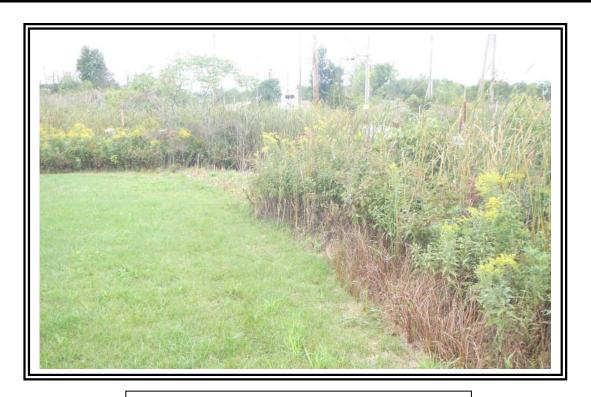
### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	- Сроско	Otatuo	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =
1. Juniperus communis	5	Yes	FACU	FACW species x 2 =
2. Cornus racemosa	5	Yes	FAC	FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phragmites australis	30	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Typha angustifolia	45	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	10	No	OBL	data in Remarks or on a separate sheet)
4. Solidago altissima	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ul><li>5.</li><li>6.</li></ul>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2				neight.
				Hydrophytic
3. 4.				Vegetation Present? Yes X No
<b></b>		=Total Cover		11636Ht. 163 <u>X</u> NO
Remarks: (Include photo numbers here or on a separ	rate sheet )	H		
remarks. (include prioto numbers here of off a separ	ale sileel.)			

Sampling Point: GP6-P-Wet

SOIL Sampling Point GP6-P-Wet

Profile Desc	ription: (Describe t	o the de				tor or co	onfirm the absence of	indicators.)
Depth	Matrix			Featur		. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5YR 4/2	100					Loamy/Clayey	
2-5	7.5YR 3/4	95	7.5YR 5/8	5	С	M	Loamy/Clayey	Prominent redox concentrations
5-12	7.5YR 2.5/1	95	7.5YR 5/8	5	С	M	Loamy/Clayey	Prominent redox concentrations
								_
1- 0.0							2, ,, ,,	
	oncentration, D=Deple	etion, RN	1=Reduced Matrix, M	IS=Mas	ked Sand	d Grains.		_=Pore Lining, M=Matrix.
Hydric Soil I Histosol			Polyvalue Belov	w Surfa	ce (S8) (I	I DD D		or Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		CE (OO) (I	LIXIX IX,		airie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S		-			e Below Surface (S8) ( <b>LRR K, L</b> )
Stratified	I Layers (A5)		Loamy Mucky N	Mineral (	(F1) ( <b>LR</b> I	R K, L)	Thin Dark	Surface (S9) ( <b>LRR K, L</b> )
	l Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	ganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Depleted Matrix					t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		X Redox Dark Su		-			odic (TA6) (MLRA 144A, 145, 149B)
	eleyed Matrix (S4)		Depleted Dark					ent Material (F21) Ilow Dark Surface (F22)
	edox (S5) Matrix (S6)		? Redox Depress Marl (F10) (LRI		0)			cplain in Remarks)
	face (S7)		Warr (F TO) (ETG	· · · · · · · · ·				tpiani ii i tomano)
	,							
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu	st be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:								
								S Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/internet/FS	E_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	



Wetland GP6-P



**Wetland GP6-P - Soils** 

Supplemental Delineation Package 6

### **SITE PHOTOGRAPHS**

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

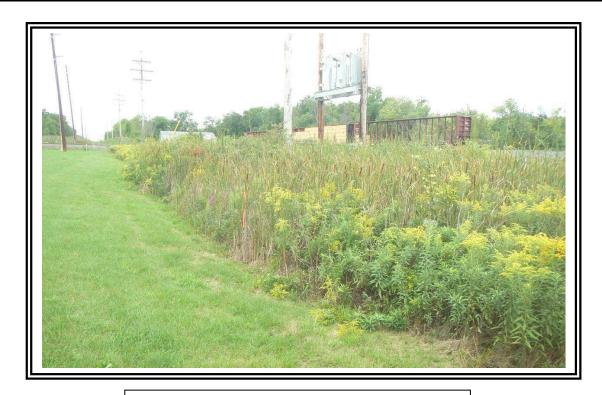
Project/Site: CHPE- Package 6- Schoharie Turnpike	City/County: Athens/ Greene Sampling Date: 9/7/2022
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-P-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Athens
	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,17',9.00' 'N	Long: -73°,50',30.00" Datum:
Soil Map Unit Name: Covington and Madalin soils	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation , Soil , or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
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)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	<del></del>
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	evious inspections), if available:
Remarks:	

**VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:
· <u></u>				Number of Dominant Species
·				That Are OBL, FACW, or FAC: 0 (A)
				Tatal Nambar of Damin and
				Total Number of Dominant Species Across All Strata: 2 (B)
				· — · · ·
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
). ,				Prevalence Index worksheet:
· -		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
· · · · · · · · · · · · · · · · · · ·				FACW species x 2 =
· -				FAC species x 3 =
				<u> </u>
				FACU species x 4 = UPL species x 5 =
				' <del></del>
				Column Totals: (A) (B
·	,			Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
. Centaurea stoebe	5	No	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Schedonorus pratensis	25	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supportir data in Remarks or on a separate sheet)
B. Poa pratensis	50	Yes	FACU	
Solidago altissima	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
i				be present, unless disturbed or problematic.
<sup>7</sup>				Definitions of Vegetation Strata:
B				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles:
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:15)				Woody vines – All woody vines greater than 3.28 ft in
				height.
<u> </u>				
3.				Hydrophytic
				Vegetation Present? Yes No X
				<del></del>
4.		=Total Cover		

SOIL Sampling Point GP6-P-Up

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



**Upland GP6-P** 



**Upland GP6-P- Soils** 

Supplemental Delineation Package 6

## **SITE PHOTOGRAPHS**

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

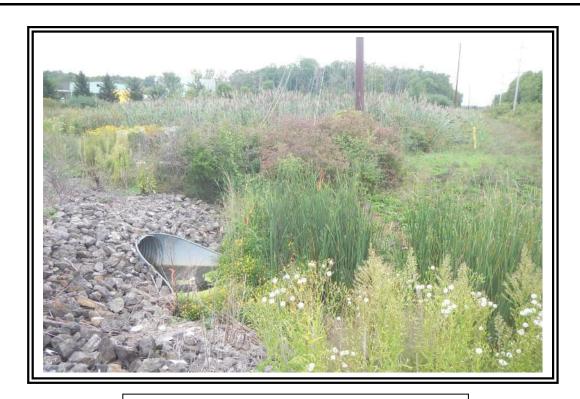
Project/Site: CHPE- Package 6- Schoharie Turnpike	City/County: Athens/ Greene Sampling Date: 9/7/2022
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-Q-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Athens
Landform (hillside, terrace, etc.): Depressions Local	relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42°,16',59.00' 'N	Long: -73°,50',33.00" Datum:
Soil Map Unit Name: Covington and Madalin soils	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
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 Remarks: (Explain alternative procedures here or in a separate report.)	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 (I	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction ir	. , , , ,
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
P	
Remarks:	

### **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
·				That Are OBL, FACW, or FAC: 4 (A)
				Total Number of Dominant
				Species Across All Strata: 4 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
Cornus racemosa	10	Yes	FAC	FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5 )		•		X 2 - Dominance Test is >50%
Typha angustifolia	35	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phragmites australis	25	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
. Lythrum salicaria	10	No	OBL	data in Remarks or on a separate sheet)
Solidago altissima	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
i				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
•				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft i
				height.
· .				
				Hydrophytic Vegetation
				Present? Yes X No
		=Total Cover		

SOIL Sampling Point GP6-Q-Wet

Profile Desc Depth	cription: (Describe t Matrix	to the de	-	<b>ument tl</b> x Featur		ator or c	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	7.5YR 2.5/1	75	7.5YR 4/6	25	С	PL/M	Mucky Loam/Clay	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	. <sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soil								r Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Polyvalue Belo		ce (S8) (	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•				airie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		High Chroma S Loamy Mucky					e Below Surface (S8) ( <b>LRR K, L</b> ) s Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	Δ11)	Loamy Gleyed			K K, L)		ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(7(11)	Depleted Matri		1 2)			t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		<del>-</del> 6)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	sleyed Matrix (S4)		Depleted Dark		-			ent Material (F21)
Sandy R	edox (S5)		? Redox Depres	sions (F	8)		Very Shal	llow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R</b> K, L)			Other (Ex	plain in Remarks)
Dark Sui	rface (S7)							
2								
	, , , ,		vetland hydrology mi	ust be pr	resent, u	nless dis	turbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present	t? Yes X No
Version 7.0,	m is revised from Noi 2015 Errata. (http://w 0 inches of water in tl	ww.nrcs	.usda.gov/Internet/F					S Field Indicators of Hydric Soils,



Wetland GP6-Q



Wetland GP6-Q- Soils

Supplemental Delineation Package 6

## SITE PHOTOGRAPHS

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

Project/Site: CHPE- Package 6- Schoharie Turnpike	City/County: Athens/ Greene Sampling Date: 9/7/2022
Applicant/Owner: CHPE	State: NY Sampling Point: GP6-Q-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Town of Athens
Landform (hillside, terrace, etc.): Depressions Local	relief (concave, convex, none): Concave Slope %: 0
	Long: -73°,50',33.00" Datum:
Soil Map Unit Name: Covington and Madalin soils	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained Leaves (B	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 Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction ir	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	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Dominance Test worksheet:
1.	1			Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3.				
1		-		Total Number of Dominant Species Across All Strata: 5 (B)
				Percent of Dominant Species
6	1			That Are OBL, FACW, or FAC: 40.0% (A/B)
7				Prevalence Index worksheet:
	II.	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
1. Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
2. Cornus racemosa	5	Yes	FAC	FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )		_		2 - Dominance Test is >50%
1. Centaurea stoebe	50	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Schedonorus pratensis	20	Yes	UPL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Poa pratensis	10	No	FACU	data in Nemarks of on a separate sheet)
4. Solidago altissima	20	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
_				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				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15 )		_		
				Woody vines – All woody vines greater than 3.28 ft in height.
	·			Height.
2.	ı			Hydrophytic
3				Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: GP6-Q-Up

SOIL Sampling Point GP6-Q-Up

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   Loamy/Clayey	Depth	Matrix		Redo	x Featur	es			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (F1) Sandy Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Are dox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Dark Surface (F7) Mindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (F1) Sandy Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Are dox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Dark Surface (F7) Mindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:	0-12	10YR 4/2	100					Loamy/Clayey	
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Polyvalue Below Surface (F12)  Redox Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mara 149B)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Thin Dark Surface (S9) (LRR K, L)  High Chroma Sands (S11) (LRR K, L)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators for Problematic Hydric Soils 3:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L, R)  Polyvalue Below Surface (S9) (LRR K, L, R)  Polyvalue B									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Polyvalue Below Surface (F12)  Redox Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  All Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  All Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  All Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Polyvalue Below Surface (F12)  Redox Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1		-							
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Polyvalue Below Surface (F12)  Redox Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Mari (F10) (LRR K, L)  Depleted Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  High Chroma Sands (S11) (LRR K, L)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Polyvalue Below Surface (F12)  Redox Dark Surface (F7)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Polyvalue Below (A16) (LRR K, L, R) To Coast Prairie Redox (A16) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K, L, R) To Mucky Peat or Peat (S3) (LRR K			etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		
Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Depleted Dark Surface (F7)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L, R)  Thin Dark Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)  Mesic Spodic (TA6) (MLRA 144A, 145, 149E  Sandy Redox (S5)  Red Parent Material (F21)  Seripped Matrix (S6)  Marl (F10) (LRR K, L)  Other (Explain in Remarks)  Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:	-								•
Black Histic (A3)						ce (S8) (	LRR R,		
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11)  Thin Dark Surface (S9) (LRR K, L)  Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Redox Dark Surface (F7)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Arrived Matrix (S6)  Dark Surface (S7)  Briddicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:					•				
Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Depleted Below Dark Surface (A11)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Thick Dark Surface (A12)  Depleted Matrix (F3)  Piedmont Floodplain Soils (F19) (MLRA 149  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 149  Mesic Spodic (TA6) (MLRA 144A, 145, 149  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 144  Mesic Spodic (TA6) (MLRA 144A, 145, 149  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 144  Mesic Spodic (TA6) (MLRA 144A, 145, 149  Mesic Spodic (TA6) (MLRA 144A, 1									
Depleted Below Dark Surface (A11)  Loamy Gleyed Matrix (F2)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Depleted Matrix (F2)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149  Mesic Spodic (TA6) (MLRA 144A, 145, 149  Mesic Spodic (TA6) (MLRA 144A, 145  Mesic Spodic (TA6) (MLRA 144A, 145									
Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Dark Surface (S7)  Piedmont Floodplain Soils (F19) (MLRA 149)  Mesic Spodic (TA6) (MLRA 144A, 145, 149E)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Dark Surface (S7)  Piedmont Floodplain Soils (F19) (MLRA 149  Mesic Spodic (TA6) (MLRA 144A, 145, 149E)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 149  Mesic Spodic (TA6) (MLRA 149  Mesic Spodic (TA			(4.4.4)				R K, L)		
Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Depleted Dark Surface (F6)  Sandy Redox (S5)  Redox Depressions (F8)  Stripped Matrix (S6)  Dark Surface (S7)  Mesic Spodic (TA6) (MLRA 144A, 145, 149E)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:			(A11)			F2)			
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Redox Depressions (F8)  Very Shallow Dark Surface (F22)  Stripped Matrix (S6)  Dark Surface (S7)  Marl (F10) (LRR K, L)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:						-0)			
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)  Dark Surface (S7)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:						-			
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:									
Dark Surface (S7)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:						0)			
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:				(VIAIT (I 10) (LIX	IX IX, L)			Other (Explain	ii iii Neillaiks)
Restrictive Layer (if observed):  Type:	Dark ou	nace (Gr)							
Restrictive Layer (if observed):  Type:	3Indicators o	f hydrophytic vegetation	on and w	vetland hvdrologv mu	ıst be pr	esent. ur	nless dist	urbed or problematic.	
Type:		, , , ,			р.			and an programme.	
·· ————		, , , , , , , , , , , , , , , , , , , ,							
Deput (incles).	,,	nches).						Hydric Soil Present?	Vos No Y
Remarks:								Tryunc 3011 Fresent:	165 NO X
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Version 7.0,	2015 Errata. (http://w\	ww.nrcs.	usda.gov/Internet/F\$	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	
. 5 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -									
·									



Upland GP6- Q



**Upland GP6-Q- Soils** 

Supplemental Delineation Package 6

# SITE PHOTOGRAPHS

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

Project/Site:	Champlain Huds	son Express		City/Co	ounty: Green	ne	Sampling Da	ate: November 18, 2021
Applicant/Owner:	CHA			State:	NY		Sampling Poi	int: DP-AX
Investigator(s):	Tristen Peterson	n		Section	, Township, Rang	je: Catskill		
Landform (hillslope,		Floodplain			elief (concave, cor	-	Concave	Slope (%): 1
, ,	•				•	·		
Subregion (LRR or I	-	LRR R		Lat: 42.2825	585 °N	Long: -73.84313		Datum: NAD83
Soil Map Unit Name	: CO - Covingt	ton and Madalin so	oils				<u>-</u>	Not Mapped
Are climatic / hydrole	ogic conditions or	n the site typical for	r this time o	f year? Yes	<u>X</u> N	No (If no	o, explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	s	significantly disturt	ped?	Are "Normal Circu	ımstances" present?	Yes <b>X</b> No
Are Vegetation	, Soil	, or Hydrology	r	naturally problema	itic? (	(If needed, explain	n any answers in Remai	rks.)
SUMMA	ARY OF FIND	INGS – Attach	n site ma	ap showing sa	ampling poin	t locations, t	ransects, importa	ant features, etc.
Hydrophytic Vege	etation Present?	Yes	1 X	No	Is the Samp	led Area	_	
Hydric Soil Preser		Yes		No	within a Wet		Yes X	No
Wetland Hydrolog		Yes		No	If yes, option	nal Wetland Site ID	D: AX	
HYDROLOGY								
	Indiantoro						O-sandari Indicatora (	(
Wetland Hydrolo								(minimum of two required)
-	•	e is required; check					Surface Soil Cracks (	
Surface Water				ater-Stained Leave		<u>X</u>		•
High Water T			· <del></del>	uatic Fauna (B13)		<u>x</u>	•	
Saturation (A				arl Deposits (B15)	(04)		Dry-Season Water Ta	•
X Water Marks				drogen Sulfide Od		(00)	Crayfish Burrows (C8	
Sediment De				idized Rhizosphere		s (C3)	Saturation Visible on	
Drift Deposits	-		_	esence of Reduced	` '	<del></del>	Stunted or Stressed I	,
Algal Mat or I				cent Iron Reductio in Muck Surface (C	•	C6) <u>X</u>	Geomorphic Position Shallow Aguitard (D3	
l <del></del>	s (B5) /isible on Aerial Im	2220v (R7)		her (Explain in Ren	•		• ` `	,
	getated Concave S			iei (Exhiain in izen	liaiks)	_	Microtopographic Re FAC-Neutral Test (D	
		Juliace (Do)				<del></del>	TAO-NGUIIAI 1001 (DI	
Field Observation Surface Water Pre		Yes No	¥ D.	onth (inches):				
Water Table Prese		Yes No		epth (inches):		Wotland Hyd	Irology Present?	Yes X No
Saturation Presen		Yes No				Welland Hyd	Tology Fresent:	ies A No
(includes capillary		Yes No		eptri (inches).				
	<u> </u>	auge, monitoring w	vell. aerial p	ohotos, previous in	spections), if avai	Liable:		
					<b>OP</b>			
Remarks:								

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Quercus palustris	70	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC	: 3 (A)
2.				That file OBE, I flow, of I flo	·(^/)
3				Total Number of Dominant Species Across All Strata:	3 (B)
				·	(2)
4			. ——	Percent of Dominant Species That Are OBL, FACW, or FAC	: 100 (A/B)
5				, ,	` ,
6				Prevalence Index worksheet	:
7				Total % Cover of:	Multiply by:
	= 70=	= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x = 160
Rhamnus cathartica	25	Yes	FAC		x 3 = 75 x 4 = 0
2				UPL species 0	
3.				Column Totals: 105	
4				Totalo. 100	(i) (b)
5				Prevalence Index = B/A	= 1.52
6.				Hydrophytic Vegetation Indi	cators:
7				1 - Rapid Test for Hydrop	
		-		X 2 - Dominance Test is >5	
	25	= Total Cove	r	X 3 - Prevalence Index is ≤	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adapta data in Remarks or or	
Phalaris arundinacea	10	Yes	FACW		
2			. ——	Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
4				be present, unless disturbed o	r 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.
Q				Sapling/shrub – Woody plant	s less than 3 in. DBH
0				and greater than or equal to 3.	28 ft (1 m) tall.
9				Herb – All herbaceous (non-w	oody) plants, regardless of
10.				size, and woody plants less the	an 3.28 ft tall.
11				Woody vines – All woody vine	es greater than 3.28 ft in
12			· ——	height.	
	10	= Total Cove	r		
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3.				Present? Yes	_X No
4					
		= Total Cove			
	0	= 10(a) COV	<del>2</del> 1		
Remarks: (Include photo numbers here or on a separa	te sneet.)				

