface (C7)	111100 00 (,	<u> </u>	w Aquitard (D3)	,
l 	Visible on Aerial In	nagery (B7)	<u> </u>	Explain in Remark	ks)		opographic Relief (I	D4)
	egetated Concave	. ,			,		Neutral Test (D5)	,
Field Observation								
Surface Water Pr	resent?	Yes No	X Depth ((inches):				
Water Table Pres	sent?	Yes No	X Depth ((inches):		Wetland Hydrology F	resent? Yes	No <u>X</u>
Saturation Preser (includes capillary		Yes No	X Depth ((inches):				
		gauge, monitoring w	ell, aerial photos	s, previous inspe	ctions), if availab	ole:		
Description								
Remarks: No wetland hyd	drology present a	at the Data Point.						
•	37 .							

e Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(()				Number of Dominant Species That Are OBL, FACW, or FAC:	<u> </u>
				Total Number of Dominant Species Across All Strata:	3(E
				Percent of Dominant Species That Are OBL, FACW, or FAC:	(<i>J</i>
				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
ling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
				FAC species 10	
				FACU species 35	x 4 = 140
				UPL species 55	x 5 = <u>275</u>
				Column Totals: 100	(A) <u>445</u>
				Prevalence Index = B/A	= 4.45
				Hydrophytic Vegetation Indic	ators:
				1 - Rapid Test for Hydroph	
				2 - Dominance Test is >50	
	0	= Total Cover		3 - Prevalence Index is ≤3	
o Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat data in Remarks or on	
Centaurea stoebe	30	Yes	UPL	data iii Nomanis or on	a soparate sheet)
Leucanthemum vulgare	25	Yes	UPL	Problematic Hydrophytic \	/egetation ¹ (Explain)
Plantago lanceolata	20	Yes	FACU	¹ Indicators of hydric soil and we	
Achillea millefolium	15	No	FACU	be present, unless disturbed or	•
Cornus racemosa	10	No	FAC	Definitions of Vegetation Stra	
				Tree – Woody plants 3 in. (7.6 at breast height (DBH), regardle	•
					-
				Sapling/shrub – Woody plants and greater than or equal to 3.2	
				Herb – All herbaceous (non-wo	
				size, and woody plants less tha	n 3.28 ft tall.
				Woody vines – All woody vines height.	s greater than 3.28 ft in
		= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic Vegetation	
				=	NoX
	0	= Total Cove	er		
Remarks: (Include photo numbers here or on a se				•	

			and grouter than or equal to elect (1 m) tam
0.	-		Herb – All herbaceous (non-woody) plants, regardless of
4			size, and woody plants less than 3.28 ft tall.
2.			Woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total Cover	
oody Vine Stratum (Plot size: 30 ft.)		_	
			_
			Hydrophytic Vegetation
·			Present? Yes NoX
·			_
	0	= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)			
No hydrophytic vegetation found at the Data Point.			
Army Corps of Engineers			N. H I.
, ,			Northcentral and Northeast Region – Version 2.0

SOIL Sampling Point: DP-TB-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 0-20 10YR 5/4 100 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) 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) 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: None Hydric Soil Present? Yes Depth (inches): No X Remarks: No hydric soils present at the Data Point.



Upland TB- View facing North.



Upland TB Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene		Sampling [Date: June 7, 2022
Applicant/Owner:	СНА			State:	NY		Sampling P	Point: DP-GC-PSS
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	Catskill		
	-						Concave	Slone (%): 1
Landform (hillslope,		Depression			f (concave, conve	•		Slope (%): 1
Subregion (LRR or I		LRR R		Lat: 42.180717	°N Lo	ong: 73.909601	ı°W	Datum: NAD83
Soil Map Unit Name	: - Klingsbury	and Rhinebeck so	ils, 3 to 8 perce	ent slopes			NWI classification:	Not Mapped
Are climatic / hydrol	ogic conditions or	the site typical for	r this time of ye	ear? Yes	X No	(If no	, explain in Remarks.	i.)
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	? Are	e "Normal Circun	mstances" present?	Yes X No
		, or Hydrology				needed, explain	any answers in Rem	narks.)
SUMMA	ARY OF FIND	NGS – Attach	site map	showing sam	pling point le	ocations, tra	ansects, impor	tant features, etc.
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampled	l Area		
Hydric Soil Preser		Yes	X No		within a Wetlar		Yes X	No
Wetland Hydrolog		Yes _	No No		If yes, optional \	Wetland Site ID:	: GC	
INDER OF OCA								
HYDROLOGY								
Wetland Hydrolo								s (minimum of two required)
		is required; check					Surface Soil Cracks	
Surface Wate				-Stained Leaves (E	B9)	<u>X</u>	,	
High Water T				ic Fauna (B13)		_	Moss Trim Lines (B	
Saturation (A	•		· 	Deposits (B15)	·= · ·	_	Dry-Season Water	
Water Marks				gen Sulfide Odor (Crayfish Burrows (C	•
Sediment De				ed Rhizospheres once of Reduced Iro		C3)		on Aerial Imagery (C9)
Drift Deposits Algal Mat or				nce or Reduced Iron It Iron Reduction ir	, ,	<u> </u>	Stunted or Stressed Geomorphic Position	
Iron Deposits	` '			luck Surface (C7)		, <u></u>	Shallow Aquitard (D	• •
l —	isible on Aerial Im	lagery (B7)	_	(Explain in Remar			Microtopographic R	·
	getated Concave			(=/	,	_	FAC-Neutral Test (I	
Field Observation								
Surface Water Pre	esent?	Yes No	X Depth	n (inches):				
Water Table Prese	ent?	Yes No	X Depth	n (inches):		Wetland Hydr	ology Present?	Yes NoX
Saturation Presen		Yes No	X Depth	n (inches):				
(includes capillary			all parial phot	tas provious inspe	sations) if availab	·la.		
Describe Recorde	d Data (Siream ya	auge, monitoring w	'ell, aenai prioi	0S, previous irispe	ections), ii avanau	oie:		
Remarks: Wetland hydrolo	ogy present at th	ne Data Point.						

10	Species? Yes	FACW FACW	Dominance Test Number of Domin That Are OBL, FA Total Number of I Species Across A	nant Species ACW, or FAC: Dominant		4	(A)
		FACW	That Are OBL, FA	ACW, or FAC: Dominant			(A)
			Total Number of I	Dominant		4	``
						4	
			Species Across F	All Stiata.		4	(D)
							(B)
			Percent of Domin				
			That Are OBL, FA	ACW, or FAC:		100	(A/I
			<u> </u>				
			Prevalence Inde		Mu	Itiply by:	
10 :	= Total Cover						
			·		•		
55	Yes	FAC	•		-		
			•				
					•		—
			Column Totals:	165	(A)	405	(E
			Prevalence	e Index = B/A = :	2 45		
			1 10 valorio	7 maox = 2,71 = 2			
			1	=			
			_			ation	
	T-4-1 O						
55	= Total Cover					de sunnorti	na
							ig
80	Yes	FACW					
			Problematic	Hydrophytic Ve	getation ¹	(Explain)	
			¹ Indicators of hyd	dric soil and wetl	and hydro	ology must	
			be present, unles	s disturbed or p	roblemati	c.	
			Definitions of V	agatation Strate			
				_			
			1	•	*		r
			at breast height (DBH), regardles	s of heigh	it.	
			Sapling/shrub –	Woody plants le	ess than 3	in. DBH	
			and greater than	or equal to 3.28	ft (1 m) ta	all.	
			Herb – All herbar	ceous (non-wood	dy) plants	, regardless	of
			size, and woody	plants less than	3.28 ft tal	l.	
			Woody vines – /	All woodv vines c	reater tha	an 3.28 ft in	
			height.	, , ,	,		
80	= Total Cover						
20	V	E40					
20	res	FAC	Hydrophytic				
			Vegetation				
					·		
	_	_					
20	- Total Cava						
20	= TOTAL COVE		<u> </u>				
	55	55 = Total Cover 80 Yes 80 = Total Cover 20 Yes	55	Total Cover Section Fac Fac	FACW species 90 FAC species 75 FACU species 0 UPL species 0 UPL species 0 Column Totals: 165 Prevalence Index = B/A = 1 Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation data in Remarks or on a Problematic Hydrophytic Ve 1 Indicators of hydric soil and weth be present, unless disturbed or p Definitions of Vegetation Strate Tree — Woody plants 3 in. (7.6 cr at breast height (DBH), regardles Sapling/shrub — Woody plants les and greater than or equal to 3.28 Herb — All herbaceous (non-woodsize, and woody plants less than Woody vines — All woody vines of height. Bo = Total Cover Hydrophytic Vegetation Present? Yes —	OBL species O	OBL species O

SOIL Sampling Point: DP-GC-PSS 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 7.5YR 5/6 Clay 0-8 7.5YR 5/6 10YR 4/1 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 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.



PSS Wetland GC- View facing North.



PSS Wetland GC-Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Green	ıe	Sampling Date:	August 22, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-GC-Upland		
Investigator(s):	Tristen Peterson	1		Section, To	e: Catskill					
	ndform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%):									
						·				
Subregion (LRR or I		LRR R		Lat: 42.167277	<u>°N</u>	Long: 73.916933°W		Datum: NAD83		
Soil Map Unit Name	: - Kingsbury	and Rhinebeck soil	s, 3 to 8 perce	nt slopes		NWI clas	ssification: Not N	Mapped		
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ar? Yes	X N	lo (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 ansv	vers in Remarks.)			
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	t locations, transect	s, important f	eatures, etc.		
Lividean by this Vogo	t-tion Drocont?	Voc	No	Y	la the Sampl	Aug.				
Hydrophytic Vege Hydric Soil Presei		_	No No	x	Is the Sample within a Wet		No _	X		
Wetland Hydrolog		_	No		If yes ontion:	al Wetland Site ID:				
		dures here or in a se			II yes, opnome	al Welland Site ib.				
HYDROLOGY Wetland Hydrolo	ay Indicators:					Seconda	ny Indicators (minir	num of two required)		
_		· · · · · · · · · · · · · · · · · · ·	"" '					num or two required)		
		e is required; check		2: 11 //			Soil Cracks (B6)			
Surface Water				Stained Leaves (E	39)		ge Patterns (B10)			
High Water 7				c Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A Water Marks	•			eposits (B15) gen Sulfide Odor ((C1)	Dry-Season Water Table (C2)				
Sediment De				ed Rhizospheres		Crayfish Burrows (C8) sts (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits				ice of Reduced Iro	_	Stunted or Stressed Plants (D1)				
Algal Mat or				t Iron Reduction in	, ,	<u>—</u>				
Iron Deposits	` '			uck Surface (C7)	•	Shallow Aquitard (D3)				
l —	isible on Aerial Im	nagery (B7)		Explain in Remar		Microtopographic Relief (D4)				
Sparsely Veg	getated Concave	Surface (B8)					eutral Test (D5)			
Field Observatio	ns:									
Surface Water Pre	esent?	Yes No	X Depth	(inches):						
Water Table Pres	ent?	Yes No	X Depth	(inches):		Wetland Hydrology Pr	resent? Yes	No <u>X</u>		
Saturation Presen		Yes No	X Depth	(inches):						
(includes capillary			"	· · · · · · · · · · · · · · · · · · ·	·· -\ ·· t eveil					
Describe Recorde	d Data (Stream ya	auge, monitoring w	ell, aeriai prioto	s, previous irispe	ections), ii avaii	able:				
Remarks:										
No wetland hydi	rology present a	at the Data Point.								