SOIL Sampling Point: DP-AX Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Loc<sup>2</sup> Type<sup>1</sup> Color (moist) Color (moist) Texture Remarks (inches) 10YR 3/2 95 7.5YR 5/6 Clay 0-4 7.5YR 5/6 10YR 3/1 70 4-13 Clay 10YR 4/1 7.5YR 5/6 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AX- View facing North



Wetland AX- Soils

Segment 10 – Package 6

## **SITE PHOTOGRAPHS**

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

Applicant/Owner: CHA State: NY Sampling Point: DP-AX-Upland  Applicant/Owner: CHA Section, Township, Range: Catskill  Andform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 3  Bubregion (LRR or MLRA): LRR R Lat: 42.261837°N Long: -73.851420°W Datum: NAD83  Boil Map Unit Name: Co - Covington and Madalin soils NVII classification: NVII clas
Are Vegetation, Soil, or Hydrologynaturally problematic?
Local relief (concave, convex, none): Convex Slope (%): 3 Subregion (LRR or MLRA): LRR R Lat: 42.261837°N Long: -73.851420°W Datum: NAD83 Soil Map Unit Name: Co - Covington and Madalin soils NWI 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 significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X
Subregion (LRR or MLRA): LRR R Lat: 42.261837°N Long: -73.851420°W Datum: NAD83  Soil Map Unit Name: Co - Covington and Madalin soils NWI 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 significantly disturbed? Are "Normal Circumstances" present? Yes X No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No X
Soil Map Unit Name: Co - Covington and Madalin soils NWI 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 significantly disturbed? Are "Normal Circumstances" present? Yes X No (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 within a Wetland? Yes No X
Are climatic / hydrologic conditions on the site typical for this time of year? Yes
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? YesX No
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  No  X  Wes  No  X  Ves  No  No  X  Ves  No  No  No  X  Ves  No  No  No  No  No  No  No  No  No  N
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Yes NoX Is the Sampled Area within a Wetland?  Yes NoX Within a Wetland?
Hydrophytic Vegetation Present? Yes No X Is the Sampled Area Hydric Soil Present? Yes No X within a Wetland? Yes No X
Hydric Soil Present? Yes No X within a Wetland? Yes No X
Hydric Soil Present? Yes No X within a Wetland? Yes No X
——————————————————————————————————————
7.7.1
Remarks: (Explain alternative procedures here or in a separate report.) Upland Data Point for PFO wetland AX located on slight hillslope adjacent to railroad bed and wooded area
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B13)  Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hvgroden Suitide Odor (C1) Craytish Burrows (C8)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)  Drift Deposits (B3)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)
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) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  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)
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) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations:  Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
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)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Drift Deposits (C3)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Dxidized 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)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):
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Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Dxidized 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)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):
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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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Sediment Deposits (B2)
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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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?  Yes  No  X  Depth (inches):  Water Table Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  X  Depth (inches):  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Factorial Hydrology Present?  Yes  No  X  Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:
Quercus palustris		Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
		100	171011	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.7 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	10 =	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 10 x 2 = 20
Rhamnus cathartica	10	Yes	FAC	FAC species <u>20</u> x 3 = <u>60</u>
				FACU species 105 x 4 = 420
2				UPL species <u>0</u> x 5 = <u>0</u>
3				Column Totals: <u>135</u> (A) <u>520</u> (B)
4				
5				Prevalence Index = B/A = 3.85
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	10	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
,				data in Remarks or on a separate sheet)
1. Lolium perenne	85	Yes	FACU	4
2. Galium boreale	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Solidago canadensis	20	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
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.
	115	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.				
				Hydrophytic
2	-			Vegetation
3				Present? Yes NoX
4				
	0	= Total Cover	•	
Remarks: (Include photo numbers here or on a separate sheet.)				
No hydrophytic vegetation found at data point				

Sampling Point: DP-AX-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Texture Remarks (inches) % 10YR 2/1 100 Loam Gravel refusal <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Depth (inches): 5 Hydric Soil Present? Yes Remarks: Could not dig past 5 inches due to gravel refusal, no hydric soils present at data point

SOIL



**Upland AX- View facing North** 



**Upland AX- Soils** 

Segment 10 – Package 6

## SITE PHOTOGRAPHS

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

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	Sampling Date:	November 18, 2021			
Applicant/Owner:	CHA			State:	NY	Sampling Point:	DP-AX			
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range: Cat	tskill				
Landform (hillslope,		Depression			f (concave, convex, none):		Slope (%): 1			
, ,		LRR R		Lat: 42.277709		3.844824 °W	Olope (76)			
Subregion (LRR or Note: Soil Map Unit Name		on and Madalin soi	ile	Lat. 42.211100	N Long10		Mapped			
•				-0.1/22	V No		маррец			
Are climatic / hydrole	_		-			(If no, explain in Remarks.)	· · · · · · · · · · · · · · · · · · ·			
		, or Hydrology					Yes X No			
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	(If needed, e	explain any answers in Remarks.)				
SUMMA	ARY OF FINDI	INGS – Attach	site map	showing sam	pling point location	ns, transects, important	features, etc.			
Hydrophytic Vege	etation Present?	Yes _	X No		Is the Sampled Area					
Hydric Soil Preser	nt?	Yes	X No		within a Wetland?	Yes X No				
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional Wetland	Site ID: AX	_			
HYDROLOGY										
	Indicatore					Secondary Indicators (mini	of two required)			
Wetland Hydrolo		' iradi ahaal	-!! that apply)	١		Secondary Indicators (minin	mum or two requirea)			
-	•	e is required; check				Surface Soil Cracks (B6)				
Surface Water T				r-Stained Leaves (E	39)	X Drainage Patterns (B10)				
X High Water T X Saturation (A			<del></del>	ic Fauna (B13) Deposits (B15)		Moss Trim Lines (B16)	(02)			
Water Marks	-			ogen Sulfide Odor (	(C1)	Dry-Season Water Table (C2)				
Sediment De				-	on Living Roots (C3)	Crayfish Burrows (C8)  (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits				nce of Reduced Iro	= ' '	Stunted or Stressed Plants (D1)				
Algal Mat or				nt Iron Reduction in	• •					
Iron Deposits				Muck Surface (C7)		Shallow Aquitard (D3)				
l —	isible on Aerial Im	nagery (B7)		(Explain in Remark		Microtopographic Relief (D4)				
l <del></del>	getated Concave S				,	FAC-Neutral Test (D5)	,			
Field Observation	ns:									
Surface Water Pre	esent?	Yes No	X Depth	n (inches):						
Water Table Prese	ent?	Yes X No	Depth	n (inches): 16	Wetlan	d Hydrology Present? Yes	X No			
Saturation Presen	ıt?	Yes X No	Depth	n (inches): 5						
(includes capillary	<u> </u>									
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aerial phot	.os, previous inspe	ections), if available:					
Remarks:										

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.		ороског.	<u> </u>	Number of Dominant Species	
				That Are OBL, FACW, or FAC:(A)	
2.				Total Number of Dominant	
3	<del></del>			Species Across All Strata: 1 (B)	
4				Percent of Dominant Species	D)
5				That Are OBL, FACW, or FAC:1 (A/	3)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		Total Cover		OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 100 x 2 = 200	
1				FAC species <u>0</u> x 3 = <u>0</u>	
2.				FACU species <u>0</u> x 4 = <u>0</u>	
3.				UPL species <u>0</u> x 5 = <u>0</u>	
				Column Totals: <u>100</u> (A) <u>200</u> (E	3)
4				Prevalence Index = B/A = 2	
5					
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%	
	0	= Total Cover		$\times$ 2 - Bolimance Test is >50% $\times$ 3 - Prevalence Index is <3.01	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
Phragmites australis	100	YES	FACW	data in Remarks or on a separate sheet)	
2.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
				be present, unless disturbed or problematic.	
4.					
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.					
12.				Woody vines – All woody vines greater than 3.28 ft in height.	
	0	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1.					
' · -				Hydrophytic	
2				Vegetation	
3				Present? Yes X No	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate	sheet.)				
Large Phragmites stand					

SOIL Sampling Point: DP-AX Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Loc<sup>2</sup> Type<sup>1</sup> Color (moist) Color (moist) Texture Remarks (inches) 10YR 4/1 90 7.5YR 5/6 Clay 0-8 7.5YR 5/6 10YR 3/1 70 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AX- View facing North



Wetland AX- Soils

Segment 10 – Package 6

## SITE PHOTOGRAPHS

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

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	<u> </u>	Sampling Da	ate: November 18, 2021		
Applicant/Owner:	CHA			State:	NY		Sampling Poir	nt: DP-AX		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	: Catskill	<del></del>			
Landform (hillslope,		Depression			of (concave, conv		Concave	Slope (%): 1		
Subregion (LRR or I	,	LRR R		Lat: 42.261903	•	ong: -73.85143		Datum: NAD83		
Soil Map Unit Name	•	on and Madalin soi	nile	Lat: 42.201903	J'IN L	.ong: -/ 3.00 140		Not Mapped		
•					X No	(If no	-	истипаррец		
Are Climatic / hydrolo	-		-				, explain in Remarks.)	V V No		
				nificantly disturbed			mstances" present?	Yes No		
				turally problematic?		•	any answers in Remark ansects, importa	•		
30 WINT	TRI OF FIND	MGS - Allaci	1 Sile map	Showing sam		locations, ii	ansects, importa	III leatures, etc.		
Hydrophytic Vege	tation Present?	Yes _	X No		Is the Sample within a Wetla		Yoo Y N	I.		
Hydric Soil Preser		Yes _	X No		4			lo		
Wetland Hydrolog Remarks: (Explain a		Yes _	X No		If yes, optional	Wetland Site ID:	: <u>AX</u>			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Indicators (n	minimum of two required)		
Primary Indicators	(minimum of one	e is required; check	all that apply	)			Surface Soil Cracks (I	•		
Surface Water				r-Stained Leaves (E	B9)	_	Drainage Patterns (B	·		
X High Water T				tic Fauna (B13)		_	Moss Trim Lines (B16)			
X Saturation (A	-			Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks Sediment De				ogen Sulfide Odor ( zed Rhizospheres (		Crayfish Burrows (C8) s (C3) Saturation Visible on Aerial Imagery (C9)				
Sediment De Drift Deposits				zed Rhizospheres of ence of Reduced Iro		Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)				
Algal Mat or				ence of Reduced Iro nt Iron Reduction ir	-	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits				Muck Surface (C7)	· ·	Shallow Aquitard (D3)				
l —	isible on Aerial Im	nagery (B7)		r (Explain in Remar		Microtopographic Relief (D4)				
l <del></del>	getated Concave S			( <u>=</u> l	,,,,	<u> </u>	FAC-Neutral Test (D5			
Field Observation								<u>,                                      </u>		
Surface Water Pre	esent?	Yes No	X Dept	th (inches):						
Water Table Prese	ent?	Yes X No	Dept	th (inches): 8		Wetland Hydr	rology Present? Y	res <u>X</u> No		
Saturation Presen		Yes X No	Dept	th (inches): 5						
(includes capillary	<u> </u>			<u> </u>						
Describe Recorde	d Data (stream ga	auge, monitoring w	rell, aerial pho	otos, previous inspe	ections), if availa	ible:				
Remarks:										

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Domin			
1				That Are OBL, FA		1	(A)
2				Total Number of [	Dominant		
3				Species Across A		1	(B)
4.				Percent of Domin	ant Species		
5				That Are OBL, FA		100	(A/B)
6.				Prevalence Inde		A4 10 1 1	
7				Total % Cov		Multiply by:	_
	=	= Total Cover		OBL species		x 1 = 20	
Sapling/Shrub Stratum (Plot size: 15 ft.)	<del></del>			FACW species		$x = \frac{170}{2}$	
Phalaris arundinacea	85	Yes	FACW	FAC species		x 3 = 0	
2. Scirpus cyperinus	20	No	OBL	FACU species		x 4 = 0	
3.				UPL species Column Totals:		x = 0	
4.				Column Totals:	105	(A) <u>190</u>	_ (D)
				Prevalence	Index = B/A =	1.8	
5							
6				Hydrophytic Veg X 1 - Rapid Te	_		
7				X 2 - Dominan		=	
	105	= Total Cover		X 3 - Prevalen			
Herb Stratum (Plot size: 5 ft.)						ns <sup>1</sup> (Provide supporting	g
1				data in R	Remarks or on a	separate sheet)	
2.				Problematic	Hydrophytic Ve	getation <sup>1</sup> (Explain)	
				1.		land hydrology must	
3				be present, unles		,	
4				be present, unies	3 distance of p	Tobicinatio.	
5				Definitions of Ve	egetation Strata	a:	
6. <u> </u>				1	-	n) or more in diameter	
7				at breast height (I	DBH), regardles	ss of height.	
8.				Sapling/shrub –	Woody plants le	ess than 3 in. DBH	
9.				and greater than	or equal to 3.28	ft (1 m) tall.	
				Herb - All herbad	ceous (non-woo	dy) plants, regardless	of
10.				size, and woody p	plants less than	3.28 ft tall.	
11.	<del></del>				ıll woody vines (	greater than 3.28 ft in	
12				height.			
	0	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1							
2.				Hydrophytic			
-				Vegetation	.,	Υ	
3				Present?	Yes _	X No	
4							
	0	= Total Cove	r				
Remarks: (Include photo numbers here or on a separate sh	neet.)						

SOIL Sampling Point: DP-AX Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Loc<sup>2</sup> Type<sup>1</sup> Color (moist) Color (moist) Texture Remarks (inches) 10YR 3/2 95 7.5YR 5/6 Clay 0-7 10YR 3/1 7.5YR 5/6 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AX- View facing North



Wetland AX- Soils

Segment 10 – Package 6

## SITE PHOTOGRAPHS

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

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	e	Sampling Date:	November 18, 2021	
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-AX-Upland	
Investigator(s):	Tristen Peterson			Section, T	ownship, Range	e: Catskill	_		
Landform (hillslope,		Terrace						Slope (%): 1	
,	•				f (concave, con				
Subregion (LRR or I	-	LRR R		Lat: 42.282595	5°N	Long: -73.843253°W		Datum: NAD83	
Soil Map Unit Name	: Co- Covingto	on and Madalin soi	ils			NWI cla	ssification: Not N	Mapped	
Are climatic / hydrol	ogic conditions on	the site typical for	this time of yea	ar? Yes	<u>X</u> N	o (If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	1? A	Are "Normal Circumstances	s" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic	? (I	f needed, explain any ans	wers in Remarks.)		
SUMMA	ARY OF FIND	NGS – Attach	າ site map s	showing sam	npling point	locations, transec	ts, important t	features, etc.	
Hydrophytic Vege	station Present?	Yes	No	х	Is the Sample	ad Araa			
Hydric Soil Prese		Yes	No	X	within a Wet		No No	X	
Wetland Hydrolog		Yes	No		If ves, optiona	al Wetland Site ID:			
HYDROLOGY	_		_	_	_		_		
Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minir	num of two required)	
Primary Indicators	s (minimum of one	is required; check	( all that apply)			Surface	e Soil Cracks (B6)		
Surface Wate	er (A1)		Water-S	Stained Leaves (	B9)	Draina	ge Patterns (B10)		
High Water 1	Γable (A2)		Aquatic	Fauna (B13)		Moss T	rim Lines (B16)		
Saturation (A	43)		Marl De	eposits (B15)		Dry-Season Water Table (C2)			
Water Marks	; (B1)		Hydrog	en Sulfide Odor	(C1)	Crayfis	h Burrows (C8)		
Sediment De	posits (B2)		Oxidize	ed Rhizospheres	on Living Roots				
Drift Deposits	s (B3)		Present	ce of Reduced In	on (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or	Crust (B4)		Recent	Iron Reduction in	n Tilled Soils (C	(C6) Geomorphic Position (D2)			
Iron Deposits	s (B5)		Thin Mu	uck Surface (C7)		Shallov	v Aquitard (D3)		
	isible on Aerial Im	. ,	Other (	Explain in Remar	rks)		pographic Relief (I	D4)	
Sparsely Ve	getated Concave S	Surface (B8)				FAC-N	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 P	resent? Yes	NoX	
Saturation Presen		Yes No	X Depth	(inches):					
(includes capillary				<del> </del>					
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aerial photo	s, previous inspe	ections), if avail	able:			
Remarks:									
No wetland hydi	rology present a	ıt data point							

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:
Juniperus virginiana	10	Yes	FACU	Number of Dominant Species
		163	1 700	That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	10	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>15</u> x 2 = <u>30</u>
1				FAC species <u>0</u> x 3 = <u>0</u>
2.				FACU species <u>80</u> x 4 = <u>320</u>
3.				UPL species <u>30</u> x 5 = <u>150</u>
4				Column Totals: <u>125</u> (A) <u>500</u> (B)
4				Prevalence Index = B/A = 4
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 <sup>1</sup>
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Centaurea stoebe	30	Yes	UPL	data in Remarks or on a separate sheet)
2. Lolium perenne	60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Solidago canadensis				be present, unless disturbed or problematic.
4. Phalaris arundinacea		No	FACW	
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
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.
12.		<del></del>		neight.
	115	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				
2				Hydrophytic Vegetation
3.				Present? Yes NoX
4.				
	0	= Total Cover		
Demontra (Include photo numbero boro er en e constato chest.)		= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL Sampling Point: DP-AX-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Texture Remarks (inches) % 10YR 3/2 100 Clay 0-6 10YR 3/2 7.5YR 5/6 6-13 98 10YR 3/1 7.5YR 5/6 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Hydric Soil Present? Yes Depth (inches): Remarks: No hydric soils present at data point



**Upland AX- View facing South** 



**Upland AX- Soils** 

Segment 10 – Package 6

## SITE PHOTOGRAPHS

#### **U.S. Army Corps of Engineers**

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

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

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

Project/Site: CHPE	(	City/County: Athens	/Greene	Sampling Date: 12/1/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P6-0-11 Wet			
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:	<u> </u>			
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	x, none): concave	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 42-15-09.56N	•	73-51-16.47W	 Datum: WGS84			
Soil Map Unit Name: Covington and Madalin		5	NWI classification:	PSS			
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)			
			` `				
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese				
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•			
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	1			
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No			
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:				
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Shrub swamp							
HYDROLOGY							
			2 Ludia Aan (n	· · · · · · · · · · · · · · · · · · ·			
Wetland Hydrology Indicators:	ad about all that apply)			ninimum of two required)			
Primary Indicators (minimum of one is require X Surface Water (A1)	X Water-Stained Leaves (B	20)	Surface Soil Cracks Drainage Patterns (				
X High Water Table (A2)	Aquatic Fauna (B13)	9)	Moss Trim Lines (B	•			
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C				
Sediment Deposits (B2)	Oxidized Rhizospheres or	· ·		n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	• , ,	Stunted or Stressed	=			
Algal Mat or Crust (B4)	Recent Iron Reduction in						
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	) Other (Explain in Remarks	ks)Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (	D5)			
Field Observations:							
Surface Water Present? Yes x	No Depth (inches): _	1					
Water Table Present? Yes x	No Depth (inches): _	6					
Saturation Present? Yes x	No Depth (inches): _	0 Wetlan	d Hydrology Present?	Yes <u>X</u> No			
(includes capillary fringe)	20 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	9.11				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), ii	available:				
Remarks:							

### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant Species
2. Rhamnus cathartica	2	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
i				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 60.0% (A/B
·				Prevalence Index worksheet:
	7	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
. Fraxinus pennsylvanica	20	No	FACW	FACW species 95 x 2 = 190
Cornus amomum	70	Yes	FACW	FAC species17 x 3 =51
. Cornus racemosa	10	No	FAC	FACU species10 x 4 =40
Rhamnus cathartica	5	No	FAC	UPL species0 x 5 =0
Lonicera tatarica	5	No	FACU	Column Totals: 122 (A) 281 (B
i				Prevalence Index = B/A = 2.30
·				Hydrophytic Vegetation Indicators:
	110	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
. Lonicera tatarica	5	Yes	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Sphagnum moss species	10	Yes		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
l				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.				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				<b>Herb</b> – All herbaceous (non-woody) plants, regardles
	15	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Voody Vine Stratum</u> (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
				height.
<u> </u>				
3.				Hydrophytic Vegetation
l				Present? Yes X No
· · · · · · · · · · · · · · · · · · ·		=Total Cover		

SOIL Sampling Point P6-O-11 Wet

		o the de	-			ator or co	onfirm the absence of in	ndicators.)
Depth	Matrix	0/		x Featur		1 - 2	T 4	Damarila
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1	80	10YR 5/6	10	<u> </u>	M	Loamy/Clayey	Prominent redox concentrations
			10YR 6/3	10	<u>C</u>	M		Distinct redox concentrations
12-16	10YR 2/1	100					Loamy/Clayey	
			-					
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	 ∕/=Reduced Matrix, M	 1S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Hydric Soil I			,					Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Dark Surface (	S7)			2 cm Muck	(A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Prai	rie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	tic (A3)		MLRA 149B	)			5 cm Muck	sy Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	I <b>49B</b> ) Polyvalue I	Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		anese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Loamy Gleyed		F2)			Floodplain Soils (F19) (MLRA 149B)
	odic (A17)		X Depleted Matri					t Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su					ow Dark Surface (F22)
I — '	ucky Mineral (S1)		Depleted Dark				Other (Exp	lain in Remarks)
·	eyed Matrix (S4) edox (S5)		Marl (F10) (LR		0)		<sup>3</sup> Indicators	of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MI F	2Δ 145)		hydrology must be present,
	watrix (00)			itoriai (i	21) ( <b>IVIL</b> I	UA 140)		isturbed or problematic.
Restrictive L	ayer (if observed):							'
Type:	none	)						
Depth (in	ches):						Hydric Soil Present?	? Yes X No
Remarks:							<u> </u>	



Wetland P6-O-11- View facing north



Wetland P6-O-11- Soils

Segment 10

# **SITE PHOTOGRAPHS**

#### **U.S. Army Corps of Engineers**

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

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

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

Project/Site: CHPE Package 6 - Segment 10	City/County:	Athens/Greene	Sampling Date: 12-2-22			
Applicant/Owner: TDI		State: NY	Sampling Point: Wet P6-0			
Investigator(s): C. Scrivner and C. Einstein	Sec	tion, Township, Range:				
Landform (hillside, terrace, etc.): Flat	•	e, convex, none): None	Slope %: 0			
	.25756°N	Long: -73.85298°W	Datum: WGS84			
Soil Map Unit Name: Co: Covington and Madalin soils	.23730 N	NWI classification:	PEM1			
·						
Are climatic / hydrologic conditions on the site typical for this	· ·		explain in Remarks.)			
Are Vegetation, Soil, or Hydrologysig	nificantly disturbed? Ai	re "Normal Circumstances" prese	ent? Yes x No			
Are Vegetation, Soil, or Hydrologynat	turally problematic? (If	needed, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach site map s	howing sampling poir	nt locations, transects, ir	mportant features, etc.			
Hydrophytic Vegetation Present? Yes X N	lo Is the Sam	pled Area				
	lo within a W	•	No			
Wetland Hydrology Present? Yes X N	lo If yes, option	onal Wetland Site ID: Wetland	P6-O			
Remarks: (Explain alternative procedures here or in a sepa						
Persistent palustrine emergent marsh dominated by reed ca	anary grass.					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil Cracks	s (B6)			
Surface Water (A1) Water-St	ained Leaves (B9)	Drainage Patterns (	(B10)			
X High Water Table (A2) Aquatic F	auna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) Marl Dep	osits (B15)	Dry-Season Water	Table (C2)			
Water Marks (B1) Hydroger	n Sulfide Odor (C1)	Crayfish Burrows (C	C8)			
Sediment Deposits (B2) Oxidized	Rhizospheres on Living Root	s (C3)Saturation Visible o	n Aerial Imagery (C9)			
Drift Deposits (B3) Presence	e of Reduced Iron (C4)	Stunted or Stressed	d Plants (D1)			
Algal Mat or Crust (B4) Recent Ir	on Reduction in Tilled Soils (	· ·				
Iron Deposits (B5) Thin Muc	ck Surface (C7)	Shallow Aquitard (D	03)			
<u> </u>	xplain in Remarks)	Microtopographic R	elief (D4)			
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I	D5)			
Field Observations:						
	Depth (inches):					
	Depth (inches): 12					
Saturation Present? Yes X No No	Depth (inches): 4	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspecti	ons), if available:				
Damada						
Remarks:						

### **VEGETATION** – Use scientific names of plants.

<b>VEGETATION</b> – Use scientific names of pla	ants.			Sampling Point: Wet P6-O
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				(,,
4				Total Number of Dominant Species Across All Strata: 1 (B)
5				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
1. Phalaris arundinacea	98	Yes	FACW	FACW species 98 x 2 = 196
2. Lotus corniculatus	2	No	FACU	FAC species 0 x 3 = 0
3.				FACU species 2 x 4 = 8
4.				UPL species 0 x 5 = 0
5.				Column Totals: 100 (A) 204 (B)
6.				Prevalence Index = B/A = 2.04
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2				data in Remarks or on a separate sheet)
3				Drahlamatic Lludraphytic Varatation 1 (Funcia)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
10.				Continue (about Was du planta lace there 2 in DDI)
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Understadie
3.				Hydrophytic Vegetation
4.				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			1
` '	,			

SOIL Sampling Point: Wet P6-O

Depth	Matrix	tne dep		ment tn x Featur		tor or coi	nfirm the absence of i	indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	S
0-11	10YR 2/1	100					Loamy/Clayey			
11-18	10YR 5/1	80	10YR 4/6	20	С	M	Loamy/Clayey	Prominent r	redox co	ncentrations
1Type: C-Cc	oncentration, D=Deple	tion RM-	-Reduced Matrix M	——— S–Mask	ed Sand	Grains	<sup>2</sup> Location: Pl	L=Pore Lining,	M-Matri	<u> </u>
Hydric Soil I		tion, reivi-	-reduced Matrix, M	<u>J-Mask</u>	ca Garia	Oranis.		or Problematic		
Histosol			Dark Surface (	S7)				ck (A10) ( <b>LRR</b>	-	
	pipedon (A2)		Polyvalue Belo	•	ce (S8) ( <b>I</b>	RR R,		airie Redox (A		•
Black His			MLRA 149B		, , ,	•		cky Peat or Pea		
	n Sulfide (A4)		Thin Dark Surfa		(LRR R	MLRA 1		e Below Surfac		
	Layers (A5)		High Chroma S					k Surface (S9)		
	Below Dark Surface	(A11)	Loamy Mucky I					ganese Masse		
	rk Surface (A12)	,	Loamy Gleyed			, ,		-		(MLRA 149B)
	podic (A17)		Depleted Matrix		,					side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		<del>-</del> 6)			allow Dark Surfa		
•	lucky Mineral (S1)		Depleted Dark					xplain in Rema		-,
	leyed Matrix (S4)		Redox Depress		` '			Apiair ii reoma	110)	
	edox (S5)		Marl (F10) (LR	•	0)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
	Matrix (S6)		Red Parent Ma		21) <b>(MLR</b>	RA 145)				
Restrictive L	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Presen	it? Yes	s <u>X</u>	No
Remarks:										



Wetland P6-O - View facing south/southeast



Wetland P6-O - Soils

Segment 10

# SITE PHOTOGRAPHS

#### U.S. Army Corps of Engineers

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

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

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

Project/Site: CHPE	(	City/County: Athens/	Greene	Sampling Date: 12/1/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P6-0-11 Upl			
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 42-15-09.36N	•	73-51-16.72W	Datum: WGS84			
Soil Map Unit Name: Covington and Madalin		5	NWI classification:	<del></del>			
Are climatic / hydrologic conditions on the site	· · ·	Yes x		explain in Remarks.)			
, ,	,		` ` `	,			
Are Vegetation, Soilx_, or Hydrol			nal Circumstances" prese				
Are Vegetation, Soil, or Hydrol			d, explain any answers in				
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea	1			
Hydric Soil Present?	Yes No	within a Wetland		No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID:				
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
pathway with gravel fill							
HYDROLOGY							
Wetland Hydrology Indicators:	······································			minimum of two required)			
Primary Indicators (minimum of one is require		20)	Surface Soil Cracks				
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9 Aquatic Fauna (B13)	9)	Drainage Patterns ( Moss Trim Lines (B				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C						
Sediment Deposits (B2)	Oxidized Rhizospheres or	· ·		on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed				
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	Geomorphic Position				
Iron Deposits (B5)	Thin Muck Surface (C7)	, ,	Shallow Aquitard (D				
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remarks	s)	Microtopographic R				
Sparsely Vegetated Concave Surface (B	(8)		FAC-Neutral Test (I	D5)			
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _ X _			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							
Remarks.							

### **VEGETATION** – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Tree Stratum (Plot size:30')			Status	Dominance rest worksneet.			
2. Rhamnus cathartica	5	<u>Yes</u>		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)			
·				Total Number of Dominant Species Across All Strata: 4 (B)			
i							
i.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B			
·.				Prevalence Index worksheet:			
	5	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15'	)			OBL species 0 x 1 = 0			
. Rhamnus cathartica	5	Yes	FAC	FACW species 0 x 2 = 0			
. Cornus racemosa	5	Yes	FAC	FAC species 20 x 3 = 60			
3.				FACU species60 x 4 =240			
				UPL species0 x 5 =0			
i.				Column Totals: 80 (A) 300 (B			
i				Prevalence Index = B/A = 3.75			
·				Hydrophytic Vegetation Indicators:			
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%			
. Cornus racemosa	5	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Galium boreale	5	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Plantago lanceolata	5	No	FACU	data in Remarks or on a separate sheet)			
. Fragaria virginiana	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Poa pratensis	50	Yes	FACU	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			
11				and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardles:			
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size:30'	)			Woody vines – All woody vines greater than 3.28 ft in			
l				height.			
				Hudrophytia			
3.				Hydrophytic Vegetation			
				Present?         Yes         No _ X			
i		=Total Cover					

SOIL Sampling Point P6-O-11 Upl

Depth	Matrix	o tne ae		x Featur		ator or co	onfirm the absence	ot indica	itors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	narks
										_
<sup>1</sup> Type: C=Cor	ncentration, D=Deple	etion, RM	I=Reduced Matrix, I	ΛS=Mas	ked San	d Grains.	<sup>2</sup> Location:	PL=Pore	Lining, M=	Matrix.
Hydric Soil In	dicators:						Indicators	for Prob	lematic Hy	dric Soils³:
Histosol (/	A1)		Dark Surface	(S7)			2 cm M	luck (A10	) ( <b>LRR K, L</b>	L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Beld	ow Surfa	ce (S8) (	LRR R,	Coast I	Prairie Re	edox (A16) (	(LRR K, L, R)
Black Hist	tic (A3)		MLRA 149E	3)			5 cm M	lucky Pe	at or Peat (S	S3) ( <b>LRR K, L, R</b> )
Hydrogen	Sulfide (A4)		Thin Dark Sur	face (S9)	) (LRR R	, MLRA 1	149B) Polyval	ue Belov	v Surface (S	88) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma						ce (S9) ( <b>LR</b>	
	Below Dark Surface	(A11)	Loamy Mucky							12) ( <b>LRR K, L, R</b> )
	k Surface (A12)	,	Loamy Gleyed			, ,		-	-	(F19) ( <b>MLRA 149B</b> )
Mesic Spo	` '		Depleted Matr		. –/					outside MLRA 145
	144A, 145, 149B)		Redox Dark S		-6)				ark Surface	
	icky Mineral (S1)		Depleted Dark						n Remarks)	
	eyed Matrix (S4)		Redox Depres		, ,		Other (	LAPIAIII	ii iteiliaiks)	
	• , ,			•	0)		3 Indian	era of by	dranhytia y	egetation and
Sandy Re			Marl (F10) ( <b>LF</b>		:04\ <b>/M</b> I I	24.45)				
Stripped in	Matrix (S6)		Red Parent Ma	ateriai (F	21) (IVILI	KA 145)		-	ology must b	
5	// <b>C</b> 1 1)						unies	s distur	ed or proble	ematic.
	ayer (if observed):									
Type:	grave	el								
Depth (inc	ches):	0					Hydric Soil Prese	ent?	Yes	No
Remarks:	·						L			
No soils- grave	el fill.									