ee Stratum (Plot size: 30 ft.)	% Cover	Species?	Indicator Status	Dominance Test worksheet:
	⁷⁶ Cover	Species?	Status	Number of Dominant Species
Juglans nigra	25	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A
Rhus typhina	15	Yes	UPL	Total Number of Dominant
				Species Across All Strata: 5 (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 0 x 1 = 0
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0 \times 2 = 0$
				FAC species 0 x3 = 0
				FACU species 125 x 4 = 500
				UPL species 15 x 5 = 75
				Column Totals: 140 (A) 575 (
				Prevalence Index = B/A = 4.10
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
b Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Lolium perenne	60	Yes	FACU	
Trifolium repens	20	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Solidago canadensis	20	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
				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.
	100	= Total Cover		
ody Vine Stratum (Plot size: 30 ft.)				
				Hydrophytic
				Vegetation
				Present? Yes NoX
	0	= Total Cove	r	
		<u></u>		

SOIL Sampling Point: DP-GC-

Depth	Matrix		Redox	Features		e absence	-				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks		
3	10YR 4/3	100					Silt				
	-							-			
		. ——									
	_		_								
				010			2,	DI D 111	N.A. Andre		
/pe: C=Con	ncentration, D=Depletion	, RM=Reduc	ed Matrix, MS=Masked	Sand Grain	S.			PL=Pore Lining, M=			
dric Soil In			Debaratus Delevi (Curtosa (CO)	(LDD D			or Problematic Hyd			
Histosol (•	Polyvalue Below S	Surface (S6)	(LKK K,			uck (A10) (LRR K, L Prairio Podox (A16) (•		
	Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)						Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
_	n Sulfide (A4)	,	Loamy Mucky Min			402)	Dark Surface (S7) (LRR K, L, M)				
Stratified Layers (A5) Loamy Gleyed Matrix (F2)								ue Below Surface (S			
Depleted Below Dark Surface (A11) Depleted Matrix (F3)					Thin Da	rk Surface (S9) (LR	R K, L)				
Thick Dark Surface (A12) Redox Dark Surface (F6)					Iron-Ma	nganese Masses (F	12) (LRR K, L, R)				
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						Piedmo	nt Floodplain Soils (F19) (MLRA 149B)			
	leyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	edox (S5)							rent Material (F21)	(75.40)		
	Matrix (S6)	A 440D\						nallow Dark Surface ((TF12)		
_ Dark Sun	face (S7) (LRR R, MLR	A 149D)					Other (i	Explain in Remarks)			
	hd				l:-4ll -		_				
		and wetland r	iyarology must be pres	ent, uniess d	isturbed o	r problemati	c. T				
	• • •										
	•						Hydric Soil D	rosont? Vos	No. Y		
Deptil (Illici	1165). 3						Hydric 30ii F	resent: res	NO X		
Restrictive La Type: Com Depth (incl Remarks:	•	and wetland h	lydrology must be presi	ent, unless d	disturbed o	r problemati	c. Hydric Soil P	resent? Yes	No <u>X</u>		



Upland GC- View facing South.



Upland GC- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Applicant/Owner: CHA State: NY Sampling Point: DP-TC-PEM Investigator(s): Tristen Peterson Section, Township, Range: Catskill Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 Subregion (LRR or MLRA): LRR Lat: 42.179047*N Long: 73.910161*W Datum: NADB3 Soli Map Unit Name: NAU classification: Not Mapped 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 Indicators: Not Hydrology
Investigator(s): Tristen Peterson Section, Township, Range: Catskill
Landform (hillslope, terrace, etc.): Depression
Sulface (LRR or MLRA): LRR Lat: 42.179047*N Long: 73.910161*W Datum: NAD83 Soil Map Unit Name: -
Soil Map Unit Name:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes
Are Vegetation, Soil, or Hydrologysignificantly disturbed?
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) PEM Wetland located within a depression adjacent to the access road. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: TC Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16)
Hydric Soil Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland? Remarks: (Explain alternative procedures here or in a separate report.) PEM Wetland located within a depression adjacent to the access road. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Wetland Hydrology Indicators (minimum of two required) A quatic Fauna (B13) Within a Wetland? Yes X No If yes, optional Wetland? If yes, optional Wetland Site ID: TC **No **Indicators (minimum of two required) **Secondary Indicators (minimum of two required) **Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16)
Hydric Soil Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland? Remarks: (Explain alternative procedures here or in a separate report.) PEM Wetland located within a depression adjacent to the access road. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Wetland Hydrology Indicators (minimum of two required) A quatic Fauna (B13) Within a Wetland? Yes X No If yes, optional Wetland? If yes, optional Wetland Site ID: TC **No **Indicators (minimum of two required) **Secondary Indicators (minimum of two required) **Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16)
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: TC Remarks: (Explain alternative procedures here or in a separate report.) PEM Wetland located within a depression adjacent to the access road. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Moss Trim Lines (B16) If yes, optional Wetland Site ID: TC Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16)
Remarks: (Explain alternative procedures here or in a separate report.) PEM Wetland located within a depression adjacent to the access road. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) X Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Surface Soil Cracks (B6) Moss Trim Lines (B16)
Surface Water (A1) Water-Stained Leaves (B9) X Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) — Hydrogen Sulfide Odor (C1) — Crayfish Burrows (C8) Sodiment Deposits (P2) — Seturation Visible on Aerial Imagent (C0)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No _X _ Depth (inches):
Water Table Present? Yes No _X Depth (inches): Wetland Hydrology Present? YesX No
Saturation Present? Yes X No Depth (inches): 4
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Wetland hydrology present at the 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:	2 (A)
2.					(^/)
3.				Total Number of Dominant Species Across All Strata:	2 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)	<u>-</u>			FACW species 80	x 2 = 160
1					x 3 = <u>60</u>
2				· · · · · · · · · · · · · · · · · · ·	x 4 = 0
3				UPL species 0	x = 0
4.				Column Totals: 100	(A) <u>220</u> (B)
5.	_			Prevalence Index = B/A = 2	2.2
6.				Hydrophytic Vegetation Indicate	ors:
7.				1 - Rapid Test for Hydrophyt	
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)		= Total Cover		4 - Morphological Adaptation	
1. Phragmites australis	80	Yes	FACW	data in Remarks or on a	separate sheet)
2. Solidago rugosa	20	Yes	FAC	Problematic Hydrophytic Ve	getation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetla	and hydrology must
4.				be present, unless disturbed or pr	oblematic.
5.				Definitions of Vegetation Strata	:
6				Tree – Woody plants 3 in. (7.6 cm	n) or more in diameter
7				at breast height (DBH), regardless	s of height.
8.				Sapling/shrub – Woody plants le	
9				and greater than or equal to 3.28	ft (1 m) tall.
10				Herb – All herbaceous (non-wood	., .
11.				size, and woody plants less than	
12				Woody vines – All woody vines g height.	reater than 3.28 ft in
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	_				
1					
2				Hydrophytic Vegetation	
3					X No
4.					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet	.)				
Hydrophytic vegetation found at the Data Point.					

Sampling Point: DP-TC-PEM

SOIL Sampling Point: DP-TC-PEM 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 4/1 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) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) 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 TC- View facing North.



PEM Wetland TC- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	October 5, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-TC-Upland		
Investigator(s):	Tristen Peterson			Section, To	e: Catskill					
	nillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slop							Slope (%):1		
	•	•			,			Slope (%)1		
Subregion (LRR or		LRR R		Lat: 42.179391	°N	Long: 73.910044°W				
Soil Map Unit Name	e: <u>-</u>							Mapped		
Are climatic / hydrol	ogic conditions on	the site typical for	r this time of ye	ar? Yes	<u>X</u> N	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?	? (1	If needed, explain any answ	vers in Remarks.)			
SUMMA	ARY OF FINDI	NGS – Attach	າ site map ເ	showing sam	pling point	t locations, transect	s, important f	eatures, etc.		
Hydrophytic Vege	station Present?	Yes	No	Х	Is the Sampl	ad Araa				
Hydric Soil Prese		-	No		within a Wet		No	X		
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:				
HYDROLOGY										
	Indicatore					Sacanda	Indicatore (minir	over of two required)		
Wetland Hydrolo		· · · · · · · · · · · · · · · · · · ·	" "					num of two required)		
		is required; check		21=!===d covee (1	20/		Soil Cracks (B6)			
Surface Water T				Stained Leaves (E c Fauna (B13)	В9)		ge Patterns (B10)			
Saturation (A				eposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks	-			gen Sulfide Odor ((C1)	Crayfish Burrows (C8)				
Sediment De			_	ed Rhizospheres						
Drift Deposit	. , ,			ice of Reduced Iro	_	Stunted or Stressed Plants (D1)				
Algal Mat or				t Iron Reduction ir		<u> </u>				
Iron Deposits	s (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)				
	isible on Aerial Im	. , ,	Other (Explain in Remar	rks)	Microtopographic Relief (D4)				
Sparsely Ve	getated Concave S	Surface (B8)				FAC-Ne	eutral Test (D5)			
Field Observatio	ns:									
Surface Water Pre		Yes No								
Water Table Pres		Yes No	·			Wetland Hydrology Pr	resent? Yes	No <u>X</u>		
Saturation Preser		Yes No	X Depth	(inches):						
(includes capillary Describe Records		auge, monitoring w	uell aerial nhoto	ne previous inspe	ections) if avail	ahla.				
Describe Records	u Dala (Silvaiii go	luge, monitoring	ieli, atmai prioc	75, pievious mope	tuuris), n avan	able.				
Remarks: No wetland hydi	rology present a	t the Data Point	:							

ee Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A
				Total Number of Dominant	
				Species Across All Strata: Percent of Dominant Species	2(B
				That Are OBL, FACW, or FAC:	0(A
				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
- bling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
				· ·	x 3 = 0
					x 4 = <u>280</u>
				UPL species 10 Column Totals: 80	-
				Prevalence Index = B/A = 4	1.12
				Hydrophytic Vegetation Indicat	
				1 - Rapid Test for Hydrophyt	ic Vegetation
				2 - Dominance Test is >50%	
_	0	= Total Cover		3 - Prevalence Index is ≤3.0	1
Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	ns ¹ (Provide supporting
Lolium perenne	70	Yes	FACU	data in Remarks or on a	separate sheet)
Dipsacus fullonum	20	Yes	FAC	Problematic Hydrophytic Veg	getation ¹ (Explain)
Asclepias syriaca		,	UPL	¹ Indicators of hydric soil and wetlabe present, unless disturbed or pr	
				Definitions of Vegetation Strata	
				Tree – Woody plants 3 in. (7.6 cm	
				at breast height (DBH), regardless	s of height.
				Sapling/shrub – Woody plants le and greater than or equal to 3.28	
)				Herb – All herbaceous (non-wood size, and woody plants less than	,,,
ı				Woody vines – All woody vines g	
2	100	= Total Cover		height.	
eody Vine Stratum (Plot size: 30 ft.)	100				
				l	
				Hydrophytic Vegetation	
				_	No <u>X</u>
·		-			
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.) No hydrophytic vegetation found at the Data Point.					