Upland P6-O-11- View facing west



**Upland P6-O-11- Soils** 

# **Segment 10**

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	son Express			City/Count	ity: Greene	е	Samp	ling Date:	November 18, 2021	
Applicant/Owner:	CHA				State:	NY		Sampl	ling Point:	DP-AZ	
Investigator(s):	Tristen Peterson	1			Section, To	ownship, Range	e: Catskill				
						(concave, conv		Concove		Slone (%): 1	
Landform (hillslope,		Depression				•	,	Concave		Slope (%): 1	
Subregion (LRR or I	MLRA):	LRR R			Lat: 42.261289°	N L	Long: -73.85156	61°W		Datum: NAD83	
Soil Map Unit Name	: Co- Covingto	on and Madalin soi	ls					NWI classification	on: Not N	Mapped	
Are climatic / hydrole	ogic conditions or	the site typical for	this time	of yea	ır? Yes	X No	o (If no	o, explain in Rem	arks.)		
Are Vegetation	, Soil	, or Hydrology		_signif	icantly disturbed	? A	re "Normal Circu	ımstances" prese	nt?	Yes <b>X</b> No	
Are Vegetation	, Soil	, or Hydrology		_natur	ally problematic?	(If	f needed, explain	any answers in	Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	ı site m	nap s	howing sam	pling point	locations, tr	ransects, im	portant f	features, etc.	
Hydrophytic Vege	etation Present?	Yes	X	No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	X	No		within a Wetla		Yes X	No		
Wetland Hydrolog		Yes _	X	No		If yes, optiona	I Wetland Site ID	D: AZ			
Remarks: (Explain a		dures here or in a so				adjacent to I	arge open field	1			
	. •					,,	5 · · · · ·	-			
HYDROLOGY											
Wetland Hydrolo	gy Indicators:						_	Secondary Indica	ators (minir	mum of two required)	
Primary Indicators	s (minimum of one	e is required; check	all that a	ipply)				Surface Soil Co	racks (B6)	_	
Surface Wate	er (A1)		X	Vater-S	Stained Leaves (B	39)	Х	Drainage Patte	erns (B10)		
High Water T					Fauna (B13)	•	_	Moss Trim Line			
Saturation (A	<del>1</del> 3)				eposits (B15)			Dry-Season Water Table (C2)			
Water Marks	•				en Sulfide Odor (0	C1)	<del>-</del>	Crayfish Burro		•	
Sediment De				-	d Rhizospheres o	•					
Drift Deposits			_		ce of Reduced Iro	_		Stunted or Stre			
Algal Mat or					Iron Reduction in	` ,	6) X			,	
Iron Deposits	` '				uck Surface (C7)	1 111100 000 (=	<u>.                                      </u>	Shallow Aquita		,	
	s (B3) /isible on Aerial Im	2220n/ (R7)			Explain in Remark	ka)		Microtopograpi		D4)	
	getated Concave S		<u> </u>	ינווכו (ב	:хріані ін іхеніан	(5)		FAC-Neutral To		D4)	
		- Juliaco (20,						1710			
Field Observation Surface Water Pre		Yes No	X	Denth :	(inches):						
		·					Motional Hyd		Yos	V No	
Water Table Prese		Yes No			(inches):		Wetland Hyd	Irology Present?	/ 1es	XNo	
Saturation Presen		Yes No	<u> </u>	Deptn (	(inches):						
(includes capillary	<u> </u>	auge, monitoring w	oll perial	hhoto	o provious inspe	ections) if avails	ahlo:				
Describe Records	M Dala (Sileain ge	auge, monitoring w	ell, acriai	μισισι	s, pievious mapo	Cliuis), ii avaiic	ible.				
Remarks:											

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	t worksheet:	
,		Сросиос.	<u> </u>	Number of Domin		4 (4)
1				That Are OBL, F	ACVV, or FAC:	1(A)
2				Total Number of		
3				Species Across A	All Strata:	1(B)
4				Percent of Domir		
5				That Are OBL, F	ACW, or FAC:	(A/B)
6						
7				Prevalence Inde		Multiply by:
		= Total Cover		OBL species		x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species		x 2 = 200
				FAC species		x 3 = 0
1				FACU species	·	x 4 = 0
2				UPL species		x 5 = 0
3				Column Totals:	100	
4						(2)
5.				Prevalence	e Index = B/A =	2
				Hydrophytic Ve	getation Indica	ors:
6				X 1 - Rapid Te	_	
7				X 2 - Dominar		· ·
	0	= Total Cover		X 3 - Prevaler	nce Index is ≤3.0	1
Herb Stratum (Plot size: 5 ft.)						ns <sup>1</sup> (Provide supporting
Phragmites australis	100	Yes	FACW	data in F	Remarks or on a	separate sheet)
2.				Problematic	: Hydrophytic Ve	getation <sup>1</sup> (Explain)
						and hydrology must
3				be present, unles		,
4				20 p. 000, a	50 diotai50d 0. p	
5				Definitions of Vo	egetation Strata	a:
6					-	n) or more in diameter
7				at breast height (	(DBH), regardles	s of height.
8.				Sapling/shrub -	- Woody plants le	ess than 3 in. DBH
9.				and greater than	or equal to 3.28	ft (1 m) tall.
				Herb - All herba	aaaua (nan waa	
				TICID - All Helba	ceous (non-woo	dy) plants, regardless of
10				size, and woody	•	- · · ·
10 11				size, and woody	plants less than	- · · ·
10				size, and woody	plants less than	3.28 ft tall.
10 11		= Total Cover	<u> </u>	size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10 11		= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10		= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall.  greater than 3.28 ft in

SOIL Sampling Point: DP-AZ Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Texture Remarks (inches) % 10YR 3/1 100 Clay 0-8 10YR 4/1 100 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 Matrix (F3) Depleted Below Dark Surface (A11) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AZ- View facing North



Wetland AZ- Soils

Segment 10 – Package 6

# SITE PHOTOGRAPHS

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

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Green	ne	Sampling Date:	November 18, 2021	
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-AZ-Upland	
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Catskill	•		
Landform (hillslope,								Slone (%): 1	
,	,	Terrace			f (concave, con			Slope (%): 1	
Subregion (LRR or I	MLRA):	LRR R		Lat: 42.261329	9°N	Long: -73.851589°W		Datum: NAD83	
Soil Map Unit Name	: Co - Covingto	on and Madalin soi	ils			NWI cla	assification: Not N	Mapped	
Are climatic / hydrol	ogic conditions or	the site typical for	this time of year	ar? Yes	<b>X</b> N	lo (If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	1? A	Are "Normal Circumstance:	s" present?	Yes X No	
		, or Hydrology				If needed, explain any ans	wers in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	ı site map s	showing sam	npling point	t locations, transec	ts, important	features, etc.	
Hydrophytic Vege	station Present?	Ves	No	х	Is the Sampl	ad Aroa		_	
Hydric Soil Presei		Yes _ Yes	No	X	within a Wet		No	X	
Wetland Hydrolog		Yes	No	X	If ves. optiona	al Wetland Site ID:		<del></del>	
Remarks: (Explain									
HYDROLOGY	Indicators					Spende	In displace (minis	of two required)	
Wetland Hydrolo								mum of two required)	
		e is required; check					e Soil Cracks (B6)		
Surface Water				Stained Leaves (	B9)		ge Patterns (B10)		
High Water T				Fauna (B13)			Frim Lines (B16)		
Saturation (A	•			eposits (B15)	(C.1)	Dry-Season Water Table (C2)			
Water Marks				en Sulfide Odor		Crayfish Burrows (C8)			
Sediment De				ed Rhizospheres					
Drift Deposits Algal Mat or	***			ce of Reduced In			d or Stressed Plant		
Iron Deposits	, ,			Iron Reduction in uck Surface (C7)	•		orphic Position (D2) v Aquitard (D3)	)	
<u> </u>	s (63) 'isible on Aerial Im	eageny (R7)		Explain in Remar			ppographic Relief (I	D4)	
	getated Concave	. , ,		Explain in Nora.	ikoj		eutral Test (D5)	J+)	
Field Observation		<b>Juliaco</b> (2.1,				<u> </u>			
Surface Water Pre		Yes No	X Depth	(inches):					
Water Table Pres		Yes No				Wetland Hydrology P	resent? Yes	No X	
Saturation Presen		Yes No	·			-			
(includes capillary	rfringe)								
Describe Recorde	ed Data (stream ga	auge, monitoring w	ell, aerial photo	s, previous inspe	ections), if avail	able:		_	
Remarks:									
No wetland hydi	rology present a	at data point							

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)		
2							
3.				Total Number of Dominant Species Across All Strata:	1(B)		
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC:	(A/B)		
6.							
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:		
		= Total Cover			x 1 = 0		
Sapling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0		
1				· ·	x 3 = <u>30</u>		
2				FACU species <u>85</u>	x 4 = <u>340</u>		
				UPL species 15	x 5 = <u>75</u>		
3				Column Totals: 110	(A) <u>445</u> (B)		
4				Prevalence Index = B/A	= 4 04		
5							
6				Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50			
	0	= Total Cover		3 - Prevalence Index is ≤3	3.0 <sup>1</sup>		
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat data in Remarks or on	` •		
1. Lolium perenne	80	Yes	FACU	data ili Kemarks oi on	a separate sneet)		
2. Centaurea stoebe	15	No	UPL	Problematic Hydrophytic	/egetation <sup>1</sup> (Explain)		
3. Galium boreale	10	No	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4. Taraxacum officinale	5	No	FACU				
5				Definitions of Vegetation Stra	ata:		
6				Tree – Woody plants 3 in. (7.6	cm) or more in diameter		
7				at breast height (DBH), regardl	ess of height.		
8.				Sapling/shrub – Woody plants	less than 3 in. DBH		
9.				and greater than or equal to 3.2	28 ft (1 m) tall.		
10				Herb - All herbaceous (non-wo	.,,		
11.				size, and woody plants less that	an 3.28 ft tall.		
12.				Woody vines – All woody vines height.	s greater than 3.28 ft in		
	110	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)	110	= 10tal 00vcl					
1				Hydrophytic			
2				Vegetation	v		
3				Present? Yes NoX			
4							
	0	= Total Cover	=				
Remarks: (Include photo numbers here or on a separate sheet.)  No hydrophytic vegetation found at data point							
No frydrophylic vegetalion found at data point							

Sampling Point: DP-AZ-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Texture Remarks (inches) % 10YR 3/2 100 Silty Clay Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Depth (inches): Hydric Soil Present? Yes Remarks: Could not dig past 4 inches due to gravel refusal, no hydric soils present at data point

SOIL



**Upland AZ- View facing North** 



**Upland AZ- Soils** 

Segment 10 – Package 6

# SITE PHOTOGRAPHS

#### **U.S. Army Corps of Engineers**

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

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

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

Project/Site: CHPE Package 6 - Segment 10	) City	y/County: Athens/Greene	Sampling Date: 12-2-22
Applicant/Owner: TDI		State: NY	Sampling Point: Wet P6-O
Investigator(s): C. Scrivner and C. Einstein		Section, Township, Range:	
Landform (hillside, terrace, etc.): Flat	Local relie	f (concave, convex, none): None	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42.25756°N	Long: -73.85298°W	Datum: WGS84
Soil Map Unit Name: Co: Covington and Mac	dalin soils	NWI classification:	PEM1
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydro	logy significantly disturbed	? Are "Normal Circumstances" prese	nt? Yes x No
Are Vegetation, Soil, or Hydro	<u></u>		Remarks.)
SUMMARY OF FINDINGS – Attach			
Hydrophytic Vegetation Present?	Yes X No Is	s the Sampled Area	
Hydric Soil Present?		vithin a Wetland? Yes X	No
Wetland Hydrology Present?		f yes, optional Wetland Site ID: Wetland	
Remarks: (Explain alternative procedures he		. , , o , , o , i o . i	
Persistent palustrine emergent marsh domina			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks	(B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (	B10)
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B	16)
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Γable (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	(8)
Sediment Deposits (B2)	Oxidized Rhizospheres on L		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (0		
Algal Mat or Crust (B4)	Recent Iron Reduction in Till	led Soils (C6) Geomorphic Positio	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	,
Inundation Visible on Aerial Imagery (B7)		Microtopographic R	
Sparsely Vegetated Concave Surface (B	3)	X FAC-Neutral Test (I	)5)
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):	4 Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previou	us inspections), if available:	
Remarks:			
Nemarks.			

### **VEGETATION** – Use scientific names of plants.

	lants.			Sampling Point: Wet P6-O
ee Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Descent of Deminent Coopies
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/E
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x 1 = 0
Phalaris arundinacea	98	Yes	FACW	FACW species 98 x 2 = 196
Lotus corniculatus	2	No	FACU	FAC species 0 x 3 = 0
				FACU species 2 x 4 = 8
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 204 (I
				Prevalence Index = B/A = 2.04
				Hydrophytic Vegetation Indicators:
	· · · · · · · · · · · · · · · · · · ·	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
				4 - Morphological Adaptations <sup>1</sup> (Provide supporti
				data in Remarks or on a separate sheet)
	-			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	-			
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
	·			Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.
				at breast neight (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.
				1
		=Total Cover		<ul> <li>Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.</li> </ul>
oody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft i
				height.
				Hydrophytic
				Vegetation Present? Yes X No
				Flesent: Tes \ NO
				Present? Yes X No

SOIL Sampling Point: Wet P6-O

Profile Desc Depth	ription: (Describe t Matrix	o the de		ment the x Feature		tor or co	nfirm the absence of ind	cators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks	8
0-11	10YR 2/1	100	· · · · · · · · · · · · · · · · · · ·				Loamy/Clayey			
11-18	10YR 5/1	80	10YR 4/6	20	С	M		Prominent red	dox co	ncentrations
11-10	1011( 3/1		10110 4/0			IVI	Loamy/Clayey	1 TOTTIMIETIC TEC	100 001	ncentrations
			·							
¹Type: C=Co	ncentration, D=Depl	etion, RM	I=Reduced Matrix, MS	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=P	ore Lining, M-	=Matri:	x.
Hydric Soil I							Indicators for P			
Histosol	(A1)		Dark Surface (S	37)			2 cm Muck (	A10) ( <b>LRR K</b> ,	L, ML	-RA 149B)
	ipedon (A2)		Polyvalue Belov		ce (S8) ( <b>L</b>	RR R,		e Redox (A16)		
Black His	` '		MLRA 149B)		/I DD D	MI DA 4		Peat or Peat		
	n Sulfide (A4) Layers (A5)		Thin Dark Surfa High Chroma S					elow Surface ( urface (S9) ( <b>L</b>		
	Below Dark Surface	(A11)	Loamy Mucky N							(LRR K, L, R)
	rk Surface (A12)	(/ /	Loamy Gleyed			, =/				(MLRA 149B)
Mesic Sp	oodic (A17)		Depleted Matrix	(F3)			Red Parent	Material (F21)	(outs	side MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark Su	rface (F	6)		Very Shallov	v Dark Surface	e (F22	<b>(1)</b>
	ucky Mineral (S1)		Depleted Dark		` '		Other (Expla	ain in Remarks	3)	
	leyed Matrix (S4)		Redox Depress	•	3)		31	£		- ti
	edox (S5) Matrix (S6)		Marl (F10) ( <b>LRI</b> Red Parent Ma		21) <b>(MI R</b>	Δ 145\		of hydrophytic y ydrology must	-	
	Wattix (OO)			toriai (i z	21) <b>(IVI 2</b> 1)	140)		turbed or prob	•	•
Restrictive L	.ayer (if observed):		-							
Type:										
Depth (in	ches):						Hydric Soil Present?	Yes	Χ	No
Remarks:							I			



Wetland P6-O - View facing south/southeast



Wetland P6-O - Soils

Segment 10 – Package 6

# SITE PHOTOGRAPHS

#### **U.S.** Army Corps of Engineers

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

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

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

Project/Site: CHPE	(	City/County: Athens/	/Greene	Sampling Date: 12/1/22
Applicant/Owner: TDI			State: NY	Sampling Point: P6-0-11 Wet
Investigator(s): N. Frazer & C. Einstein		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): depression	n Local re	——— elief (concave, conve	ex, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42-15-09.56N	•	73-51-16.47W	Datum: WGS84
Soil Map Unit Name: Covington and Madalin	<del></del>	25ng.	NWI classification:	PSS VVCCOT
Are climatic / hydrologic conditions on the site	, ,	Voc. v		
, ,	•	Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydro			nal Circumstances" prese	
Are Vegetation, Soil, or Hydro	logynaturally problemat	ic? (If needed	d, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	<b>I</b> f yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he Shrub swamp	re or in a separate report.)			
HYDROLOGY				
			Sacandary Indicators (n	cinimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required)	red: check all that apply)		Surface Soil Cracks	ninimum of two required)
X Surface Water (A1)	X Water-Stained Leaves (B	<u> </u>	Drainage Patterns (	` '
X High Water Table (A2)	Aquatic Fauna (B13)	<i>-</i> ,	Moss Trim Lines (B	·
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1)	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres or	n Living Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	l Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7	· <del></del>	s)	Microtopographic Ro	
Sparsely Vegetated Concave Surface (B	-8)		X FAC-Neutral Test (I	05)
Field Observations:	No. 11 (Contract)			
Surface Water Present? Yes x  Water Table Present? Yes x	No Depth (inches): _	<u>1</u> 6		
Water Table Present?  Yes x  Saturation Present?  Yes x	No Depth (inches): _ No Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)	Dopar (mones)		a Hydrology i resent.	<u> </u>
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
, ,	,	, ,		
Remarks:				
Remarks.				

### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant Species
. Rhamnus cathartica	2	Yes	FAC	That Are OBL, FACW, or FAC:3(A)
·				Total Number of Dominant
·				Species Across All Strata: 5 (B)
				Percent of Dominant Species
j				That Are OBL, FACW, or FAC: 60.0% (A/B
<u> </u>	<u> </u>			Prevalence Index worksheet:
	7	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15'	)			OBL species0 x 1 =0
. Fraxinus pennsylvanica	20	No	FACW	FACW species 95 x 2 = 190
. Cornus amomum	70	Yes	FACW	FAC species17 x 3 =51
. Cornus racemosa	10	No	FAC	FACU species10 x 4 =40
. Rhamnus cathartica	5	No	FAC	UPL species0 x 5 =0
Lonicera tatarica	5	No	FACU	Column Totals: 122 (A) 281 (B
i				Prevalence Index = B/A = 2.30
·				Hydrophytic Vegetation Indicators:
	110	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:)				X 2 - Dominance Test is >50%
. Lonicera tatarica	5	Yes	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Sphagnum moss species	10	Yes		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
i				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
S				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
). 				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2	- <u></u>	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft i
				height.
2				Hudrophotic
3.				Hydrophytic Vegetation
k				Present? Yes X No No
		=Total Cover		

SOIL Sampling Point P6-O-11 Wet

Depth	Matrix	0/		x Featur		12	T 4	Danie auto
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1	80	10YR 5/6	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 6/3	10	C	M		Distinct redox concentrations
12-16	10YR 2/1	100					Loamy/Clayey	
	<u> </u>							
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, M	1S=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
— Histosol			Dark Surface (S		vco (S8) (	I DD D		Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2) stic (A3)		MLRA 149B		ice (36) (	LKK K,		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surfa	,	) (LRR R	R, MLRA 1		lue Below Surface (S8) (LRR K, L)
	l Layers (A5)		High Chroma S					ark Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	e (A11)	Loamy Mucky I					anganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix (	(F2)		Piedmo	ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic S <sub>I</sub>	podic (A17)		X Depleted Matri	x (F3)			Red Pa	arent Material (F21) <b>(outside MLRA 145</b> )
(MLR	A 144A, 145, 149B)		Redox Dark Su	ırface (F	<del>-</del> 6)		Very S	hallow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (	Explain in Remarks)
	leyed Matrix (S4)		Redox Depress	•	8)		2	
	ledox (S5)		Marl (F10) ( <b>LR</b>					tors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	ıterial (F	-21) <b>(ML</b>	RA 145)		and hydrology must be present,
Restrictive I	Layer (if observed):						unies	ss disturbed or problematic.
Type:	non	е						
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:								
rtomanto.								