SOIL Sampling Point: DP-TC-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 0-20 10YR 3/3 100 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) 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) 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: None Hydric Soil Present? Yes Depth (inches): No X Remarks: No hydric soils present at the Data Point.



Upland TC- View facing East.



Upland TC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene		Sar	mpling Date:	October 5, 2022	
Applicant/Owner:	CHA			State:	NY		Sar	mpling Point:	DP-TC-PFO	
Investigator(s):	Tristen Peterson		Section, To	ownship, Range:	Catskill					
									Slope (%): 1	
Subregion (LRR or I		LRR R		Lat: 42.176841	,	g: 73.911050			Datum: NAD83	
		LNN N		Lat. 72.1700-11	IN Long	g. 10.911000				
Soil Map Unit Name					V N-	///	NWI classific		Mapped	
Are climatic / hydrol	ū	• •	•			(If no,				
	, Soil					'Normal Circun	nstances" pre	sent?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If nee	eded, explain	any answers	in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point lo	cations, tra	ansects, i	mportant	features, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampled A	Area				
Hydric Soil Presei		Yes	X No		within a Wetland		Yes	X No		
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional We	etland Site ID:	: <u>TC</u>		_	
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:						Secondary Inc	dicators (minir	mum of two required)	
_	s (minimum of one	is required: check	(all that apply)	•				l Cracks (B6)	num of two required;	
Surface Water	•			-Stained Leaves (E	B9)	X Drainage Patterns (B10)				
X High Water 1				ic Fauna (B13)	,	Moss Trim Lines (B16)				
X Saturation (A	43)		Marl D	Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks	s (B1)			gen Sulfide Odor (_	Crayfish Bu			
Sediment De				·-	on Living Roots (C3	_ · · · _				
Drift Deposits				nce of Reduced Iro		Stunted or Stressed Plants (D1)				
Algal Mat or	, ,			nt Iron Reduction ir Muck Surface (C7)		(C6) X Geomorphic Position (D2) Shallow Aquitard (D3)				
Iron Deposits Inundation V	s (B5) /isible on Aerial Im	agery (B7)	_	(Explain in Remar		Microtopographic Relief (D4)				
	getated Concave S		0	(Explain in	ino _j	_	FAC-Neutra		D+)	
Field Observatio		• •								
Surface Water Pre		Yes No	X Depth	n (inches):						
Water Table Pres		Yes X No			V	Wetland Hydr	ology Prese	nt? Yes	X No	
Saturation Present		Yes X No	Depth	ı (inches): 1						
(includes capillary		auge monitoring w	oll perial phot	toe previous inspe	ections), if available	·-				
Describe Necordo	10 Dala (Sileain go	luge, monitoring w	eli, atriai prior	.05, previous mapo	ECLIUIIS), II avallabio):				
Remarks:	ogy present at th	o Data Point								
VVGIIAITA TIYATO.	Jgy prosont at an	E Data i Girit.								

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
Ulmus americana			FACW	That Are OBL, FACW, or FAC: 7 (A)
3.				Total Number of Dominant Species Across All Strata: 7 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
6.				
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
··-		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 115 x 2 = 230
Fraxinus pennsylvanica	15	Yes	FACW	FAC species <u>125</u> x 3 = <u>375</u>
2. Frangula alnus	60	Yes	FAC	FACU species <u>0</u> x 4 = <u>0</u>
3.				UPL species 0 x 5 = 0
4				Column Totals: <u>240</u> (A) <u>605</u> (B)
5.	-			Prevalence Index = B/A = 2.52
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		T		X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	75	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Cornus racemosa	- 25	Yes	FAC	data in Remarks or on a separate sheet)
Solidago rugosa	40	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Symphyotrichum novae-angliae			FACW	¹ Indicators of hydric soil and wetland hydrology must
Lysimachia nummularia	30		FACW	be present, unless disturbed or problematic.
5.		163	TAOV	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
9.				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	105	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.	•			
2.				Hydrophytic
2				Vegetation
4				Tes No
4-		= Total Cove	-	
Remarks: (Include photo numbers here or on a separate sheet	0	= Total Cove	<u> </u>	
Hydrophytic vegetation found at the Data Point.	.)			

Sampling Point: DP-TC-PFO

SOIL Sampling Point: DP-TC-PFO 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 0-13 10YR 3/1 7.5YR 4/6 Clay 10YR 4/1 7.5YR 4/7 60 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 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.



PFO Wetland TC- View facing North.



PFO Wetland TC- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Andform (hillslope, terrace, etc.): Terrace	Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	ne	Sampling Date:	October 5, 2022		
Andorm fililistope, terrace, etc.):	Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-TC-Upland		
Local relief (concave, convex, none):	Investigator(s):	-			Section, To	ownship, Range	e: Catskill	_			
Solf Mep Link Name: Link R Lat. 42.176850*N Long: 73.911041*W Dalum: NADB3 Solf Mep Link Name: Not Mapped Ver definatio / hydrologic conditions on the site typical for this time of year? Yes X No (If no. explain in Remarks.) Ver Vegetation Soli or Hydrology asignificantly disturbed? An arc Normal Circumstances present? Yes X No No Vegetation in Remarks. Soli or Hydrology Insturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: **POROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Surface Water (B4) Aquatic Fauna (B13) Depoists (B2) Presence or Living Roots (C3) Sutration Visible on Aerial Imagery (C9) Drift (Depoists (B2)) Presence or Reculture in Remarks. **Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Water Albie (Coto) Present? Yes No X Depth (inches): Wate									Slone (%): 1		
Note Name Note		·	•			·	-				
Ave Climatic / hydrologic conditions on the site typical for this time of year? Yes		-	LKK K		Lat: 42.1/6950	l°N	<u> </u>				
Are "Normal Circumstances" present? Yes X No No Normal Circumstances" present? Yes X No Normal Circumstances" present? Yes X No Normal Circumstances" present? Yes X No Normal Circumstances" (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Is yes, optional Wetland Site ID: **PUROLOGY** Wetland Hydrology Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Wetland TC located in an open meadow field. **PUROLOGY** Wetland Hydrology Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Weter-Stained Leaves (B9) Dranage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Most Poposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Otor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Ovided Rhizospheres on Living Roots (C3) Saturation (Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Sunted of Stressed Plants (D1) Appl Mater Crus (E4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Feld Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Soil Map Unit Name): <u>-</u>					NWI cla	ssification: Not N	/lapped		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are climatic / hydrol	ogic conditions on	the site typical for	r this time of ye	ar? Yes	X N	lo (If no, explain	in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Westand? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Indicators here or in a separate report.) Upland Data Point for PFO Wetland TC located in an open meadow field. ### Wetland Hydrology Indicators (minimum of two required) Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13) Moss Tim Lines (B16) Surface Water (A1) Aquatic Fauna (B13) Moss Tim Lines (B16) Saturation (A3) Man Deposits (B15) Dry-Season Water Table (C2) Wetland Hydrology Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Sturted or Strategic Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B3) Presence of Reduced Iron (C4) Shurled or Stressed Plants (D1) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):	Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	l? A	Are "Normal Circumstances	s" present?	Yes X No		
Hydrophytic Vegetation Present? Yes No X within a Wetland? Wetland Hydrology Present? Yes No X It see the Sampled Area within a Wetland? Wetland Hydrology Present? Yes No X It yes, optional Wetland Site ID: **Presentarias**: (Explain alternative procedures here or in a separate report.) Upland Data Point for PFO Wetland TC located in an open meadow field. **Primary Indicators** **Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (Bis) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquetic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Man Tepoposits (B15) Drys-Sean Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B3) Presence of Reduced Iron (C4) Sutured or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B3) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If needed, explain any ans	wers in Remarks.)			
Hydric Soil Present? Yes No X If yes, optional Wetland? Yes No X Within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Present Company Indicators (minimum of two required)	SUMMA	ARY OF FINDI	NGS – Attach	n site map s	showing sam	npling point	t locations, transec	ts, important	features, etc.		
Hydric Soil Present? Yes No X If yes, optional Wetland? Yes No X Within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Present Straptan alternative procedures here or in a separate report.)	Hvdrophytic Vege	etation Present?	Yes	No	Х	Is the Sampl	ed Area				
Wetland Hydrology Present? Wetland Point for PFO Wetland TC located in an open meadow field. ### Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)			-					No _	<u> </u>		
HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aguatic Fauna (B13) Mari Deposits (B15) Saturation (A3) Mari Deposits (B15) Primary Indicators (minimum of two required) Moss Trim Lines (B16) Saturation (A3) Mari Deposits (B15) Pry-Season Water Table (C2) Saturation Deposits (B2) Soildard Rhizospheres on Living Roots (C3) Saturation Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inch	-		-			If yes, optiona	al Wetland Site ID:				
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Ino Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Remarks:	HYDROLOGY										
Surface Water (A1)	Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minir	num of two required)		
Surface Water (A1)	Primary Indicators	s (minimum of one	is required; check	(all that apply)			Surface	Soil Cracks (B6)			
High Water Table (A2) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) 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): Wetland Hydrology Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		•			Stained Leaves (I	B9)	· · · · · · · · · · · · · · · · · · ·				
Water Marks (B1)					•	•					
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Remarks:	Saturation (A	43)		Marl De	eposits (B15)		Dry-Season Water Table (C2)				
Drift Deposits (B3)	Water Marks	s (B1)		Hydrog	gen Sulfide Odor ((C1)	Crayfish Burrows (C8)				
Algal Mat or Crust (B4)	Sediment De	posits (B2)		Oxidize	ed Rhizospheres	on Living Roots	ots (C3) Saturation Visible on Aerial Imagery (C9)				
Iron Deposits (B5)						<u>—</u>					
Inundation Visible on Aerial Imagery (B7)	I —	, ,									
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			(DZ)						-		
Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			. , ,	Other (Explain in Remar	rks)					
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:											
Water Table Present? Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			Yes No	X Depth	(inches):						
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Water Table Pres						Wetland Hydrology P	resent? Yes	NoX		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		nt?	·	·							
Remarks:											
	Describe Recorde	ed Data (stream ga	luge, monitoring w	ell, aerial photo	os, previous inspe	ections), if avail	able:				
No wetland hydrology present at the Data Point.	Remarks:										
	No wetland hydi	rology present a	t the Data Point	•••							

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

Herb Stratum (Plot size: 5 ft.)