Wetland P6-O-11- View facing north



Wetland P6-O-11- Soils

Segment 10 – Package 6

# **SITE PHOTOGRAPHS**

#### **U.S.** Army Corps of Engineers

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

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

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

Project/Site: CHPE	(	City/County: Athens/	Greene	Sampling Date: 12/1/22
Applicant/Owner: TDI			State: NY	Sampling Point: P6-0-11 Upl
Investigator(s): N. Frazer & C. Einstein		Section, Tov	 vnship, Range:	
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	x, none): none	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42-15-09.36N		73-51-16.72W	 Datum: WGS84
Soil Map Unit Name: Covington and Madalin			NWI classification:	<del></del>
Are climatic / hydrologic conditions on the site	,	Yes x	<del></del>	explain in Remarks.)
, ,	•		• • •	,
Are Vegetation, Soilx_, or Hydro			nal Circumstances" prese	
Are Vegetation, Soil, or Hydro	<u> </u>		, explain any answers in	
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	ions, transects, im	iportant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea	
Hydric Soil Present?	Yes No	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional Wet	tland Site ID:	
Remarks: (Explain alternative procedures he pathway with gravel fill	,			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (BS	9)	Drainage Patterns (	(B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
—— Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C	<i>'</i>
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	,	Stunted or Stressed	, ,
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (Co)	Geomorphic Position	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	Thin Muck Surface (C7) Other (Explain in Remarks	·a1	Shallow Aquitard (D Microtopographic R	,
Sparsely Vegetated Concave Surface (B	′ <del></del>	5)	FAC-Neutral Test (I	` '
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):		d Hydrology Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				
Remarks.				

### **VEGETATION** – Use scientific names of plants.

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
5	Yes		
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
_			Total Number of Dominant
			Species Across All Strata: 4 (B)
			Percent of Dominant Species
_			That Are OBL, FACW, or FAC: 50.0% (A/B
			Prevalence Index worksheet:
5	=Total Cover		Total % Cover of: Multiply by:
)			OBL species0 x 1 =0
5	Yes	FAC	FACW species 0 x 2 = 0
5	Yes	FAC	FAC species 20 x 3 = 60
			FACU species60 x 4 =240
			UPL species0 x 5 =0
			Column Totals: 80 (A) 300 (B
			Prevalence Index = B/A =3.75
			Hydrophytic Vegetation Indicators:
10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
5	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
5	No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
5	No	<u>FACU</u>	data in Remarks or on a separate sheet)
5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles:
70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
)			Woody vines – All woody vines greater than 3.28 ft in
			height.
_			Hydrophytic
	5 5 5 5 5 5 5 5 5 5 5	5 Yes  5 Total Cover  7 Yes  5 Yes  5 Yes  5 No  5 No	5 Yes

SOIL Sampling Point P6-O-11 Upl

Profile Desc	ription: (Describe t	o the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	res		
(inches)	Color (moist)	%	Color (moist)	_ %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
			_				-
1Typo: C=Co	oncentration, D=Deple	otion PM	-Poducod Matrix M	 20M-2N	kod Sand	Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I		ellon, raivi	-Neduced Matrix, r	vio-ivias	ikeu Sano	Giailis.	Indicators for Problematic Hydric Soils <sup>3</sup> :
_			Dork Surface	(07)			
— Histosol			Dark Surface (		.00 (00) (1	DD D	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Polyvalue Beld		ice (56) (I	KK K,	Coast Prairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B	,	\		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf				
	Layers (A5)		High Chroma				Thin Dark Surface (S9) (LRR K, L)
	l Below Dark Surface	(A11)	Loamy Mucky			R K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		(F2)		Piedmont Floodplain Soils (F19) (MLRA 149B)
	oodic (A17)		Depleted Matr				Red Parent Material (F21) (outside MLRA 145
	A 144A, 145, 149B)		Redox Dark S				Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark	Surface	e (F7)		Other (Explain in Remarks)
	leyed Matrix (S4)		Redox Depres	sions (F	8)		
Sandy R	edox (S5)		Marl (F10) ( <b>LF</b>	RRK,L)			<sup>3</sup> Indicators of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hydrology must be present,
							unless disturbed or problematic.
Restrictive L	ayer (if observed):						
Type:	grave	el					
Depth (in	nches):	0					Hydric Soil Present? Yes No
Remarks: No soils- grav	vol fill						
No solis- grav	vei iiii.						



**Upland P6-O-11- View facing west** 



**Upland P6-O-11- Soils** 

Segment 10 – Package 6

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	son Express		City/Coun	nty: Greene	<u> </u>	Samplir	ng Date:	November 17, 2021
Applicant/Owner:	CHA			State:	NY		Samplin	g Point:	DP-AV
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range:	: Catskill			
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%): 1
, , ,	•	LRR R		Lat: 42.260215°	·	-ong: -73.85203			Slope (70):1
Subregion (LRR or I Soil Map Unit Name	-		ilo	Lat: 42.200213	TN L	.ong: -13.00200	NWI classification	- Not N	
•		on and Madalin soi		0.1/	V No	/If m	•		Mapped
Are climatic / hydrol	-		-				o, explain in Rema		<b>.</b>
		, or Hydrology					ımstances" present		Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	needed, explain	any answers in R	emarks.)	
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, imp	ortant f	eatures, etc.
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		Is the Sample	ed Area			
Hydric Soil Prese		Yes	X No		within a Wetla		Yes X	No _	
Wetland Hydrolog		Yes	X No		If yes, optional	l Wetland Site ID	): <u>AV</u>		_
TADBOI OGA									
HYDROLOGY	- I Ucctoro						Odami Indiant	(minin	f time required)
Wetland Hydrolo			" " t === t \						num of two required)
		e is required; check					Surface Soil Cra		
Surface Water 7			_	-Stained Leaves (E	39)	<u>X</u>	•		
X High Water T X Saturation (A			·	ic Fauna (B13) Deposits (B15)			Moss Trim Lines  Dry-Season Wat		(00)
Water Marks	·			gen Sulfide Odor (	(C1)		Crayfish Burrows		(02)
Sediment De			_	ed Rhizospheres c		(C3)	Saturation Visible		al Imanery (C9)
Drift Deposits				nce of Reduced Iro			Stunted or Stres		
Algal Mat or				nt Iron Reduction in		6) X	_		
Iron Deposits				/luck Surface (C7)	•		Shallow Aquitard		
<u> </u>	isible on Aerial Im	nagery (B7)		(Explain in Remark			Microtopographi		D4)
Sparsely Ve	getated Concave S	Surface (B8)	_				FAC-Neutral Tes		
Field Observation	ns:								
Surface Water Pre		·		h (inches):					
Water Table Pres		Yes X No				Wetland Hyd	rology Present?	Yes	X No
Saturation Presen		Yes X No	Depth	ı (inches): 5					
(includes capillary	<u> </u>		":-l nhat	· · · · · · · · · · · · · · · · · · ·	" -\ 'f eveile				
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aeriai photo	os, previous inspe	ections), it availa	ble:			
Remarks:		-							

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	t worksheet:	
,		Сросиос.	<u> </u>	Number of Domir		4 (4)
1				That Are OBL, F	ACVV, or FAC:	(A)
2				Total Number of		
3				Species Across A	All Strata:	(B)
4				Percent of Domir		
5				That Are OBL, F	ACW, or FAC:	(A/B)
6						
7				Prevalence Inde		Multiply by:
		= Total Cover		OBL species		x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	<u> </u>	x = 200
				FAC species		x 3 = 0
1				FACU species		x = 0
2				UPL species		x = 0
3				Column Totals:	100	
4					.00	(2)
5.				Prevalence	e Index = B/A =	2
				Hydrophytic Ve	getation Indicas	ors:
6				X 1 - Rapid Te	_	
7				X 2 - Dominar		<u> </u>
	0	= Total Cover		X 3 - Prevaler	nce Index is ≤3.0	1
Herb Stratum (Plot size: 5 ft.)					-	ns <sup>1</sup> (Provide supporting
Phalaris arundinacea	100	Yes	FACW	data in F	Remarks or on a	separate sheet)
2.				Problematic	: Hydrophytic Ve	getation <sup>1</sup> (Explain)
						and hydrology must
3				be present, unles		, ,,
4				20 p. 000, u		
5				Definitions of Ve	egetation Strata	a:
6					=	n) or more in diameter
7				at breast height (	DBH), regardles	s 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						
9				Herb – All herbad	ceous (non-woo	dy) plants, regardless of
10				<b>Herb</b> – All herbad size, and woody	•	- · · ·
10 11				size, and woody	plants less than	- · · ·
10				size, and woody	plants less than	3.28 ft tall.
10 11		= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10 11	<u> </u>	= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10	<u> </u>	= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic	plants less than	3.28 ft tall.
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100	= Total Cover		size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in
10	100			size, and woody  Woody vines – A height.  Hydrophytic Vegetation	plants less than	3.28 ft tall. greater than 3.28 ft in

SOIL Sampling Point: DP-AV Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Loc<sup>2</sup> Type<sup>1</sup> Color (moist) Color (moist) Texture Remarks (inches) 10YR 3/2 90 7.5YR 5/6 Clay 0-6 7.5YR 5/6 10YR 3/2 70 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AV- View facing North



Wetland AV- Soils

Segment 10 – Package 6

# SITE PHOTOGRAPHS

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

ach site m  es es a separate n n middle of	e of year signific natura  No _ No _ No _ report.) access  apply)  Water-St	Local relie  Lat: 42.260303  r? Yes  cantly disturbed ally problematic  howing san  X  X	X No	Long: -73.852037°W  NW  Io (If no, expanse "Normal Circumsta" If needed, explain any It locations, trans  ed Area land? Y  al Wetland Site ID:  Second	// classification: plain in Remarks. nnces" present? answers in Remarks. sects, import	Slope ( Datum: I  Not Mapped  .)  Yes X  narks.)  tant features,  No X  s (minimum of two s (B6)	, etc.
ach site m  as ses ses ses ses ses ses ses ses ses s	e of year signific natura  No _ No _ No _ report.) access  apply)  Water-St	Local relie  Lat: 42.260303  r? Yes  cantly disturbed ally problematic  nowing san  X  X  X  tained Leaves (	x Nod? A  Ref (concave, con- 3°N	Long: -73.852037°W  NW  Io (If no, expanse "Normal Circumsta" If needed, explain any It locations, trans  ed Area land? Y  al Wetland Site ID:  Second	// classification: plain in Remarks. plain in Remarks. present? answers in Remarks. presects, import  /es	Not Mapped  Not Mapped  Yes X  Marks.)  tant features,  No X  G (minimum of two s (B6)	NAD83
ach site m  as ses ses ses ses ses ses ses ses ses s	e of year signific natura  No _ No _ No _ report.) access  apply)  Water-St	Local relie  Lat: 42.260303  r? Yes  cantly disturbed ally problematic  nowing san  X  X  X  tained Leaves (	x Nod? A  Ref (concave, con- 3°N	Long: -73.852037°W  NW  Io (If no, expanse "Normal Circumsta" If needed, explain any It locations, trans  ed Area land? Y  al Wetland Site ID:  Second	// classification: plain in Remarks. plain in Remarks. present? answers in Remarks. presects, import  /es	Not Mapped  Not Mapped  Yes X  Marks.)  tant features,  No X  G (minimum of two s (B6)	NAD83
ach site m  as ses ses ses ses ses ses ses ses ses s	e of year signific natura  No _ No _ No _ report.) access  apply)  Water-St	r? Yes cantly disturbed ally problematic howing san  X  X  X  x  tained Leaves (	X Nod? A Ac? (III	Long: -73.852037°W  NW lo (If no, exp Are "Normal Circumsta If needed, explain any It locations, trans ed Area land? Y all Wetland Site ID:  Seco	// classification: plain in Remarks. plain in Remarks. present? answers in Remarks. presects, import  /es	Not Mapped  Not Mapped  Yes X  Marks.)  tant features,  No X  G (minimum of two s (B6)	NAD83
ach site m  as ses ses ses ses ses ses ses ses ses s	e of year signific natura  No _ No _ No _ report.) access  apply)  Water-St	r? Yes cantly disturbed ally problematic nowing san  X  X  X  tained Leaves (	X No	NW. Io (If no, explain any Are "Normal Circumstate of needed, explain any at locations, transfed Area land? Year Wetland Site ID:    Second	/I classification: plain in Remarks. inces" present? answers in Remarks sects, import  /es  pondary Indicators rface Soil Cracks	Not Mapped  Yes X  Marks.)  tant features,  No X  G (minimum of two s (B6)	, <b>etc</b> .
ach site m  as ses ses ses ses ses ses ses ses ses s	natura nap sh No _ No _ No _ report.) access	cantly disturbed ally problematic howing san X X X X x tained Leaves (	d? A c? (II mpling point Is the Sample within a Wetl If yes, optional	io (If no, expanse of the work of th	plain in Remarks. Inces" present? Inces" present? Inces in Remarks. Inces in Remarks	Yes X narks.)  Yes X narks.)  tant features,  No X  s (minimum of two s (B6)	, etc.
ach site m  as a separate r n middle of	natura nap sh No _ No _ No _ report.) access	cantly disturbed ally problematic howing san X X X X x tained Leaves (	d? A c? (II mpling point Is the Sample within a Wetl If yes, optional	Are "Normal Circumsta If needed, explain any It locations, trans ed Area land? Y al Wetland Site ID:  Seco	answers in Remanders in Remande	Yes X narks.)  tant features,  No X  s (minimum of two s (B6)	, etc.
ach site m  as as aseparate ro middle of	natura  No _ No _ No _ report.) raccess  apply)  Water-St	And the state of t	Is the Sample within a Wetl	t locations, trans ed Area land? Y al Wetland Site ID:	answers in Rema	tant features,  No X  is (minimum of two is (B6))	, etc.
ach site m  es es a separate n n middle of	No No No report.) access apply) Water-St	X X X X s road	Is the Sample within a Wetl	ed Area land? Y al Wetland Site ID:	rface Soil Cracks	No X  (minimum of two s (B6)	
a separate non middle of	No	X X X s road	Is the Sample within a Wetl	ed Area land? Y al Wetland Site ID:  Seco	ondary Indicators	No X	
a separate ron middle of	No report.) raccess apply) Water-St	X X s road	within a Wetl	land? Y al Wetland Site ID:  Seco	ondary Indicators	: (minimum of two	required)
a separate ron middle of middle of meck all that a	Noreport.) access apply) Water-St	X s road	If yes, optiona	Seco	ondary Indicators	: (minimum of two	required)
a separate romain middle of the middle of th	report.) access apply) Water-St	s road		Seco	rface Soil Cracks	s (B6)	required)
n middle of	apply) Water-St	tained Leaves (	(B9)	Su	rface Soil Cracks	s (B6)	required)
W	Water-St Aquatic F		(B9)	Su	rface Soil Cracks	s (B6)	required)
W	Water-St Aquatic F		(B9)	Su	rface Soil Cracks	s (B6)	. ,
W	Water-St Aquatic F		(B9)				
A	Aquatic F		(50)	D.1.	amago r attorno (	(0.0)	
	-			<del></del>	ss Trim Lines (B		
	⁄lari Dep	oosits (B15)			y-Season Water 1	•	
Н	-	n Sulfide Odor	(C1)		ayfish Burrows (C		
	-		on Living Roots		-	on Aerial Imagery	(C9)
<u> </u>	resence	e of Reduced I	ron (C4)	Stu	unted or Stressed	d Plants (D1)	
R	Recent Ir	ron Reduction i	in Tilled Soils (C	(6) Ge	omorphic Positio	on (D2)	
T	hin Muc	ck Surface (C7)	)	Sh	allow Aquitard (D	03)	
_ 0	Other (Ex	xplain in Rema	arks)	Mid	crotopographic R	telief (D4)	
				FA	C-Neutral Test (D	D5)	
				ı			
				Wetland Hydrolog	y Present?	Yes	No X
No <u>X</u> I	Depth (i	inches):		ı			
N	F	Recent II Thin Muc Other (E.	Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Rema  o X Depth (inches):  o X Depth (inches):  o Depth (inches):	Thin Muck Surface (C7) Other (Explain in Remarks)   o X Depth (inches): o X Depth (inches): o X Depth (inches):	Recent Iron Reduction in Tilled Soils (C6)   Ge	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)  Shallow Aquitard (Explain in Remarks)  Microtopographic Response FAC-Neutral Test (Inches):  Shallow Aquitard (Explain in Remarks)  Metland Hydrology Present?	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)  Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  O X Depth (inches):  Wetland Hydrology Present? Yes Depth (inches):