1. Galium pilosum

2. Plantago pusilla

3. Centaurea stoebe

5. Solidago canadensis

4. Tridens flavus

7.

Tree Stratum (Plot size: 30 ft.)

0		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.)	0 = Total Cover	Hydrophytic Vegetation Present? Yes NoX
Remarks: (Include photo numbers here or on a separate No hydrophytic vegetation found at the Data Point No hydrophytic vegetation found at the Dat		

SOIL Sampling Point: DP-TC-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Remarks (inches) % Texture 0-20 10YR 3/3 100 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) 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) 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 Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils present at the Data Point.



Upland TC- View facing East.



Upland TC 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: HC-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: 42.17495	Long: -73.91288 Datum: NAD83
Soil Map Unit Name:	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation No, Soil N, or Hydrology N significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problema	atic? (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
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland HC	
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	<u> </u>
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):	8
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: HC-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 Yes **FACW** species 130 x 2 = 1. **FACW** 260 Cornus sericea 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 HC-2

	•	the de	•			tor or c	onfirm the absence of ind	licators.)
Depth	Matrix	0/		x Featu		Loc ²	Tautuma	Damanka
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	LOC	Texture	Remarks
0-16	10yr 4/1	70	10yr 5/6	30			Loamy/Clayey	Prominent
								_
								_
								-
¹ Type: C=C	oncentration, D=Deple	tion, RN	/I=Reduced Matrix, N	/IS=Mas	sked Sand	d Grains.	² Location: PL=Pe	ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ice (S8) (I	LRR R,		A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B	,				Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	-				Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					elow Surface (S8) (LRR K, L)
	d Layers (A5)	/A / 4\	Loamy Mucky			R K, L)		urface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed		(F2)			ese Masses (F12) (LRR K, L, R)
	ark Surface (A12) //ucky Mineral (S1)		X Depleted Matri		-6)			oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark					Material (F21)
	Redox (S5)		Redox Depress					Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	-	0)			in in Remarks)
	rface (S7)			, ,				,
	,							
³ Indicators o	f hydrophytic vegetation	on and w	vetland hydrology mu	ıst be p	resent, ur	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:			<u> </u>					



Wetland HC- View facing West



Wetland HC- Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE Phase 5	City/County: Catskill Sampling Date: 11/30/2021						
Applicant/Owner: CHA	State: NY Sampling Point: HC-6 Upland						
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:						
	relief (concave, convex, none): Slope %:						
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.17461	Long: -73.91333 Datum: NAD83						
Soil Map Unit Name:	NWI classification: Upland						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly distur							
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (I							
High Water Table (A2) Aquatic Fauna (B13) And Deposits (B45)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15) Water Marks (B1)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (Sediment Deposits (B2) Oxidized Rhizospheres							
Sediment Deposits (B2) Drift Deposits (B3) Sediment Deposits (B2) Presence of Reduced In							
1 	ction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark)							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations: Surface Water Present? Yes No X Depth (inches):							
' ' ' '							
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):							
(includes capillary fringe)	: Wetland Hydrology Present? Yes No _X						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:						
Describe Resorded Bata (stream gauge, monitoring well, derial photos, pre	Trodo mopositorio), il avallabio.						
Remarks:							

VEGETATION – Use scientific names of plants.

roo Stratum (Diet size: 20)	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30) . Fagus gandolfia	% Cover 20	Species? Yes	Status FACU	Dominance Test worksneet:
				Number of Dominant Species
	20	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
·				Percent of Dominant Species
· <u>-</u>				That Are OBL, FACW, or FAC: 0.0% (A/E
·				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)			OBL species0 x 1 =0
Rhus typhina	30	Yes	UPL	FACW species 0 x 2 = 0
Rosa multiflora	20	Yes	FACU	FAC species 0 x 3 = 0
				FACU species 110 x 4 = 440
				UPL species 30 x 5 = 150
				Column Totals: 140 (A) 590 (E
				Prevalence Index = B/A = 4.21
				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
out Otractions (Distraction		- Total Cover		
erb Stratum (Plot size: 5)				2 - Dominance Test is >50%
Galium spp.	50	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporti data in Remarks or on a separate sheet)
·				
· <u> </u>				Problematic Hydrophytic Vegetation ¹ (Explain)
· <u></u>				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of heigh
)				Sapling/shrub – Woody plants less than 3 in. DBH
I.				and greater than or equal to 3.28 ft (1 m) tall.
2.				
	50	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size: 30)	•		
	,			Woody vines – All woody vines greater than 3.28 ft height.
-				neight.
				Hydrophytic
				Vegetation
		=Total Cover		Present? Yes No X

SOIL Sampling Point HC-6 Upland

		the dept				itor or co	onfirm the absence of indica	ators.)
Depth (inches)	Matrix	%		x Featur		Loc ²	Toyturo	Pomorko
(inches)	Color (moist)	9 6	Color (moist)	<u>%</u>	Type ¹	Loc	Texture	Remarks
0-16	10yr 4/2	100					Loamy/Clayey	
								-
					·			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for Prob	lematic Hydric Soils ³ :
Histosol (•	_	Polyvalue Belo		ce (S8) (I	LRR R,)) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	•				edox (A16) (LRR K, L, R)
Black His		_	Thin Dark Surf		-			at or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	_	High Chroma S					v Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky			R K, L)		ce (S9) (LRR K, L)
	Below Dark Surface	(A11) _	Loamy Gleyed		F2)			e Masses (F12) (LRR K, L, R)
	rk Surface (A12)	_	Depleted Matri					plain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)	_	Redox Dark Su		-			(A6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)	_	Depleted Dark				Red Parent Mat	
	edox (S5)	_	Redox Depress		8)			ark Surface (F22)
	Matrix (S6)	_	Marl (F10) (LR	RK,L)			Other (Explain i	n Remarks)
Dark Sur	lace (57)							
3Indicators of	hydrophytic vegetatic	on and wet	land hydrology mi	iet ha nr	esent ur	aleee diet	urbed or problematic.	
	ayer (if observed):	on and wet	adia nyarology me	aot be pi	Coont, ai	ilooo diot	arbod or problematio.	
Type:								
	oboo):						Hydric Soil Present?	Voc. No. V
	ches):						nyunc son Fresent?	Yes No_X_
Remarks:								



Upland HC- Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Greene		Sampling I	Date: Oc	tober 6, 202	.2
Applicant/Owner:	CHA			State:	NY		Sampling F	Point: DP	P-TF	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	Catskill		_		
Landform (hillslope,		Drainageway			f (concave, conv		Concave	SI	lope (%):	2
Subregion (LRR or		LRR R		Lat: 42.170568	,	ong: 73.91391;			atum: NAD8	
		LNN N		Lat. 72.170000) IV	Jily. 10.01001.				
Soil Map Unit Name		" " " to migal for	at the of u	0.1/	V No.	/lf no	NWI classification:		<u>:a</u>	
Are climatic / hydrol	_	• •	-				o, explain in Remarks		.	
				nificantly disturbed			mstances" present?	_	X No	
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	? (If	needed, explain	any answers in Rem	narks.)		
SUMMA	ARY OF FINDI	NGS – Attach	ı site map	showing sam	pling point	locations, tr	ansects, impor	tant featu	ıres, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	d Area				
Hydric Soil Prese		Yes _	X No	1	within a Wetla	nd?	Yes X	No	_	
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional	Wetland Site ID): <u>TF</u>			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:						Secondary Indicators	 (minimum o	f two require	ed)
1	s (minimum of one	is required; check	all that apply)			Surface Soil Cracks		<u> </u>	
Surface Wat	•	•		r-Stained Leaves (F	B9)	х	_'			
X High Water			_	tic Fauna (B13)	•	Moss Trim Lines (B16)				
X Saturation (A	43)		Marl [Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks				ogen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De				zed Rhizospheres	_					
Drift Deposit				ence of Reduced Iro	` '	v	Stunted or Stressed	, ,)	
Algal Mat or Iron Deposits	, ,			nt Iron Reduction ir Muck Surface (C7)	•	ed Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)				
	s (65) /isible on Aerial Im	agery (B7)		(Explain in Remar		Microtopographic Relief (D4)				
	getated Concave S			(Enplose	inc,	_	FAC-Neutral Test (
Field Observatio										
Surface Water Pre	esent?	Yes No	X Dept	h (inches):						
Water Table Pres		Yes X No	· 			Wetland Hyd	rology Present?	Yes X	No	
Saturation Preser		Yes X No	Dept	h (inches): 1						
(includes capillary Describe Recorde			ell aerial pho	tos, previous inspe	ections) if availal	hle.				
Dodding Rodding	za Bata (otroam ge	tage, monitoring w	on, donar prio	too, provious mope	ootionoj, ii avaliai	510.				
Remarks:	ogy present at th	ne Data Point								
volaria riyarore	by prosont at the	o Bata i Girit.								

SOIL Sampling Point: DP-TF 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 60 7.5YR 6/8 Clay 0-6 10YR 4/1 10YR 5/1 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 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: Bedrock Depth (inches): 12 Hydric Soil Present? Yes No Remarks: Hydric soils present at the Data Point.



PEM Wetland TF- View facing South.



PEM Wetland TF- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	October 6, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-TF-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill	_		
Landform (hillslope,	-	Hillslope			ef (concave, conv			Slope (%): 1	
	•				,			Datum: NAD83	
Subregion (LRR or I	-	LRR R		Lat: 42.170705	O'N I	Long: 73.914037°W			
Soil Map Unit Name								Mapped	
Are climatic / hydrol	-		-			o (If no, explain	in Remarks.)		
		, or Hydrology				re "Normal Circumstances	s" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	f needed, explain any ans	wers in Remarks.)		
SUMMA	ARY OF FIND	NGS – Attach	site map	showing sam	npling point	locations, transec	ts, important	features, etc.	
Hydrophytic Vege	atation Present?	Yes	No	Х	Is the Sample	od Area			
Hydric Soil Presei		-		X	within a Wetl		No _	X	
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:			
HYDROLOGY						-			
Wetland Hydrolo								num of two required)	
		is required; check					e Soil Cracks (B6)		
Surface Water				Stained Leaves ((B9)		ge Patterns (B10)		
High Water 1				c Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A	•			eposits (B15)	(04)	Dry-Season Water Table (C2)			
Water Marks				gen Sulfide Odor		Crayfish Burrows (C8) Saturation Visible on Agricul Imageny (C9)			
Sediment De Drift Deposits				ed Rhizospheres nce of Reduced In	_	sturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Algal Mat or				t Iron Reduction in	` '		rphic Position (D2)		
Iron Deposits	, ,			luck Surface (C7)	<u> </u>				
	isible on Aerial Im	agery (B7)		(Explain in Remai			pographic Relief (I	D4)	
	getated Concave	• • • •	_		,	FAC-Neutral Test (D5)			
Field Observatio					Ī				
Surface Water Pre	esent?	Yes No	X Depth	n (inches):	1				
Water Table Pres	ent?	Yes No	X Depth	n (inches):	1	Wetland Hydrology P	resent? Yes	No X	
Saturation Presen		Yes No	X Depth	n (inches):					
(includes capillary		!+	":-l mb at	·-!a lean	t' -\ 'f eveils				
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aeriai pnot	os, previous inspe	ections), it availa	able:			
Remarks:									
No wetland hydr	rology present a	it the Data Point							

ee Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
,			Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 0	(4)
				That Are OBL, FACW, or FAC: 0	_(A)
				Total Number of Dominant Species Across All Strata: 2	(B)
				Opecies Across Air Otrata.	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0	(A/E
					_`
			-	Prevalence Index worksheet:	
		Total Cover		Total % Cover of: Multiply by:	_
		= Total Cover		OBL species 0 x 1 = 0	
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0 $x = 0$ FAC species 0 $x = 0$	
				FACU species 60 x 4 = 240	
				UPL species 15 x 5 = 75	
				Column Totals: 75 (A) 315	
					_ `
				Prevalence Index = B/A = 4.2	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
b Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supportin	a
A 1				data in Remarks or on a separate sheet)	y
Ambrosia artemisiifolia		Yes	FACU	- Doubless stir Undersky tir Norsetstire 1 (Franksia)	
	15		UPL	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.	
0				Herb – All herbaceous (non-woody) plants, regardless	of
1.				size, and woody plants less than 3.28 ft tall.	
-				Woody vines – All woody vines greater than 3.28 ft in	
2		T		height.	
		= Total Cover			
oody Vine Stratum (Plot size: 30 ft.)					
				. Hudrophysia	
				Hydrophytic Vegetation	
				Present? Yes NoX	
	0	= Total Cove	er		
Remarks: (Include photo numbers here or on a sep		, 0010		•	
No hydrophytic vegetation found at the Data					
, , , ,					

US Army Corps of Engineers

SOIL Sampling Point: DP-TF-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 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) 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): 3 Hydric Soil Present? Yes Remarks: Could not dig past 3 inches due to compaction, no hydric soils present at the Data Point.

	No Photos		
	Upland TF-		
No Photos			
U	pland TF Soils		
	SITE PHOTOGRAPHS		
Segment 11 – Package 7A	Champlain Hudson Power Express		

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: IC-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: 42.1715	Long: -73.91401 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	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problema	atic? (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? Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Wetland IC	
HYDROLOGY	
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	• • • • • • • • • • • • • • • • • • • •
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) X Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>
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 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: IC-2 Absolute Indicator Dominant Tree Stratum (Plot size: 30 % Cover Species? Status **Dominance Test worksheet:** 1. Fraxinus americana 10 Yes FACU **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) Prevalence Index worksheet: 10 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = 0

1				FACW species	65	x 2 =	130	
2.				FAC species	0	x 3 =	0	
3.				FACU species	10	x 4 =	40	_
4.		_		UPL species	0	x 5 =	0	_
5.				Column Totals:	75	(A)	170	(B)
6.				Prevalence	e Index = I	B/A =	2.27	_
7.				Hydrophytic Veg	getation In	ndicators:		
		=Total Cover		1 - Rapid Tes	st for Hydro	ophytic Ve	getation	
Herb Stratum (Plot size: 5)				X 2 - Dominano	ce Test is >	>50%		
1. Onoclea sensibilis	30	Yes	FACW	X 3 - Prevalenc	e Index is	≤3.0 ¹		
2. Lythrum salicaria	25	Yes	FACW	4 - Morpholo				porting
3. Carex	10	No	FACW	data in Re	marks or o	n a separa	ate sheet)	
4.				Problematic I	Hydrophyti	c Vegetati	on ¹ (Explai	n)
5.				¹ Indicators of hyd	fric soil and	d wetland h	nydrology r	nust
6.		_		be present, unles				naot
7		_		Definitions of Ve	egetation	Strata:		
8.		_		Tree – Woody pla	ants 3 in <i>(</i>	7 6 cm) or	more in	
9.		_		diameter at breas				eight.
10.				Sapling/shrub –	· Woody nl:	ants less th	nan 3 in Di	ВН
11.				and greater than				J
12.				Herb – All herbad	ceous (non	-woody) n	lante rega	rdlace
	65	=Total Cover		of size, and wood				luicss
Woody Vine Stratum (Plot size:				Woody vines – A	All woody v	rines great	er than 3.2	8 ft in
2.								
3.				Hydrophytic Vegetation				
4.				Present?	Yes x	No		
		=Total Cover				_		
Remarks: (Include photo numbers here or on a separ	rate sheet	<u> </u>		1				
		•						

SOIL Sampling Point IC-2

		the dep				itor or co	onfirm the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture Remarks
					туре	LUC	
0-4	10yr 3/1	94	10yr 4/6	6			Loamy/Clayey Prominent
							
¹ Type: C=Co	ncentration, D=Deple	tion, RM	=Reduced Matrix, N	์ ศS=Mas	ked San	d Grains.	. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I			·				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	3)			Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9) (LRR R	MLRA 1	149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	611) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface		Loamy Gleyed		(F2)		Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	-	X Depleted Matri				Piedmont Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)		Redox Depres	-	8)		Very Shallow Dark Surface (F22)
	Matrix (S6)	-	Marl (F10) (LR	RK,L)			Other (Explain in Remarks)
Dark Sur	face (S7)						
3Indicators of	budranbutia va gatatia	on and we	stland by dralagy, m	uat ba ni	rocent	alaaa diat	turbed or problematic.
	ayer (if observed):	on and we	elianu nyurology m	ust be p	resent, ui	iless disi	turbed or problematic.
Type:	rock						
_							Hodela Call Broads Was V No
Depth (in	cnes):	4					Hydric Soil Present? Yes X No
Remarks:							

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	е	Sampling Date:	June 7, 2022		
Applicant/Owner:	СНА	<u> </u>		State:	NY		Sampling Point:	DP-IC-Upland		
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill				
Landform (hillslope,	-	Terrace			of (concave, con			Slope (%): 1		
	•				•	-		Slope (%)1		
Subregion (LRR or	-	LRR R		Lat: 42.171364	-°N	Long: 73.913981°W				
Soil Map Unit Name	ə: <u>-</u>							Mapped		
Are climatic / hydro	logic conditions on	the site typical for	r this time of ye	ear? Yes	XN	o (If no, explain	in Remarks.)			
Are Vegetation _	, Soil	, or Hydrology	sign	nificantly disturbed	1? A	Are "Normal Circumstances	" present?	Yes X No		
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (I	If needed, explain any answ	vers in Remarks.)			
SUMMA	ARY OF FIND	NGS – Attacl	h site map	showing sam	npling point	t locations, transect	s, important f	features, etc.		
Hydrophytic Vege	otation Present?	Yes	No	Х	Is the Sample	od Araa				
Hydric Soil Prese		-		X	within a Wetl		No	<u> </u>		
Wetland Hydrolog		-	No		If ves, optiona	al Wetland Site ID:	_	_		
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					Secondar	y Indicators (minin	num of two required)		
Primary Indicators	s (minimum of one	is required; check	(all that apply)				Soil Cracks (B6)			
Surface Wat				-Stained Leaves (E	B9)		ge Patterns (B10)			
High Water				ic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	•			Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De	. ,		_	red Rhizospheres	=	· ·	ion Visible on Aeria			
Drift Deposit Algal Mat or				nce of Reduced Iron	` ,	Stunted or Stressed Plants (D1)				
Iron Deposit	` ,		_	nt Iron Reduction ir Muck Surface (C7)	-	-	rphic Position (D2) Aquitard (D3))		
	/isible on Aerial Ima	agery (B7)		(Explain in Remar			pographic Relief ([D4)		
	egetated Concave S	. , ,		(Expidin i 1.0	iko,		eutral Test (D5)	J-1)		
Field Observation		· ·								
Surface Water Pr		Yes No	X Depth	ก (inches):		1				
Water Table Pres	sent?	Yes No	X Depth	ก (inches):		Wetland Hydrology P	resent? Yes	No <u>X</u>		
Saturation Preser		Yes No	X Depth	n (inches):		ı				
(includes capillary			" del elect							
Describe Recorde	ed Data (stream ga	luge, monitoring w	/ell, aeriai phot	os, previous inspe	ections), if availa	able:				
Remarks:	. ,									
No wetland hyd	Irology present a	t the Data Point	í.							

Tree Stratum (Plot size: 30 ft.) 1. Juniperus virginiana 2. Rhus typhina 3.	Absolute % Cover	Species?	Indicator Status	Dominance Test worksheet:		
Juniperus virginiana Rhus typhina						
2. Rhus typhina		Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(4)
	20		UPL	That Are OBL, I ACW, OF I AC.		(A)
		165	OFL	Total Number of Dominant Species Across All Strata:	5	(B)
						_(D)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
5				. ,		_` ′
6				Prevalence Index worksheet:		
7		T / 10		Total % Cover of:	Multiply by:	_
	35=	= Total Cover			x 1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				· ·	x = 0 x = 3 = 45	
1				FACU species 90		_
2				UPL species 20		_
3					(A) <u>505</u>	— (B)
4						
5				Prevalence Index = B/A	= 4.04	
6				Hydrophytic Vegetation Indic	cators:	
7				1 - Rapid Test for Hydrop	-	
	0	- Total Cover		2 - Dominance Test is >50 3 - Prevalence Index is ≤3		
erb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptat		ıq
Trifolium repens	20	Yes	FACU	data in Remarks or on		Ü
0 A		Yes	FACU	Problematic Hydrophytic \	Vegetation ¹ (Explain)	
0 0 1 1				¹ Indicators of hydric soil and w		
3. Galium boreale			FAC	be present, unless disturbed or		
	30		FACU		<u> </u>	
5				Definitions of Vegetation Stra		
6				Tree – Woody plants 3 in. (7.6	·	
7				at breast height (DBH), regard	-	
8				Sapling/shrub – Woody plants and greater than or equal to 3.3		
9						
10				Herb – All herbaceous (non-wo	.,.	of
11						
12				Woody vines – All woody vine height.	s greater than 3.28 ft in	
	90	= Total Cover				
Voody Vine Stratum (Plot size: 30 ft.)						
1.						
2				Hydrophytic		
2.				Vegetation	NoX	
3				Present? Yes	NO	
4		-				
	0	= Total Cove	r			

SOIL Sampling Point: DP-IC-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 4/2 100 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) 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 Hydric Soil Present? Yes No X Depth (inches): 5 Remarks: No hydric soils present at the Data Point, could not dig past 5 inches due to gravel refusal.