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:
Tree Stratum (Flot 3126, 50 ft.)	70 COVE	Opecies:	Otatus	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (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 $0$ $x 2 = 0$
	_			FAC species 0 x 3 = 0
1				FACU species 95 x 4 = 380
2				UPL species 5 x 5 = 25
3				Column Totals: 100 (A) 405 (B)
4				
5				Prevalence Index = B/A = 4.05
6				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
Harb Chrotuse (Diet size, 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 ft.)	_			data in Remarks or on a separate sheet)
1. Lolium perenne			FACU	
Centaurea stoebe	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
7				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
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
3				Present? Yes NoX
4				
	0	= Total Cover	-	
Remarks: (Include photo numbers here or on a separate sheet	et.)			
No hydrophytic vegetation found at data point				

SOIL Sampling Point: DP-AV-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Remarks Color (moist) Color (moist) Texture (inches) % 0-12 10YR 3/2 100 Silty Clay Loam 7.5YR 5/6 10YR 3/2 90 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Hydric Soil Present? Yes Depth (inches): Remarks: No hydric soils present at data point



**Upland AV- View facing North** 



**Upland AV- Soils** 

# SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Greene		Sampling Da	ate: November 17, 2021		
Applicant/Owner:	CHA	<del>_</del>		State:	NY		Sampling Poi	int: DP-AS		
Investigator(s):	Tristen Peterson	<u> </u>		Section, To	ownship, Range:	Catskill				
Landform (hillslope,		Depression			f (concave, conve	•	Concave	Slope (%): 1		
, ,		•			•					
Subregion (LRR or I		LRR R		Lat: 42.251952°	°N LO	ong: -73.85583		Datum: NAD83		
Soil Map Unit Name	: Co- Covingto	on and Madalin soi	ils				NWI classification:	Not Mapped		
Are climatic / hydrole	ogic conditions on	the site typical for	this time of ye	ear? Yes	<b>X</b> No	(If no	o, explain in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? Are	e "Normal Circur	mstances" present?	Yes <b>X</b> No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If r	needed, explain	any answers in Remai	rks.)		
SUMMA	ARY OF FIND	NGS – Attach	site map	showing sam	pling point I	ocations, tr	ansects, importa	ant features, etc.		
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		Is the Sampled	d Area				
Hydric Soil Preser		Yes	X No		within a Wetla		Yes X	No		
Wetland Hydrolog		Yes	X No		If yes, optional	Wetland Site ID	: AS			
TIVE POLOCY										
HYDROLOGY										
Wetland Hydrolo								(minimum of two required)		
	•	e is required; check					Surface Soil Cracks (			
X Surface Water				-Stained Leaves (E	39)	<u>X</u>	,			
High Water T				ic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	-			Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks				gen Sulfide Odor (0		Crayfish Burrows (C8)				
Sediment De				ed Rhizospheres o						
Drift Deposits				nce of Reduced Iro		Stunted or Stressed Plants (D1)				
Algal Mat or				nt Iron Reduction in		_ · · · · _ · · · · · · · · · · · · · ·				
Iron Deposits				Muck Surface (C7)		Shallow Aquitard (D3)				
	/isible on Aerial Im		Other	(Explain in Remark	ks)	Microtopographic Relief (D4)				
Sparsely Veg	getated Concave S	Surface (B8)					FAC-Neutral Test (D	5)		
Field Observation					_					
Surface Water Pre		Yes X No			1					
Water Table Prese		Yes No			1	Wetland Hydr	rology Present?	Yes X No		
Saturation Presen		Yes No	X Depth	ı (inches):	]					
(includes capillary		** = = = = = =	" ' 1 - 1 - 1							
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aerial phot	os, previous inspe	ections), if availar	ole:				
Remarks:										

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:			
1.		_ Сросисот	Otatao	Number of Dominant Species	4 (4)		
				That Are OBL, FACW, or FAC:	1(A)		
2				Total Number of Dominant	0 (D)		
3				Species Across All Strata:	(B)		
4				Percent of Dominant Species	FO (A/D)		
5				That Are OBL, FACW, or FAC:	(A/B)		
6.				Prevalence Index worksheet:	:		
7				Total % Cover of:	Multiply by:		
	0 =	= Total Cover		OBL species 10	x 1 = 10		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 40	x 2 = 80		
1					x 3 = 0		
2.					x 4 = 0		
3.					x 5 = 0		
				Column Totals: 50	(A) <u>90</u> (B)		
4				Prevalence Index = B/A	= 1.8		
5							
6				Hydrophytic Vegetation Indic 1 - Rapid Test for Hydrop			
7				X 2 - Dominance Test is >50	· -		
	0	= Total Cover		X 3 - Prevalence Index is ≤3			
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat			
1. Typha latifolia	60	Yes	OBL	data in Remarks or on	a separate sheet)		
Phragmites australis	40	Yes	FACW	Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)		
3. Lythrum salicaria	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
				be present, unless disturbed or			
-				Definitions of Venetation Str.	-4		
5				Definitions of Vegetation Stra			
6.				Tree – Woody plants 3 in. (7.6 at breast height (DBH), regard	·		
7					· ·		
8				Sapling/shrub – Woody plants and greater than or equal to 3.3			
9							
10.				Herb – All herbaceous (non-wo size, and woody plants less that	.,,		
11							
12				<b>Woody vines</b> – All woody vine height.	s greater than 3.28 ft in		
	110	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1.							
' · <u> </u>				Hydrophytic			
2				Vegetation			
3				Present? Yes	No		
4							
	0	= Total Cover	•				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

SOIL Sampling Point: DP-AS Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Loc<sup>2</sup> Type<sup>1</sup> Color (moist) Color (moist) Texture Remarks (inches) 10YR 2/1 95 7.5YR 5/6 Clay 0-8 10YR 3/2 7.5YR 6/8 70 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland AS- View facing North



**Wetland AS- Soils** 

## **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Green	e	Sampling Date:	November 17, 2021		
Applicant/Owner:	CHA			State:	NY		Sampling Point:	DP-AS-Upland		
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range	e: Catskill				
		Plain			f (concave, con			Slone (%): 1		
Landform (hillslope,	•				•			Slope (%): 1		
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat: 42.252092	°N	Long: -73.855625°W		Datum: NAD83		
Soil Map Unit Name	: Co- Covingto	on and Madalin soi	ls			NWI cla	ssification: Not N	Mapped		
Are climatic / hydrol	ogic conditions or	the site typical for	this time of yea	ır? Yes	X N	o (If no, explain	in Remarks.)			
Are Vegetation	, Soil	, or Hydrology	signif	icantly disturbed	? Д	Are "Normal Circumstances	" present?	Yes X No		
		, or Hydrology				f needed, explain any ansv	wers in Remarks.)			
SUMMA	ARY OF FIND	INGS – Attach	site map s	howing sam	pling point	locations, transect	:s, important f	features, etc.		
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		No _	X		
Wetland Hydrolog		Yes	No	Х	If yes, optiona	al Wetland Site ID:				
HYDROLOGY								_		
	Indicators					Sacanda	= · Indiantors (minir	of two required)		
Wetland Hydrolo			2.2.					num of two required)		
		e is required; check	•				Soil Cracks (B6)			
Surface Water				Stained Leaves (E	B9)		ge Patterns (B10)			
High Water 7				Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A	•			posits (B15)	(0.4)	Dry-Season Water Table (C2)				
Water Marks				en Sulfide Odor (		Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)				
Sediment De				d Rhizospheres of		<del>_</del>				
Drift Deposits	***		_	ce of Reduced Iron	, ,	Stunted or Stressed Plants (D1)  (C6)  Comparison Position (D2)				
Algal Mat or Iron Deposits	, ,			Iron Reduction in lck Surface (C7)	1 Hilea Solis (C	· · · · · · · · · · · · · · · · · · ·				
l —	s (65) 'isible on Aerial Im	22221/(R7)	_	Explain in Remar	·ks)	Shallow Aquitard (D3)				
	getated Concave S		Ouiei (E	Explain in Neman	KS)	<ul><li>Microtopographic Relief (D4)</li><li>FAC-Neutral Test (D5)</li></ul>				
		Juliace (Do)			1		Juliai 1631 (DO)			
Field Observation Surface Water Pre		Yes No	Y Denth	(inchas):						
Water Table Pres		Yes No				Wetland Hydrology P	rocont? Vac	No X		
Saturation Presen		Yes No				Welland Hydrology i	esentr res	No <u>X</u>		
(includes capillary		res no		(Inches).						
		auge, monitoring w	ell. aerial photo	s. previous inspe	ections), if availa	able:				
	_			-,,	,,					
Remarks:	<del></del>							<del></del>		
No wetland hydi	rology present a	it data point								

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
1.	7,0 00.00	ороског.	<u> </u>	Number of Domi			0	(4)
				That Are OBL, F.	ACVV, OF FAC:	-	0	(A)
2.				Total Number of				<b>(D)</b>
3				Species Across A	Ali Strata:		1	(B)
4				Percent of Domir			0	(A /D)
5				That Are OBL, F	ACVV, OF FAC:	-	0	(A/B)
6				Prevalence Inde	ex worksheet:			
7				Total % Cov		Mult	iply by:	_
	0 =	= Total Cover		OBL species	0	x 1 = <u>0</u>		
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
1				FAC species	0			
2				FACU species	100	_		
3.				UPL species	0	_		
				Column Totals:	100	(A) <u>4</u>	00	(B)
4				Prevalence	e Index = B/A = 4	4		
5								
6.				Hydrophytic Ve	getation Indicat est for Hydrophy		ion	
7					nce Test is >50%	_	1011	
	0	= Total Cover			nce Index is ≤3.0			
Herb Stratum (Plot size: 5 ft.)					ogical Adaptation			ng
1. Lolium perenne	100	Yes	FACU	data in F	Remarks or on a	separate s	sheet)	
2				Problematic	c Hydrophytic Ve	getation <sup>1</sup> (	Explain)	
3			,	<sup>1</sup> Indicators of hyd	dric soil and wetl	and hydrol	logy must	
				be present, unles				
				Definitions of V	ogotation Strata	·-		
5					_		in diamentar	_
6.				Tree – Woody pl at breast height (	*	•		
7						_		
8				Sapling/shrub – and greater than				
9								-4
10				Herb – All herba	•		_	OT
11				Woody vines –				
12.				height.	All woody villes g	jieatei tiiai	11 3.20 11 111	
	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 Cove	r					
Remarks: (Include photo numbers here or on a separate sh	eet.)							
No hydrophytic vegetation found at data point								

SOIL Sampling Point: DP-AS-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) Texture Remarks (inches) % 10YR 3/3 100 Silty Clay Loam 0-8 7.5YR 5/6 10YR 3/3 95 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 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) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) 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) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None No X Depth (inches): Hydric Soil Present? Yes Remarks: No hydric soils present at data point



**Upland AS- View facing North** 



**Upland AS- Soils** 

## SITE PHOTOGRAPHS

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE		City/County: Athens/	Greene	Sampling Date: 12/1/22
Applicant/Owner: TDI			State: NY	Sampling Point: P6-N-5 wet
Investigator(s): N. Frazer & C. Einstein		Section, Tov	vnship, Range:	
Landform (hillside, terrace, etc.): depression	on Local re	elief (concave, conve		Slope %: 1
Subregion (LRR or MLRA): LRR R	Lat: 42-15-04.50N		73-51-18.84W	Datum: WGS84
Soil Map Unit Name: Covington and Madalir			NWI classification:	PEM
<del>-</del>				
Are climatic / hydrologic conditions on the site		Yes x	·	explain in Remarks.)
Are Vegetation, Soil, or Hydro			al Circumstances" prese	ent? Yes <u>x</u> No
Are Vegetation, Soil, or Hydro	ologynaturally problemat	tic? (If needed	, explain any answers in	Remarks.)
<b>SUMMARY OF FINDINGS – Attach</b>	site map showing samp	pling point locat	ions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Voc. V. No.	Is the Sampled Ar		
Hydric Soil Present?	Yes X No	within a Wetland?		No
Wetland Hydrology Present?	Yes X No	If yes, optional We		<del></del>
Remarks: (Explain alternative procedures h		,,		
common reed marsh	oro or mra coparato reporti			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	red; check all that apply)		Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (	[B10)
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
— Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C	<i>'</i>
Sediment Deposits (B2)	X Oxidized Rhizospheres of			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro	` '	Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7	· ` · ·	(S)	Microtopographic R	` ′
Sparsely Vegetated Concave Surface (E			X FAC-Neutral Test (I	J3)
Field Observations:	No v Donth (inches)			
Surface Water Present? Yes Water Table Present? Yes x	No x Depth (inches): _ No Depth (inches): _	10		
Water Table Present?  Yes x  Saturation Present?  Yes x	No Depth (inches): _ No Depth (inches): _		d Hydrology Present?	Yes X No
(includes capillary fringe)	Deptit (iliches).	vvetiani	a riyarology r resent:	165 <u>X</u> 110
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if a	available:	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remarks:				
Adjacent to stream.				

## **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Cornus amomum	10	Yes	FACW	FACW species 105 x 2 = 210
2				FAC species0 x 3 =0
3				FACU species 2 x 4 = 8
4.				UPL species 0 x 5 = 0
5.				Column Totals: 107 (A) 218 (B)
6.				Prevalence Index = B/A = 2.04
7				Hydrophytic Vegetation Indicators:
<i>'</i>	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		, rotal covol		X 2 - Dominance Test is >50%
	85	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phragmites australis     Phologic any advances.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<ol> <li>Phalaris arundinacea</li> <li></li></ol>	10	No	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ol> <li>5.</li> <li>6.</li> </ol>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Hank All bank account (non-vecale) alonte recording
	95	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	2	No	FACU	height.
2				Lhudua a budia
3				Hydrophytic Vegetation
4				Present?
	2	=Total Cover		
Remarks: (Include photo numbers here or on a separate	rate sheet.)			

Sampling Point: P6-N-5 wet

SOIL Sampling Point P6-N-5 wet

Profile Desc Depth	ription: (Describe to Matrix	o the de		ı <b>ment t</b> h ∢Featur		itor or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 4/2	80	10YR 4/6	10	С	PL	Loamy/Clayey	Prominent redox concentrations
			10YR 5/4	_10_	C	M		Distinct redox concentrations
8-14	10YR 4/1	70	10YR 5/6	_30_	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations
14-18	10YR 5/1	80	10YR 5/8		C	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
1T.max 0=0a							21 acation: D	II = Dove Lining MaMetrix
	ncentration, D=Deple	etion, RIV	I=Reduced Matrix, N	IS=Masi	ked Sand	Grains.		L=Pore Lining, M=Matrix.
Black His Hydroger Stratified Depleted Thick Da Mesic Sp (MLRA Sandy M Sandy G Sandy R Stripped	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) podic (A17) A 144A, 145, 149B) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)	. ,	Dark Surface (Spot) Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma Scorn Mucky I Loamy Mucky I Loamy Gleyed X Depleted Matrix Redox Dark Surfa Depleted Dark Redox Depress Marl (F10) (LR Red Parent Ma	w Surface) cace (S9) cands (S dineral ( Matrix (I x (F3) urface (F Surface sions (FE R K, L)	(LRR R. 111) (LRI (F1) (LRI F2) 6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Mu Coast P 5 cm Mu Thin Dai Iron-Mai Piedmor Red Par Very Sh Other (E	or Problematic Hydric Soils <sup>3</sup> :  lick (A10) (LRR K, L, MLRA 149B)  rairie Redox (A16) (LRR K, L, R)  licky Peat or Peat (S3) (LRR K, L, R)  lie Below Surface (S8) (LRR K, L)  rick Surface (S9) (LRR K, L)  Inganese Masses (F12) (LRR K, L, R)  Int Floodplain Soils (F19) (MLRA 149B)  lent Material (F21) (outside MLRA 145)  allow Dark Surface (F22)  Explain in Remarks)  ors of hydrophytic vegetation and  and hydrology must be present,  as disturbed or problematic.
Type: _ Depth (in	none nches):	)					Hydric Soil Prese	nt? Yes X No
Remarks:								



Wetland P6-N-5- View facing west



Wetland P6-N-5- Soils

## **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE	(	City/County: Athens/	'Greene	Sampling Date: 12/1/22			
Applicant/Owner: TDI			State: NY	Sampling Point: P6-N-5 Upl			
Investigator(s): N. Frazer & C. Einstein		Section, To	——— wnship, Range:	_			
Landform (hillside, terrace, etc.): hillslope	Local re	——— elief (concave, conve	x, none): none	Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 42-15-04.28N	•	73-51-18.69W	Datum: WGS84			
Soil Map Unit Name: Covington and Madalin			NWI classification:	<del></del>			
·	· ,						
Are climatic / hydrologic conditions on the site	•	Yes x	`	, explain in Remarks.)			
Are Vegetation, Soil, or Hydro			nal Circumstances" pres				
Are Vegetation, Soil, or Hydro	ogynaturally problemati	tic? (If needed	d, explain any answers i	n Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	tions, transects, ir	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes X No	within a Wetland?	? Yes	No X			
Wetland Hydrology Present?	Yes No X	<b>I</b> f yes, optional We	tland Site ID:				
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
pathway							
HYDROLOGY							
Wetland Hydrology Indicators:				(minimum of two required)			
Primary Indicators (minimum of one is require			Surface Soil Crack	` '			
Surface Water (A1)	Water-Stained Leaves (B	.9)	Drainage Patterns (B10)  Moss Trim Lines (B16)				
—— High Water Table (A2) Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres or		<del></del> '	on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positi	, ,			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remark	is)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutral Test	(D5)			
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present?	Yes No _X			
(includes capillary fringe)	2 de completa de la		-9-61				
Describe Recorded Data (stream gauge, mod	litoring well, aerial priolos, prev	vious inspections), ii	avaliable:				
Remarks:							

## **VEGETATION** – Use scientific names of plants.

Tree Stratum       (Plot size:       30'       %         1.			Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 4 (B)
3				That Are OBL, FACW, or FAC:0 (A)  Total Number of Dominant
4				
6				
7				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:15')				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)		=Total Cover		Total % Cover of: Multiply by:
				OBL species0 x 1 =0
1. Lonicera tatarica	15	Yes	FACU	FACW species15 x 2 =30
2. Rubus occidentalis	10	Yes	UPL	FAC species0 x 3 =0
3				FACU species98 x 4 =392
4.				UPL species 15 x 5 = 75
5.				Column Totals: 128 (A) 497 (B)
6.				Prevalence Index = B/A = 3.88
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Cirsium arvense	2	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Glechoma hederacea	8	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago canadensis	65	Yes	FACU	data in Remarks or on a separate sheet)
4. Phalaris arundinacea	15	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Asclepias syriaca	5	No	UPL	<u></u>
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
_	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	8	Yes	FACU	height.
2				Heater who die
3				Hydrophytic Vegetation
4				Present?
<u> </u>	8	=Total Cover		

Sampling Point: P6-N-5 Upl

SOIL Sampling Point P6-N-5 Upl

Profile Desc Depth	ription: (Describe to Matrix	the de		<b>cument th</b> ox Featur		ator or co	onfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-3	10YR 3/2	100					Loamy/Clayey		
3-16	10YR 5/2	90	10YR 5/4	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Distinct redox concent	trations
			10YR 4/6	5	C	M		Prominent redox conce	ntrations
									-
				- —					
				- —					
	ncentration, D=Deple	tion, RM	1=Reduced Matrix,	MS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil I			5 10 6	(07)				or Problematic Hydric Soi	
Histosol	(A1) ipedon (A2)		Dark Surface Polyvalue Bel		00 (88) (	I DD D		ick (A10) ( <b>LRR K, L, MLRA</b> rairie Redox (A16) ( <b>LRR K,</b>	,
Black His			MLRA 149		ce (30) (	LKK K,		cky Peat or Peat (S3) ( <b>LRF</b>	
	n Sulfide (A4)		Thin Dark Su	,	(LRR R	, MLRA 1		e Below Surface (S8) ( <b>LRR</b>	
	Layers (A5)		High Chroma					k Surface (S9) ( <b>LRR K, L</b> )	, ,
	Below Dark Surface	(A11)	Loamy Mucky					nganese Masses (F12) ( <b>LR</b>	R K, L, R)
Thick Da	rk Surface (A12)		Loamy Gleye	d Matrix (	F2)		Piedmon	it Floodplain Soils (F19) ( <b>M</b>	LRA 149B)
Mesic Sp	odic (A17)		X Depleted Mat	rix (F3)			Red Pare	ent Material (F21) <b>(outside</b>	MLRA 145)
	A 144A, 145, 149B)		Redox Dark S	•	•			allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dar				Other (E	xplain in Remarks)	
	leyed Matrix (S4)		Redox Depre	-	8)		3		
	edox (S5)		Marl (F10) (LI	-	04) (88)			rs of hydrophytic vegetation	
Stripped	Matrix (S6)		Red Parent M	lateriai (F	21) (MLI	RA 145)		d hydrology must be prese disturbed or problematic.	nt,
Restrictive L	.ayer (if observed):							diotarboa di problematio.	
Type:	none								
Depth (in	ches):						Hydric Soil Presen	nt? Yes X N	lo
Remarks:									



Upland P6-N-5- View facing south



**Upland P6-N-5- Soils** 

## **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE	(	City/County: Catskill	/Greene	Sampling Date: 2/2/23			
Applicant/Owner: TDI		<u></u>	State: NY	Sampling Point: P6-Q Wet (PSS)			
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x. none): Concave	Slope %: 3			
Subregion (LRR or MLRA): LRR R	Lat: 42.245586		-73.857256	Datum: NAD83			
Soil Map Unit Name: NrC - Nassau channery			NWI classification:	PSS1			
·							
Are climatic / hydrologic conditions on the site	•	Yes x		explain in Remarks.)			
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese				
Are Vegetation, Soil, or Hydrol	logynaturally problemati	ic? (If needed	d, explain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea				
Hydric Soil Present?	Yes X No	within a Wetland?	? Yes X	No			
Wetland Hydrology Present?	Yes X No	<b>I</b> f yes, optional We	tland Site ID: near flag	P6-Q-4			
Remarks: (Explain alternative procedures he Shrub swamp.	ere or in a separate report.)						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)			
Surface Water (A1)	X Water-Stained Leaves (BS	9)	Drainage Patterns (	·			
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water <sup>-</sup>				
Water Marks (B1)	— Hydrogen Sulfide Odor (C		Crayfish Burrows (C	,			
X Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	,	Stunted or Stressed	, ,			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (Co)	Geomorphic Positio Shallow Aguitard (D				
Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remarks	c)	' '	,			
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· <del></del> · · ·	S)	X Microtopographic Rox X FAC-Neutral Test (I				
Field Observations:			<u> </u>				
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):	9					
Saturation Present? Yes X	No Depth (inches):	<del></del>	d Hydrology Present?	Yes X No			
(includes capillary fringe)	· · · -						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	/ious inspections), if	available:				
Remarks: Fringe to/drains into Corlaer Kill.							

## **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Tree Stratum (Plot size: 30' )  1. Quercus palustris	10	Species? Yes	FACW	Dominance rest worksheet.			
Quercus palusiris     Quercus bicolor	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)			
3.							
4.				Total Number of Dominant Species Across All Strata: 6 (B)			
5.							
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)			
7.				Prevalence Index worksheet:			
	15	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 5 x 1 = 5			
1. Cornus amomum	30	Yes	FACW	FACW species 120 x 2 = 240			
2. Cornus racemosa	30	Yes	FAC	FAC species35 x 3 =105			
3. Lonicera morrowii	15	Yes	FACU	FACU species15 x 4 =60			
4.				UPL species0 x 5 =0			
5				Column Totals: 175 (A) 410 (B)			
6.				Prevalence Index = B/A = 2.34			
7.				Hydrophytic Vegetation Indicators:			
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
1. Onoclea sensibilis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Cornus amomum	15	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Solidago gigantea	10	No	FACW	data in Remarks or on a separate sheet)			
4. Prunella vulgaris	5	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Carex stricta	5	No	OBL	Indicators of hydric soil and wetland hydrology must			
6.				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
1				height.			
2				Hadron badio			
3				Hydrophytic Vegetation			
4				Present?			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: P6-Q Wet (PSS)

SOIL Sampling Point P6-Q Wet (PSS)

		o the de				ator or co	onfirm the absence of	f indicators.)	
Depth	Matrix			Featur		. 2			
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 2/1	100					Loamy/Clayey		
8-14	2.5Y 3/2	90	10YR 3/4	10	<u> </u>	<u>m</u>	Loamy/Clayey	Distinct redox concentrations	
14-18	2.5Y 4/2	55	10YR 4/6	35	<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox concentrations	
			10YR 2/1	10	<u>d</u>	<u>m</u>			
1			A. Danker and Market A.					L. Den Peter M. Matér	
		etion, Ri	/I=Reduced Matrix, M	IS=Mas	ked Sand	Grains.		L=Pore Lining, M=Matrix.	
Hydric Soil II Histosol (			Dark Surface (S	S7)				or Problematic Hydric Soils <sup>3</sup> : ck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)		Polyvalue Belov	,	ce (S8) (	LRR R.		rairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			MLRA 149B)		() (	<b>.</b> ,		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA	<del></del>		
Stratified	Layers (A5)		High Chroma S	ands (S	311) ( <b>LRI</b>	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )	
Depleted	Below Dark Surface	(A11)	Loamy Mucky N	Mineral	(F1) ( <b>LR</b> I	R K, L)	Iron-Man	iganese Masses (F12) ( <b>LRR K, L, R</b> )	
_	rk Surface (A12)		Loamy Gleyed		F2)			t Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	odic (A17)		Depleted Matrix					ent Material (F21) (outside MLRA 145)	
1	A 144A, 145, 149B)		X Redox Dark Su					allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dark				Other (E:	xplain in Remarks)	
Sandy Gi	eyed Matrix (S4)		Redox Depress Marl (F10) (LRI		0)		<sup>3</sup> Indicato	rs of hydrophytic vegetation and	
	Matrix (S6)		Red Parent Ma		21) /ML F	2Δ 1/15)		d hydrology must be present,	
Stripped	watrix (00)		Red r arent wa	teriai (i	21) (IVILI	VA 143)		disturbed or problematic.	
Restrictive L	ayer (if observed):							·	
Type: _									
Depth (in	ches):						Hydric Soil Presen	nt? Yes X No	
Remarks:									



Wetland P6-Q (PSS community) - View facing northwest.



Wetland P6-Q (PSS community) - Soils

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE	(	City/County: Catskill	/Greene	Sampling Date: 2/2/23		
Applicant/Owner: TDI			State: NY	Sampling Point: P6-Q Wet (PEM)		
Investigator(s): N. Frazer & J. Greaves		Section, Tov	vnship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Concave	Slope %: 10		
Subregion (LRR or MLRA): LRR R	Lat: 42.245672		-73.857339	Datum: NAD83		
Soil Map Unit Name: NrC - Nassau channery			NWI classification:	PEM1		
Are climatic / hydrologic conditions on the site		Voc. v				
, ,	,,	Yes x		explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrol	logynaturally problemati	ic? (If needed	l, explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	ea			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: near flag	P6-Q-6		
Shallow emergent marsh within periodically n	naintained power line ROW.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (	·		
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		Crayfish Burrows (C	,		
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres or Presence of Reduced Iror			n Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction in					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aguitard (D3)				
Inundation Visible on Aerial Imagery (B7)	<del></del> ` '	<del></del> · · · · · · · · · · · · · · · · · ·				
Sparsely Vegetated Concave Surface (B	′ <del></del>	,	X FAC-Neutral Test ([			
Field Observations:	<u> </u>					
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No Depth (inches):	10				
Saturation Present? Yes X	No Depth (inches): _	0 Wetlan	d Hydrology Present?	YesX_ No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

## **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:			
L				Number of Dominant Species			
2.				That Are OBL, FACW, or FAC:3 (A)			
•				Total Number of Dominant			
				Species Across All Strata: 4 (B)			
i				Percent of Dominant Species			
S				That Are OBL, FACW, or FAC:			
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of:Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species 80 x 1 = 80			
. Cornus sericea	5	Yes	FACW	FACW species 27 x 2 = 54			
Lonicera morrowii	5	Yes	FACU	FAC species 0 x 3 = 0			
Fraxinus pennsylvanica	2	No	FACW	FACU species 5 x 4 = 20			
i.				UPL species 0 x 5 = 0			
i				Column Totals: 112 (A) 154 (B			
s				Prevalence Index = B/A = 1.38			
				Hydrophytic Vegetation Indicators:			
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%			
Lythrum salicaria	50	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Solidago gigantea	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
3. Scirpus cyperinus	10	No No	OBL	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
L. Carex stricta	10	No	OBL				
5. Persicaria sagittata	10	No	OBL	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
<u> </u>							
·				Definitions of Vegetation Strata:			
3				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height			
11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12	400	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles:			
Noody Vine Stratum (Plot size: 30' )	100	- rotal Cover		of size, and woody plants less than 3.28 ft tall.			
				Woody vines – All woody vines greater than 3.28 ft in			
				height.			
2				Hydrophytic			
				Vegetation			
l				Present?			
		=Total Cover					

SOIL Sampling Point P6-Q Wet (PEM)

Depth	Matrix			dox Featur				
(inches)	Color (moist)		Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 4/2	85	10YR 3/6	10		<u>m</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	5	d	m_		
13-17	2.5Y 4/2	60	10YR 4/6	40		m	Loamy/Clayey	Prominent redox concentrations
	oncentration, D=Depl	etion, RI	M=Reduced Matrix,	MS=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil Histosol			Dark Surface	(\$7)				for Problematic Hydric Soils <sup>3</sup> : fuck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Polyvalue Be	. ,	ice (S8) i	(I RR R		Prairie Redox (A16) ( <b>LRR K, L, R</b> )
— Black Hi			MLRA 149		.00 (00)	(=,		flucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Su	,	) (LRR F	R. MLRA 1		lue Below Surface (S8) (LRR K, L)
	d Layers (A5)		High Chroma					ark Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	e (A11)	Loamy Muck					anganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	,	Loamy Gleye			, ,		ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	podic (A17)		X Depleted Ma		,			arent Material (F21) (outside MLRA 145)
(MLR	A 144A, 145, 149B)		Redox Dark		<del>-</del> 6)			hallow Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Depleted Dar	rk Surface	e (F7)		Other (	Explain in Remarks)
Sandy G	Gleyed Matrix (S4)		X Redox Depre	ssions (F	8)			
Sandy R	tedox (S5)		Marl (F10) ( <b>L</b>	.RR K, L)			<sup>3</sup> Indicat	tors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent N	∕laterial (F	-21) <b>(ML</b>	RA 145)		and hydrology must be present,
Restrictive I	Layer (if observed):						unies	ss disturbed or problematic.
Туре:								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:								



Wetland P6-Q (PEM community) - View facing east.



Wetland P6-Q (PEM community) - Soils

SITE PHOTOGRAPHS

Segment 10 – Package 6

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE		City/County: Catskill	'Greene	Sampling Date: 2/2/23		
Applicant/Owner: TDI			State: NY	Sampling Point: P6-Q Upl		
Investigator(s): N. Frazer & J. Greaves		Section, Tov	wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 10		
Subregion (LRR or MLRA): LRR R	Lat: 42.245644		-73.857585	 Datum: NAD83		
Soil Map Unit Name: NrC - Nassau channer			NWI classification:			
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
, 0	, ·		al Circumstances" prese			
Are Vegetation, Soil, or Hydro			·			
Are Vegetation, Soil, or Hydro			I, explain any answers in	,		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	ions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled Ar	·ea			
Hydric Soil Present?	Yes No X	within a Wetland?	? Yes	No X		
Wetland Hydrology Present?	Yes No _X	<b>I</b> f yes, optional We	tland Site ID: Upland adja	acent to Wetland P6-Q near flag 6.		
Shared upland data point for the PEM and PaROW.	SS data points for Wetland P6-	Q. Successional shru	ıbland within a periodical	lly maintained power line		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (B10)			
— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	— Hydrogen Sulfide Odor (C		Crayfish Burrows (C	<i>'</i>		
Sediment Deposits (B2)	Oxidized Rhizospheres or					
Drift Deposits (B3)	Presence of Reduced Iron	· ,	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solls (Co)	Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	<del></del> ` '	re)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	·— ` '	.3)	FAC-Neutral Test (	` '		
Field Observations:	,		<u> </u>	/		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):		d Hydrology Present?	Yes NoX_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

## **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1				Number of Dominant Species			
2				That Are OBL, FACW, or FAC:1 (A)			
3				Total Number of Dominant			
4				Species Across All Strata: 3 (B)			
5 6.		<u> </u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/E			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )		- Total Cover		OBL species 0 x1 = 0			
1. Lonicera morrowii	50	Yes	FACU	FACW species 15 x 2 = 30			
2. Rhamnus cathartica	10	No	FAC	FAC species 35 x 3 = 105			
3. Cornus sericea	5	No No	FACW	FACU species 115 x 4 = 460			
4. Rosa multiflora	5	No No	FACU	UPL species 0 x 5 = 0			
5.				Column Totals: 165 (A) 595 (E			
6				Prevalence Index = B/A = 3.61			
7.				Hydrophytic Vegetation Indicators:			
· ·	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
1. Solidago canadensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Penstemon digitalis	25	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporti			
3. Dichanthelium clandestinum	10	No	FACW	data in Remarks or on a separate sheet)			
4. Lonicera morrowii	10	No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
<u> </u>				<del></del>			
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.							
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height			
10.							
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.							
	95	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')		-					
				<b>Woody vines</b> – All woody vines greater than 3.28 ft i height.			
2.							
3.				Hydrophytic			
O.				Vegetation Present? Yes No X			
4.							
		=Total Cover					

Sampling Point:

P6-Q Upl

SOIL Sampling Point P6-Q Upl

Depth (inches)         Matrix (inches)         Redox Features         Color (moist)         % Color (moist)         % Type¹ Loc²         Texture         Remarks           0-9         2.5Y 3/3         100         Loamy/Clayey         Loamy/Clayey           9-16         10YR 4/3         90         10YR 3/6         5 c m         Loamy/Clayey         Distinct redox concentrate           10YR 2/1         5 d m	
9-16 10YR 4/3 90 10YR 3/6 5 c m Loamy/Clayey Distinct redox concentrate	
10YR 2/1 5 d m	วทร
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils <sup>3</sup>	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 14	
— Histic Epipedon (A2) — Polyvalue Below Surface (S8) (LRR R, — Coast Prairie Redox (A16) (LRR K, L, Black Histic (A3) — MLRA 149B) — 5 cm Mucky Peat or Peat (S3) (LRR K	
Hydrogen Sulfide (A4)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Polyvalue Below Surface (S8) (LRR K	
Stratified Layers (A5)  High Chroma Sands (S11) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)	_,
Depleted Below Dark Surface (A11)  Loamy Mucky Mineral (F1) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K	, L, R)
Thick Dark Surface (A12)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLR	
Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside M	.RA 145)
(MLRA 144A, 145, 149B) Redox Dark Surface (F6) Very Shallow Dark Surface (F22)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Other (Explain in Remarks)	
Sandy Gleyed Matrix (S4)  Redox Depressions (F8)	
Sandy Redox (S5) Marl (F10) ( <b>LRR K, L</b> )	a
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Туре:	
Depth (inches): Hydric Soil Present? Yes No	X
Remarks:	



Upland P6-Q - View facing west.