Upland IC- View facing North.



Upland IC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Concrete Plant - MP 225.4	City/County: Catskill/ Greene Sampling Date: 5/24/22
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-B- Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill
	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 42°,10',17.02"N	Long: 73°,54',49.86"W Datum:
Soil Map Unit Name: Kingsbury and Rhinebeck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X 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) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of Deposits (B2)	
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)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches):	<u>10</u> Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant Species		
Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC:	8 (A)	
. Ulmus americana	20	Yes	FACW	Total Number of Dominant		
. Salix nigra	15	Yes	OBL	Species Across All Strata:	10 (B)	
				Percent of Dominant Species		
5.				That Are OBL, FACW, or FAC:	80.0% (A/B)	
·				Prevalence Index worksheet:		
	65	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size:)) <u></u>			OBL species x	1 =	
. Ulmus americana	10	Yes	FACW	· · · · · · · · · · · · · · · · · · ·	2 =	
2. Cornus amomum	5	Yes	FACW		3 =	
3. Populus deltoides	5	Yes	FAC	FACU species x	4 =	
4.					5 =	
5.				Column Totals: (A	(B)	
5.				Prevalence Index = B/A =	· · ·	
7.				Hydrophytic Vegetation Indicat	ors:	
	20	=Total Cover		1 - Rapid Test for Hydrophytic		
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%		
1.				3 - Prevalence Index is ≤3.0 ¹		
2. Phragmites australis	30	Yes	FACU	4 - Morphological Adaptations	s ¹ (Provide supporting	
3. Equisetum arvense	5	No	FAC	data in Remarks or on a se		
4. Phlox paniculata	15	Yes	FACU	Problematic Hydrophytic Veg	etation ¹ (Explain)	
5. Valeriana officinalis	10	No	UPL	1.		
6. Impatiens capensis	5	No	FACW	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr		
7. Tussilago farfara	5	No	FACU	Definitions of Vegetation Strata		
8. Artemisia absinthium	5	No	UPL	·		
9.				Tree – Woody plants 3 in. (7.6 cm diameter at breast height (DBH),		
10.				Sapling/shrub – Woody plants le		
11.				and greater than or equal to 3.28		
12.					, ,	
	75	=Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less that		
Woody Vine Stratum (Plot size:)						
1. Toxicodendron radicans	10	Yes	FAC	Woody vines – All woody vines g height.	Jreater man 5.20 mi	
2.						
3.				Hydrophytic Vegetation		
4.				Vegetation Present? Yes X No		
	10	=Total Cover				
Remarks: (Include photo numbers here or on a sepa		-				
Tellians. (moiddo prioto namasis	, , , , , , , , , , , , , , , , , , ,					

SOIL Sampling Point P7A-B- Wet

		the de				tor or co	onfirm the absence of in	ndicators.)
Depth	Matrix	0/		x Featur		1 - 2	Tarabana	Damada
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/1	100					Loamy/Clayey	
								<u>.</u>
								_
					·			
								_
								_
¹ Typo: C=C	oncentration, D=Depleti	ion PM	-Paducad Matrix N	19-Mac	kod Sand		² l ocation: DI =	Pore Lining, M=Matrix.
Hydric Soil	•	ion, ixiv	-iteduced Mairix, it	/IO-IVIAS	Keu Sanc	Giailis.		Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	co (SQ) (I	DD D		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		ce (36) (I	LKK K,		
				•	/I DD D	MI DA 1		rie Redox (A16) (LRR K, L, R)
Black Hi	n Sulfide (A4)		Thin Dark Surf High Chroma S		-		· —	y Peat or Peat (S3) (LRR K, L, R)
								Below Surface (S8) (LRR K, L)
	l Layers (A5)	A 1 1 \	Loamy Mucky			₹ K, L)		Surface (S9) (LRR K, L)
	d Below Dark Surface (A	A11)	Loamy Gleyed		F2)			anese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		X Depleted Matri		·C\			Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		-			dic (TA6) (MLRA 144A, 145, 149B)
	sleyed Matrix (S4)		Depleted Dark					t Material (F21)
	ledox (S5)		Redox Depress		0)			ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	K N, L)			Other (Exp	lain in Remarks)
Dark Su	rface (S7)							
3Indicators of	f hydrophytic vegetatior	and w	otland hydrology mi	ist bo pr	ocont ur	aloce diet	urbod or problematic	
	Layer (if observed):	i aliu w	elianu nyurology mi	ist be bi	esent, ui	iless dist	urbed or problematic.	
Type:	Layer (ii observed).							
•								
Depth (ii	nches):						Hydric Soil Present?	? Yes <u>X</u> No
Remarks:								
			_					Field Indicators of Hydric Soils,
	2015 Errata. (http://www			SE_DOC	CUMENT	S/nrcs142	2p2_051293.docx)	
There was 1	0 inches of water in the	nole di	ug 16 inches.					



Wetland GP7A-B



Wetland GP7A-B - Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Concrete Plant - MP 225.4	City/County: Catskill/ Greene Sampling Date: 5/24/22
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-B- Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill
	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,10',17.02"N	Long: 73°,54',49.86"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 Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (F	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of the control of the	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	: <u></u>
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X_
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	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 Deminant Species
2. Populus deltoides	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. Ulmus americana	10	Yes	FACW	Total Number of Dominant
i.				Species Across All Strata: 9 (B)
5.				Percent of Dominant Species
S				That Are OBL, FACW, or FAC: 44.4% (A/B)
·				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)			OBL species x 1 =
	•			FACW species x 2 =
. Rhus typhina	5	Yes	UPL	FAC species x 3 =
3. Populus deltoides	15	Yes	FAC	FACU species x 4 =
Elaeagnus angustifolia	5	Yes	FACU	UPL species x 5 =
i				Column Totals: (A) (B)
). 				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:)	'			2 - Dominance Test is >50%
. Centaurea stoebe	20	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
Phragmites australis	10	No	FACW	4 - Morphological Adaptations ¹ (Provide supportin
3. Artemisia absinthium	20	Yes	UPL	data in Remarks or on a separate sheet)
Phlox paniculata	10	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Tussilago farfara	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
S				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
3.				Tree – Woody plants 3 in. (7.6 cm) or more in
).	_			diameter at breast height (DBH), regardless of height.
0.	_			Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardless
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:)			Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	10	Yes	FAC	height.
2.				
				Hydrophytic Vegetation
3.				Present? Yes No X
3. 4.				

SOIL Sampling Point P7A-B- Up

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-15	7.5YR 3/3	100					Loamy/Clayey	
					· <u></u>	<u> </u>		
Type: C=Co		tion RN	M=Reduced Matrix N	 2SM=2N	ked Sand	d Grains	² Location: PL =F	Pore Lining, M=Matrix.
Hydric Soil Ir		idon, ran	Treduced Matrix, N	no mas	nou ounc	a Graino.		Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		(A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		, , ,	,		e Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B) 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		High Chroma S	Sands (S	311) (LRF	R K, L)	Polyvalue B	elow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dark S	urface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
	k Surface (A12)		X Depleted Matri					loodplain Soils (F19) (MLRA 149B
	icky Mineral (S1)		Redox Dark Su		-			ic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					Material (F21)
Sandy Re			Redox Depress		8)			w Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK,L)			Other (Expi	ain in Remarks)
Dark Surf	ace (S7)							
³ Indicators of	hydrophytic vegetatio	on and w	vetland hydrology mu	ıst he nr	esent ur	nless dist	urbed or problematic.	
	ayer (if observed):	in and v	Totalia Hydrology Illa	act be pi	000111, 41	nooc diot	arboa or problematic.	
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (inc	ches).						Hydric Soil Present?	Yes No X
							,	
Remarks: This data form	n is revised from Nort	hcantra	I and Northeast Regi	ional Su	nnlement	t Version	2 0 to include the NRCS I	Field Indicators of Hydric Soils,
	015 Errata. (http://wv							icia maicators of riyane cons,
	inches of water in the			_			, _ ,	



Upland GP7A-B



Upland GP7A-B- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Concrete Plant - MP 225.4	City/County: Catskill/ Greene Sampling Date: 5/24/22
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-C- Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,10',15.55"N	Long: 73°,54',51.49"W Datum:
Soil Map Unit Name: Kingsbury and Rhinebeck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturb	
Are Vegetation , Soil , or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Attach site map showing sum	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B	B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
X Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) X Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	:8
Water Table Present? Yes No X Depth (inches):	:
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
. Fraxinus pennsylvanica	15	Yes	FACW		
2. Acer negundo	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	9 (A)
3. Ulmus americana	10	No	FACW		
I. Salix nigra	10	No	OBL	Total Number of Dominant Species Across All Strata:	10 (B)
5. Fraxinus americana	5	No	FACU	·	. ,
S.			17.6.	Percent of Dominant Species That Are OBL, FACW, or FAC:	90.0% (A/B)
7.				Prevalence Index worksheet:	
	55	=Total Cover		Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size:)					(1=
I. Ulmus americana	10	Yes	FACW		(2=
2. Acer negundo	5	Yes	FAC		(3=
3. Populus deltoides	5	Yes	FAC	· —	(4 =
Rhamnus cathartica	5	Yes	FAC		<u> </u>
5.					(A) (B)
5.				Prevalence Index = B/A =	
7.				Hydrophytic Vegetation Indica	
	25	=Total Cover		1 - Rapid Test for Hydrophyt	
Herb Stratum (Plot size:				X 2 - Dominance Test is >50%	
1. Typha latifolia	10	Yes	OBL	3 - Prevalence Index is ≤3.0	
2. Phragmites australis	10	Yes	FACU	4 - Morphological Adaptation	
3. Impatiens capensis	5	No	FACW	data in Remarks or on a s	
4. Lythrum salicaria	10	Yes	OBL	Problematic Hydrophytic Ve	netation ¹ (Explain)
5. Tussilago farfara	5	No	FACU	1,	
6. Geum aleppicum	5	No	FAC	¹ Indicators of hydric soil and wet be present, unless disturbed or p	
7. Artemisia absinthium	5	No	UPL	Definitions of Vegetation Strat	
8.					
9.				Tree – Woody plants 3 in. (7.6 cl diameter at breast height (DBH),	
10.					
11				Sapling/shrub – Woody plants I and greater than or equal to 3.28	
12.					, ,
	50	=Total Cover		Herb – All herbaceous (non-woo of size, and woody plants less th	
Woody Vine Stratum (Plot size:)					
Toxicodendron radicans	5	Yes	FAC	Woody vines – All woody vines height.	greater than 3.2ο π π
2.		<u> </u>			
3.				Hydrophytic	
4.				Vegetation Present? Yes X	No
	5	=Total Cover		11000111	
		_ 10tal 0010.			

SOIL Sampling Point P7A-C- Wet

	•	o the de	•			tor or c	onfirm the absence o	f indicators.)
Depth (inches)	Matrix	%		k Featur		Loc ²	Toytura	Domorko
(inches) 0-3	7.5YR 3/1	85	7.5YR 3/4	<u>%</u>	Type ¹	M	Texture Mucky Leam/Clay	Remarks
0-3	7.51K 3/1	00	7.51K 5/4	15	<u>C</u>	IVI	Mucky Loam/Clay	
3-14	10YR 3/2	95	7.5YR 4/6	5	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations
¹ Type: C=Co	oncentration, D=Depl	etion, RN	/⊒Reduced Matrix, №	1S=Mas	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,	2 cm Mu	ıck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B)					rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		-			icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					le Below Surface (S8) (LRR K, L)
	l Layers (A5) I Below Dark Surface	· (A11)	Loamy Mucky N			RK,L)		rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R)
	irk Surface (A12)	: (A11)	X Depleted Matrix		ΓZ)			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		6)			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		-			ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR l	R K, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
3Indicators of	hydrophytia yagatati	on and w	votland hydrology mu	at ha nr	occut ur	alogo dio	turbad or problematic	
	_ayer (if observed):	on and v	vetiand hydrology mu	ist be pr	esent, ur	iless dis	turbed or problematic.	
Type:	Layer (II observed).							
Depth (ir	nches).						Hydric Soil Prese	nt? Yes X No
							11,411.000.	<u> </u>
Remarks: This data for	m is revised from No	rthcentra	I and Northeast Regi	onal Su	pplement	t Version	2.0 to include the NR0	CS Field Indicators of Hydric Soils,
	2015 Errata. (http://w		_					· · · · · · · · · · · · · · · · · ·
There was 10	inches of water in the	ne hole d	ug 16 inches.					



Wetland GP7A-C



Wetland GP7A-C- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CHPE- Package 7A - Concrete Plant - MP 225.4	City/County: Catskill/ Greene Sampling Date: 5/24/22
Applicant/Owner: CHPE	State: NY Sampling Point: P7A-C-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Catskill
Landform (hillside, terrace, etc.): Lake Plains Local	relief (concave, convex, none): Concave Slope %: 0
	Long: 73°,54',51.49"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 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 No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Inc.	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	:
Water Table Present? Yes No X Depth (inches):	:
Saturation Present? Yes No X Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator				
<u>Free Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:			
Fraxinus americana	15	Yes	FACU	Number of Dominant Species			
2. Acer negundo	15	Yes	FAC	That Are OBL, FACW, or FAC:	7 (A)		
3. Ulmus americana	10	Yes	FACW	Total Number of Dominant			
4. Acer saccharum	10	Yes	FACU	Species Across All Strata:	12 (B)		
5.	,			Percent of Dominant Species			
6.				That Are OBL, FACW, or FAC:	58.3% (A/B)		
7				Prevalence Index worksheet:			
	50	=Total Cover		Total % Cover of:	Multiply by:		
Sapling/Shrub Stratum (Plot size:)	ı				1 =		
1. Solidago canadensis	10	Yes	FACU	FACW species x 2	2 =		
2. Acer negundo	5	Yes	FAC	FAC species x 3	3 =		
3. Populus deltoides	5	Yes	FAC	FACU species x 4	4 =		
4. Rhamnus cathartica	5	Yes	FAC	UPL species x s	5 =		
5				Column Totals: (A	(B)		
6				Prevalence Index = B/A =			
7				Hydrophytic Vegetation Indicate	ors:		
	25	=Total Cover		1 - Rapid Test for Hydrophytic	c Vegetation		
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%			
1. Artemisia absinthium	10	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹			
2. Phragmites australis	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide support			
3. Impatiens capensis	5	No	FACW	data in Remarks or on a se	eparate sheet)		
4. Lythrum salicaria	10	Yes	OBL	Problematic Hydrophytic Veg	etation ¹ (Explain)		
5. Tussilago farfara	5	No	FACU	¹ Indicators of hydric soil and wetla	and hydrology must		
6. Erigeron strigosus	5	No	FACU	be present, unless disturbed or pr			
7	,			Definitions of Vegetation Strata	ı:		
8	,			Tree – Woody plants 3 in. (7.6 cm	n) or more in		
9	,			diameter at breast height (DBH), i			
10	,			Sapling/shrub – Woody plants le	ess than 3 in. DBH		
11	,			and greater than or equal to 3.28			
12				Herb – All herbaceous (non-wood	dv) plants, regardless		
	45	=Total Cover		of size, and woody plants less that			
Woody Vine Stratum (Plot size:))			Woody vines – All woody vines g	areater than 3.28 ft ir		
1. Toxicodendron radicans	10	Yes	FAC	height.			
2				l			
3				Hydrophytic Vegetation			
4				Present? Yes X	No		
	10	=Total Cover					

SOIL Sampling Point P7A-C-Up

Depth	cription: (Describe t Matrix	to the de		ıment ti x Featur		itor or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/3	100					Loamy/Clayey	
¹ Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators fo	r Problematic Hydric Soils ³ :
Histosol	` '		Polyvalue Belo		ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•				airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		-		· —	cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	l Layers (A5) d Below Dark Surface	· (A11)	Loamy Mucky			K K, L)		Surface (S9) (LRR K, L)
	а веюw Dark Surface ark Surface (А12)	(A11)	Loamy Gleyed Depleted Matri		F2)			ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			odic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark		-			ent Material (F21)
	ledox (S5)		Redox Depress					llow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Ex	κplain in Remarks)
Dark Su	rface (S7)							
•								
	, , , ,	ion and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	t? Yes No X
Version 7.0,	m is revised from Noi 2015 Errata. (http://w 0 inches of water in tl	ww.nrcs.	usda.gov/Internet/FS					S Field Indicators of Hydric Soils,



Upland GP7A-C



Upland GP7A-C- 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: JC-8
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: 42.1715	Long: -73.91401 Datum: NAD83
Soil Map Unit Name:	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation No, Soil N, or Hydrology N significantly 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 samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present?	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland JC	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres o Trift Deposits (B3) 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):	8
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:	
Tolliano.	

VEGETATION – Use scientific names of plants. Sampling Point: JC-8 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: OBL species Sapling/Shrub Stratum (Plot size: 15) 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 JC-8

	• •	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			K K, 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 JC- Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	June 7, 2022		
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-JC-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: 42.166586	<u>°N</u>	Long: 73.916196°W				
Soil Map Unit Name	9: <u>-</u>					NWI clas	ssification: Not N	Mapped		
Are climatic / hydrol	logic conditions on	the site typical for	r this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? 4	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	t locations, transect	s, important f	features, 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:				
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:					Secondar	ry Indicators (minin	num of two required)		
_	s (minimum of one	is required; check	(all that apply)				Soil Cracks (B6)	tani oi two requirea)		
Surface Wat	•	is required, check		-Stained Leaves (F	80)		ge Patterns (B10)			
High Water			_	c Fauna (B13)	D8)		rim Lines (B16)			
Saturation (A				eposits (B15)			ason Water Table ((C2)		
Water Marks	•			gen Sulfide Odor ((C1)		n Burrows (C8)	(0=)		
Sediment De			_	ed Rhizospheres			ion Visible on Aeria	al Imagery (C9)		
Drift Deposit	. , ,			nce of Reduced Iro	=	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	s (B5)		Thin M	luck Surface (C7)		Shallow Aquitard (D3)				
	isible on Aerial Ima		Other ((Explain in Remar	·ks)	Microtopographic Relief (D4)				
Sparsely Ve	getated Concave S	Surface (B8)				FAC-Ne	eutral Test (D5)			
Field Observatio										
Surface Water Pre		Yes No					·	v		
Water Table Pres		Yes No	·			Wetland Hydrology Pr	esent? Yes	No <u>X</u>		
Saturation Preser (includes capillary		Yes No	X Depth	ı (inches):						
	ed Data (stream ga	uae. monitoring w	vell. aerial phote	os. previous inspe	ections), if avail	able:				
	· -	., .			,,					
Remarks:	rology present a	+ +ho Data Point								
NO Welland nya	lology procent a	l liie Dala i oiii								

(Plot size: 30 ft.)

Tree Stratum

Juniperus virginiana	20	Yes	FACU	That Are OBL, FACW, or FAC:	(A)
2. Rhus typhina	10	Yes	UPL	Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	0 (A/B)
5					
6				Prevalence Index worksheet:	
7		 .		Total % Cover of:	Multiply by:
	30	= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x = 0
1					x 3 = 45
2					x 4 = <u>80</u>
3				-	x = 475
				Column Totals: 130	(A) <u>600</u> (B)
4				Prevalence Index = B/A =	4 61
5					
6				Hydrophytic Vegetation Indica	
7				1 - Rapid Test for Hydrophy 2 - Dominance Test is >50%	
	0	= Total Cover		3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)		,		4 - Morphological Adaptatio	
1. Apocynum cannabinum	15	No	FAC	data in Remarks or on a	separate sheet)
			UPL	Problematic Hydrophytic Ve	ogetation ¹ (Explain)
3. Centaurea stoebe	60	Yes	UPL	¹ Indicators of hydric soil and wet be present, unless disturbed or p	
4				be present, unless disturbed of p	TODIETTALIC.
5				Definitions of Vegetation Strate	a:
6				Tree – Woody plants 3 in. (7.6 cr	m) or more in diameter
7				at breast height (DBH), regardles	ss of height.
8				Sapling/shrub – Woody plants le	ess than 3 in. DBH
				and greater than or equal to 3.28	ft (1 m) tall.
9				Herb – All herbaceous (non-woo	dy) plants, regardless of
10				size, and woody plants less than	3.28 ft tall.
11				Woody vines – All woody vines	greater than 3.28 ft in
12				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1.					
				Hydrophytic	
2				Vegetation	v
3				Present? Yes _	No <u>X</u>
4					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					
No hydrophytic vegetation found at the Data Point.					

Indicator Status

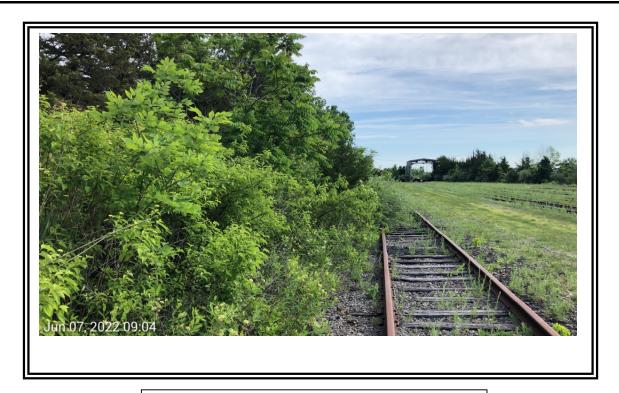
Absolute

% Cover

Dominant

Species?

SOIL Sampling Point: DP-JC-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) 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): 2 Remarks: Could not dig past 2 inches due to gravel refusal, no hydric soils present at the Data Point.



Upland JC- View facing North.

No Photos

Upland JC Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS



Upland JC- Soils

Phase 7

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling D	Date: October 6, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Po	oint: DP-TE	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill			
Landform (hillslope,	•	Depression			f (concave, con		Concave	Slope (%): 1	
	·				,			Slope (%)	
Subregion (LRR or	-	LRR R		Lat: 42.166905	5°N	Long: 73.914689		Datum: NADOS	
Soil Map Unit Name): <u>-</u>						NWI classification:	-	
Are climatic / hydrol	_	• •	-			o (If no	, explain in Remarks.		
Are Vegetation	, Soil	, or Hydrology	sig	gnificantly disturbed	1? A	re "Normal Circur	mstances" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	na	turally problematic?	? (I	f needed, explain	any answers in Rema	arks.)	
SUMMA	ARY OF FINDI	NGS – Attach	າ site map	showing sam	npling point	locations, tr	ansects, import	tant features, etc.	
Hydrophytic Vege	station Present?	Yes	X No	2	Is the Sample	ed Area			
Hydric Soil Prese		Yes	X No		within a Wetl		Yes X	No	
Wetland Hydrolog		Yes	X No	•	If yes, optiona	al Wetland Site ID	: TE		
Remarks: (Explain PEM Wetland Id				railroad and land	lfill.				
HYDROLOGY									
Wetland Hydrolo	gy Indicators:						Secondary Indicators	(minimum of two required)	
Primary Indicators	(minimum of one	is required; check	all that apply	/)			Surface Soil Cracks	(B6)	
Surface Wat	er (A1)		Wate	er-Stained Leaves (I	B9)	<u>X</u>	Drainage Patterns (I	B10)	
High Water	Γable (A2)			atic Fauna (B13)		_	Moss Trim Lines (B		
Saturation (A	13)		Marl	Deposits (B15)		_	Dry-Season Water 1	Γable (C2)	
Water Marks	; (B1)			ogen Sulfide Odor (Crayfish Burrows (C		
Sediment De				ized Rhizospheres	•				
Drift Deposit			_	ence of Reduced Iro	` '		Stunted or Stressed	, ,	
Algal Mat or	* *			ent Iron Reduction in	•	(26) <u>X</u>	· ·		
Iron Deposits		·		Muck Surface (C7)			Shallow Aquitard (D		
	isible on Aerial Imgetated Concave S		Other	r (Explain in Remar	rks)	<u>X</u>	Microtopographic Re FAC-Neutral Test (D		
		Juliace (Do)					170-100000 1000 (2		
Field Observatio Surface Water Pre		Yes No	Y Den	th (inches):					
Water Table Pres		Yes No				Wetland Hydi	rology Present?	Yes X No	
Saturation Preser		Yes No	·			Wenana nya	Ology Fresent.	res A no	
(includes capillary		165 110	<u> </u>	III (IIICIIco).					
		uge, monitoring w	ell, aerial pho	otos, previous inspe	ections), if availa	able:			
				-					
Remarks:	any observed of	the Data Boint							
vveliana nyaroic	ogy observed at	the Data Point.							

VEGETATION – Use scientific names of plants.					Sa	ampling Point: DP-TE
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test		
1				Number of Domir That Are OBL, FA		(A)
2. 3.				Total Number of Species Across A		4 (B)
4				Percent of Domin		75 (A/B)
5				·		
7				Prevalence Inde		Multiply by:
	0	= Total Cover		OBL species	110	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	$x 2 = \frac{220}{x 3} = 0$
1. Cornus amomum	15		FACW	FACU species	0	
2. Rhamnus alnifolia			OBL	UPL species	0	x 5 = 0
Diphasiastrum digitatum 4.		Yes	FAC	Column Totals:	120	(A) <u>230</u> (B)
5.				Prevalence	e Index = B/A = 1	1.91
6.				Hydrophytic Veg	getation Indicat	ors:
7				1 - Rapid Te	est for Hydrophyt	tic Vegetation
				X 2 - Dominar		
Herb Stratum (Plot size: 5 ft.)	40	= Total Cover		X 3 - Prevalen		ns ¹ (Provide supporting
	0.5	.,	E4.014/		Remarks or on a	
Phragmites australis		Yes	FACW	Problematic	: Hydrophytic Ve	getation ¹ (Explain)
2						
3				be present, unles		and hydrology must roblematic.
4. 5.				Definitions of Ve	•	
6.					_	n) or more in diameter
7				at breast height (DBH), regardless	s of height.
8 9.				Sapling/shrub – and greater than		ess than 3 in. DBH ft (1 m) tall.
10				Herb – All herbad		dy) plants, regardless of 3.28 ft tall.
11.					All woody vines g	reater than 3.28 ft in
12	95	= Total Cover		height.		
Woody Vine Stratum (Plot size: 30 ft.)	- 50					
1						
2.				Hydrophytic		
				Vegetation Present?	Yes _	X No
3				Fresent	165 _	NO
4	0	= Total Cove				
Demarka: /lackuda phata numbara bara ar an a canarata abaat \	0	= Total Cove	<u> </u>	1		
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation observed at the Data Point.						
ŭ						

SOIL Sampling Point: DP-TE Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) Texture Remarks 0-20 10YR 2/1 80 7.5YR 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) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) X Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) 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): 20 Hydric Soil Present? Yes No Remarks: Hydric soil observed at the Data Point.



PEM Wetland TE- View facing North.



PEM Wetland TE- Soils

Segment 11 – Package 7A

SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Date:	October 7, 2022	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-TE-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill	•		
	•	Plain						Slope (%): 2	
					· · · · · · · · · · · · · · · · · · ·			Slope (%) 2	
Subregion (LRR or I		LRR R		Lat: 42.164965	°N	Long: 73.916533°W			
Soil Map Unit Name								Mapped	
Are climatic / hydrol	ogic conditions on	the site typical for	r this time of yea	ar? Yes	<u>X</u> N	o (If no, explain	in Remarks.)		
Are Vegetation	, Soil X	, 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 ansv	wers in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	ı site map s	showing sam	pling point	locations, transect	s, important	features, etc.	
Hydrophytic Vege	station Present?	Yes	No	Х	Is the Sample	od Araa			
Hydric Soil Presei		-	No		within a Wet		No	X	
Wetland Hydrolog		-	No		If yes, optiona	al Wetland Site ID:			
Remarks: (Explain: Upland Data Po					ad.				
HYDROLOGY									
Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minir	num of two required)	
	s (minimum of one	is required; check				· · · · · · · · · · · · · · · · · · ·	Soil Cracks (B6)		
Surface Wate				Stained Leaves (E	B9)		ge Patterns (B10)		
High Water Table (A2)				Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)				eposits (B15)		Dry-Season Water Table (C2)			
Water Marks				gen Sulfide Odor (h Burrows (C8)		
Sediment De				ed Rhizospheres	_		ion Visible on Aeri		
Drift Deposits			_		, ,			•	
Algal Mat or	* *				•				
Iron Deposits		st (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3) e on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)							
	undation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) parsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)					D4)			
		Juliace (Do)					duliai 1631 (150)		
Field Observatio Surface Water Pre		Yes No	Y Denth	(inches).					
Water Table Pres		Yes No				Wetland Hydrology P	rocont? Vas	No X	
Saturation Presen		Yes No				Welldhu riyurology .	resent: 163	No <u>X</u>	
(includes capillary		res 140	V Debui	(Inches).					
	ed Data (stream ga	auge, monitoring w	ell, aerial photo	os, previous inspe	ections), if avail	able:			
		_		-71	,,				
Remarks:		ulla Data Daiat							
No wetland nydi	rology present a	t the Data Point	•						

	Absolute		Indicator	Dominance Test worksheet:	
e Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Number of Dominant Species	
				That Are OBL, FACW, or FAC:	(A)
				Total Number of Dominant	
				Species Across All Strata:	1(B)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	0(A/E
				Prevalence Index worksheet: Total % Cover of:	Multiply by:
	0	= Total Cover		-	x 1 = 0
ling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
				!	x 3 = 0
				-	x 4 = 280
				UPL species 40	x 5 = 200
				Column Totals: 110	(A) 480 (B
				Prevalence Index = B/A =	± 4.36
				Hydrophytic Vegetation Indica	ators:
				1 - Rapid Test for Hydroph	ytic Vegetation
				2 - Dominance Test is >50	
	0	= Total Cover		3 - Prevalence Index is ≤3	
o Stratum (Plot size: 5 ft.)				4 - Morphological Adaptati data in Remarks or on	
Lolium perenne	60	Yes	FACU		,
Eurybia divaricata	15	No	UPL	Problematic Hydrophytic V	egetation ¹ (Explain)
Plantago lanceolata	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must	
Daucus carota	10	No	UPL	be present, unless disturbed or	problematic.
Centaurea stoebe	15	·	UPL	Definitions of Vegetation Stra	ta:
				Tree – Woody plants 3 in. (7.6 c	cm) or more in diameter
				at breast height (DBH), regardle	•
				Sapling/shrub – Woody plants	loss than 2 in DBH
				and greater than or equal to 3.2	
				Herb – All herbaceous (non-wo	ody) plants regardless of
				size, and woody plants less that	,,,
· <u> </u>				Woody vines – All woody vines	greater than 3.28 ft in
·				height.	greater than 3.20 it in
	110	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)		•			
				Hydrophytic	
				Vegetation	
				Present? Yes	No <u>X</u>
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separ	rate sheet.)				
Vegetation observed at the Data Point.					

SOIL Sampling Point: DP-TE-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 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) 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: Multiple soil pits dug but were only able to reach 5 inches due to compaction. No hydric soils present.