**Upland P6-Q - Soils** 

## **SITE PHOTOGRAPHS**

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE	(	City/County: Catskill	/Greene	Sampling Date: 2/2/23
Applicant/Owner: TDI			State: NY	Sampling Point: P6-P Wet
Investigator(s): N. Frazer & J. Greaves		Section, Tov	 wnship, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Concave	Slope %: 3
Subregion (LRR or MLRA): LRR R	Lat: 42.245522		-73.857992	 Datum: NAD83
Soil Map Unit Name: Nassau channery silt lo			NWI classification:	PSS1
Are climatic / hydrologic conditions on the site		Yes_x		explain in Remarks.)
Are Vegetation , Soil , or Hydrole	•	-	nal Circumstances" prese	,
Are Vegetation, Soil, or Hydrole			d, explain any answers in	
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, ım	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar	rea	
	Yes X No	within a Wetland?		No
Wetland Hydrology Present?	Yes X No	<b>I</b> f yes, optional We	tland Site ID: Near flag	P6-P-2
Remarks: (Explain alternative procedures he				
Shrub swamp within periodically maintained p	ower line ROW.			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	
Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (I	` '
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C	28)
Sediment Deposits (B2)	X Oxidized Rhizospheres on			n Aerial Imagery (C9)
— Drift Deposits (B3)	Presence of Reduced Iron	, ,	Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	, ,
Iron Deposits (B5)	Thin Muck Surface (C7)	·	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)	<del></del> ` '	3)	Microtopographic Re	,
Sparsely Vegetated Concave Surface (B8	3)		X FAC-Neutral Test (D	J5) ————————————————————————————————————
Field Observations: Surface Water Present? Yes	No. V. Donth (inches)			
Water Table Present? Yes	No X Depth (inches): _ No X Depth (inches): _			
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	No X Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)	Depart (mones).	—   Wellan	a riyarology r resent.	103 <u>X</u> 110
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	rious inspections), if	available:	
, , ,				
Remarks:				
Directly abutting an intermittent stream.				

## **VEGETATION** – Use scientific names of plants.

Trace Christians (Districts 201	Absolute	Dominant	Indicator	Damainamaa Taat waxiishaati			
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)			
3				Total Number of Dominant			
4				Species Across All Strata: 5 (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 60.0% (A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species30 x 1 =30			
1. Cornus amomum	40	Yes	FACW	FACW species 90 x 2 = 180			
2. Lonicera morrowii	15	Yes	FACU	FAC species 20 x 3 = 60			
3. Cornus racemosa	10	No	<u>FAC</u>	FACU species 20 x 4 = 80			
4				UPL species0 x 5 =0			
5				Column Totals: 160 (A) 350 (B)			
6.				Prevalence Index = B/A = 2.19			
7.				Hydrophytic Vegetation Indicators:			
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%			
1. Onoclea sensibilis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Lythrum salicaria	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Scirpus cyperinus	10	No	OBL	data in Remarks or on a separate sheet)			
4. Euthamia graminifolia	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
6.				be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
8.				Tree – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height.			
10				Sapling/shrub – Woody plants less than 3 in. DBH			
11				and greater than or equal to 3.28 ft (1 m) tall.			
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless			
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in			
1. Celastrus orbiculatus	5	Yes	FACU	height.			
2				11.45.45.45			
3				Hydrophytic Vegetation			
4				Present?			
	5	=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point: P6-P Wet

SOIL Sampling Point P6-P Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de	•	ı <b>ment t</b> l < Featur		ator or co	onfirm the absence o	t indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	98	7.5YR 3/4	2	С	pl	Loamy/Clayey	Prominent redox concentrations
4-14	10YR 4/2	80	10YR 2/2	5	c	m	Loamy/Clayey	Faint redox concentrations
			7.5YR 3/4	10	c	m_		Distinct redox concentrations
			7.5YR 4/6	5	c	m_		Prominent redox concentrations
14-18	10YR 4/2	60	10YR 5/6	40		<u>m</u>	Loamy/Clayey	Prominent redox concentrations
					_			
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN	 И=Reduced Matrix, М	IS=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S	•	(00)			uck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Polyvalue Belov		ce (S8) (	LRR R,		rairie Redox (A16) (LRR K, L, R)
Black Hi	` '		<b>MLRA 149B</b> ) Thin Dark Surfa		\	MIDA		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ue Below Surface (S8) ( <b>LRR K, L</b> )
	n Sulfide (A4) I Layers (A5)		High Chroma S					rk Surface (S9) (LRR K, L)
	l Layers (A5) I Below Dark Surface	(//11)	Loamy Mucky N					nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	: (A11)	Loamy Gleyed			K K, L)		nt Floodplain Soils (F19) (MLRA 149B)
	oodic (A17)		X Depleted Matrix		(1 2)			rent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		X Redox Dark Su	` '	-6)			allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark	•	,		<u> </u>	Explain in Remarks)
	leyed Matrix (S4)		Redox Depress		, ,			.xpiair ii remaino)
	edox (S5)		Marl (F10) (LRI	•	<b>-</b> ,		<sup>3</sup> Indicato	ors of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) <b>(ML</b> I	RA 145)		nd hydrology must be present,
							unless	s disturbed or problematic.
Restrictive I	_ayer (if observed):							
•	nches):		<u> </u>				Hydric Soil Prese	nt? Yes X No
Remarks:								



Wetland P6-P - View facing northeast.



Wetland P6-P - Soils

**SITE PHOTOGRAPHS** 

## WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

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

Project/Site: CHPE	(	City/County: Catskill	/Greene	Sampling Date: 2/2/23		
Applicant/Owner: TDI			State: NY	Sampling Point: P6-P Upl		
Investigator(s): N. Frazer & J. Greaves		Section, Tov	——— wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 5		
Subregion (LRR or MLRA): LRR R	Lat: 42,245542		-73.857957	Datum: NAD83		
Soil Map Unit Name: NrC - Nassau channery			NWI classification:			
Are climatic / hydrologic conditions on the site		Vac v		explain in Remarks.)		
, ,	31	Yes X	` `			
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrol	<del></del>		d, explain any answers in	,		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled Ar	rea			
Hydric Soil Present?	Yes No X	within a Wetland?	? Yes	No X		
Wetland Hydrology Present?	Yes No X	<b>I</b> f yes, optional We	tland Site ID: Upland adjac	cent to Wetland P6-P near flag P6-P-2		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B	.9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	24)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C		Crayfish Burrows (C8)			
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres or Presence of Reduced Iror					
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	Stunted or Stressed Plants (D1) Soils (C6) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Colle (Co)	Shallow Aguitard (D3)			
Inundation Visible on Aerial Imagery (B7)	<del></del>	(s)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	′ <del></del> ` '	,	FAC-Neutral Test ([	` '		
Field Observations:	<u>·</u>			·		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes No _X_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

Tree Stratum         (Plot size:30')           1	0/ 0	Dominant	Indicator				
	% Cover	Species?	Status	Dominance Test worksheet:			
_				Number of Dominant Species			
2				That Are OBL, FACW, or FAC:(A)			
3				Total Number of Dominant			
4				Species Across All Strata: 6 (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC:16.7%(A/B)			
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0			
1. Lonicera morrowii	30	Yes	FACU	FACW species 0 x 2 = 0			
2. Rhus typhina	20	Yes	UPL	FAC species40 x 3 =120			
3. Cornus racemosa	20	Yes	FAC	FACU species115 x 4 =460			
4. Rosa multiflora	10	No	FACU	UPL species 20 x 5 = 100			
5.				Column Totals: 175 (A) 680 (B)			
6.				Prevalence Index = B/A = 3.89			
7.				Hydrophytic Vegetation Indicators:			
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%			
1. Alliaria petiolata	40	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Solidago canadensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Penstemon digitalis	10	 No	FAC	data in Remarks or on a separate sheet)			
4. Setaria pumila	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Allium schoenoprasum	10	No	FACU	<u> </u>			
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7.				Definitions of Vegetation Strata:			
 8.							
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10.							
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.							
	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30' )		·					
Celastrus orbiculatus	5	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
			17.00	noight.			
				Hydrophytic			
				Vegetation Present? Yes No X			
4.	5	=Total Cover		Present? Yes No X			
· ·		- Fotal Cover					

Sampling Point: P6-P Upl

SOIL Sampling Point P6-P Upl

Profile Descr Depth	iption: (Describe t Matrix	o the de	-	<b>ument th</b> x Featur		ator or co	onfirm the absence o	f indicato	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S
0-2	10YR 3/2	100			-71		Loamy/Clayey			·
2-18	2.5Y 4/3	100					Loamy/Clayey			
2-10	2.51 4/3						Loanny/Clayey			
<sup>1</sup> Type: C=Cor	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore L	ining, M=Mat	rix.
Hydric Soil In	ndicators:						Indicators fo	or Proble	matic Hydric	: Soils³:
Histosol (	A1)		Dark Surface (	S7)			2 cm Mu	ıck (A10)	(LRR K, L, N	LRA 149B)
	pedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,			lox (A16) ( <b>LR</b>	
Black Hist			MLRA 149B	,						(LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf						Surface (S8)	
	Layers (A5)	(111)	High Chroma S						e (S9) ( <b>LRR K</b>	
	Below Dark Surface k Surface (A12)	(A11)	Loamy Mucky Loamy Gleyed			K K, L)				(LRR K, L, R) () (MLRA 149B)
Mesic Spo	, ,		Depleted Matri		1 2)					side MLRA 149B)
	144A, 145, 149B)		Redox Dark Su		6)				k Surface (F2	
	ıcky Mineral (S1)		Depleted Dark	•					Remarks)	_,
	eyed Matrix (S4)		Redox Depress						,	
Sandy Re	dox (S5)		Marl (F10) ( <b>LR</b>	RK, L)			<sup>3</sup> Indicato	rs of hydr	rophytic vege	tation and
Stripped M	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetlan	nd hydrolo	gy must be p	resent,
							unless	disturbe	d or problema	itic.
	ayer (if observed):									
Type: _										
Depth (inc	ches):						Hydric Soil Preser	nt?	Yes	No <u>X</u>
Remarks:							•			



Upland P6-P - View facing east.



**Upland P6-P - Soils** 

Segment 10 – Package 6

# **SITE PHOTOGRAPHS**

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

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

Project/Site: CHPE	(	City/County: Catskill	/ Greene County	Sampling Date: 2/2/2023
Applicant/Owner: TDI			State: NY	Sampling Point: 7A-W Wet (PEM)
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42.243688	•	-73.859335	 Datum: WGS84
Soil Map Unit Name: NrD - Nassau channery		~	NWI classification:	PEM1
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
Are Vegetation , Soil , or Hydrol			nal Circumstances" prese	,
<del></del>	<del></del>		•	<del></del>
Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach	<del></del>		d, explain any answers in	•
Comment of Finance Figure 1	one map one ming camp			portant router co, c.c.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A		
Hydric Soil Present?	Yes X No	within a Wetland?		No
Wetland Hydrology Present?	Yes X No	If yes, optional vve	etland Site ID: near flag	7A-W-50
Remarks: (Explain alternative procedures he				
Purple loosestrife marsh within a periodically	maintained power line KOVV.			
HYDROLOGY				·
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	(B6)
X Surface Water (A1)	Water-Stained Leaves (BS	9)	X Drainage Patterns (I	B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	
—— Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	•
Sediment Deposits (B2)	Oxidized Rhizospheres or	• , ,		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	· ·
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)	1	Shallow Aquitard (D	· ·
Inundation Visible on Aerial Imagery (B7)	·— · ·	s)	Microtopographic Re X FAC-Neutral Test (D	` '
Sparsely Vegetated Concave Surface (B	8)		TAC-Neutral Test (L	J5)
Field Observations:	No Donth (inches):	4		
Surface Water Present? Yes X Water Table Present? Yes	No Y Depth (inches): _			
Saturation Present? Yes	No X Depth (inches): _ Depth (inches): _		d Hydrology Present?	Yes X No
(includes capillary fringe)	NO A Deput (monos).		a nyarology Fresent.	162 <u>V</u> 140
Describe Recorded Data (stream gauge, mor	 nitoring well. aerial photos, prev	vious inspections), if	available:	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,		
Remarks:				
Inundation limited to patchy areas within tire	ruts and other small depression	ıs.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:75.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 70 x 1 = 70
1. Lonicera morrowii	10	Yes	FACU	FACW species 35 x 2 = 70
2. Cornus amomum	5	Yes	FACW	FAC species 0 x 3 = 0
3.				FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
-				Column Totals: 115 (A) 180 (B)
6				Prevalence Index = B/A = 1.57
7	1			
7.	45	-Tetal Cause		Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	60	Yes	OBL_	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Bidens frondosa	20	Yes	FACW	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. Solidago gigantea	10	No	FACW	data in Remarks of on a separate sneet)
4. Persicaria sagittata	10	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Hart All back and a constant and a lands are a small and
	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' )				
				Woody vines – All woody vines greater than 3.28 ft in height.
				g.m
2				Hydrophytic
4.				Vegetation Present? Yes X No
<b>4</b> .	-	-Total Cavar		rieseiit: ies 🔨 No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point: \_7A-W Wet (PEM)

SOIL Sampling Point: 7A-W Wet (PEM)

Depth	Matrix		Redox	x Featur	es		onfirm the absence o	·,
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 2/1	98	10YR 3/6	2	c	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
2-15	2.5Y 4/2	93	10YR 4/6	2	c	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	5	d	m_		
15-18	7.5YR 3/2	80	10YR 4/6	_20_	c	m_	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	5	С	m		Faint redox concentrations
1- 0.0							2,	
Type: C=Co		etion, RN	M=Reduced Matrix, M	S=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S	S7)				uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Polyvalue Belov	w Surfa	ce (S8) (	LRR R,	Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		MLRA 149B)	,				ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Thin Dark Surfa					ue Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)	(4.4.4)	High Chroma S					rk Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky N			RK,L)		nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		F2)			nt Floodplain Soils (F19) (MLRA 149B)
	oodic (A17) <b>A 144A, 145, 149B)</b>		X Depleted Matrix Redox Dark Su		-6)			rent Material (F21) <b>(outside MLRA 145)</b> allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark					Explain in Remarks)
	leyed Matrix (S4)		Redox Depress					Explain in Remarks)
	edox (S5)		Marl (F10) (LRF		0)		<sup>3</sup> Indicate	ors of hydrophytic vegetation and
	Matrix (S6)		Red Parent Mat		21) <b>(M</b> LI	RA 145)		nd hydrology must be present,
	maanx (00)			torial (i	, ( <b>_</b> .			s disturbed or problematic.
	_ayer (if observed):							
Type: _ Depth (ir	achoo):						Hydric Soil Prese	nt? Yes X No
							Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



Wetland 7A-W (PEM community) - View facing east.



Wetland~7A-W~(PEM~community)~-~Soils

**SITE PHOTOGRAPHS** 

Segment 10 – Package 6

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

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

Project/Site: CHPE	City/C	County: Catskill / Greene County	Sampling Date: 2/2/2023
Applicant/Owner: TDI		State: NY	Sampling Point: 7A-W Upl (PEM)
Investigator(s): N. Frazer & J. Greaves		Section, Township, Range:	<u> </u>
Landform (hillside, terrace, etc.): Hillslope	Local relief (c	concave, convex, none): Concave	Slope %: 5
	Lat: 42.243770	Long: -73.859324	 Datum: WGS84
Soil Map Unit Name: NrD - Nassau channery silt lo		NWI classification:	<del></del>
Are climatic / hydrologic conditions on the site typica			explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	·	Are "Normal Circumstances" preser	
Are Vegetation, Soil, or Hydrology _	<u></u>	(If needed, explain any answers in I	
SUMMARY OF FINDINGS – Attach site i			•
SUMMART OF FINDINGS - ALIACH SILE	map snowing sampling	, point iocations, transects, im-	portant reatures, etc.
Hydrophytic Vegetation Present? Yes _		he Sampled Area	
Hydric Soil Present? Yes_		hin a Wetland? Yes	No <u>X</u>
Wetland Hydrology Present? Yes_		es, optional Wetland Site ID: Upland adjac	cent to Wetland 7A-W near flag 50
Remarks: (Explain alternative procedures here or i	' ' '		
Successional old field within periodically maintained	d power line ROW.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is required; che	neck all that apply)	Surface Soil Cracks	
•	Water-Stained Leaves (B9)	Drainage Patterns (E	` '
<del></del> -	Aquatic Fauna (B13)	Moss Trim Lines (B1	•
<del></del>	Marl Deposits (B15)	Dry-Season Water T	· ·
<del></del> -	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	· ·
I — · · · · · — ·	Oxidized Rhizospheres on Livir		n Aerial Imagery (C9)
I —	Presence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	= : : :
	Recent Iron Reduction in Tilled		` ,
	Thin Muck Surface (C7)	? Shallow Aquitard (D	
I '	Other (Explain in Remarks)	Microtopographic Re	*
Sparsely Vegetated Concave Surface (B8)	· ·	FAC-Neutral Test (D	
Field Observations:		<del></del>	
	X Depth (inches):		
Surface Water Present? Yes No Water Table Present? Yes No	X Depth (inches):	<del>-</del>	
Saturation Present? Yes No	X Depth (inches):	Wetland Hydrology Present?	Yes No _X_
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous	inspections), if available:	
Remarks:			

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	7. 00.10.			Number of Dominant Species
2.				That Are OBL, FACW, or FAC:1(A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
<ul><li>5.</li><li>6.</li></ul>		· ——		Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1. Lonicera morrowii	10	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 20 x 3 = 60
3.				FACU species 80 x 4 = 320
4.				UPL species 5 x 5 = 25
5.				Column Totals: 105 (A) 405 (B)
6.				Prevalence Index = B/A = 3.86
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		-		2 - Dominance Test is >50%
1. Solidago canadensis	60	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Setaria pumila	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lonicera morrowii	5	No	FACU	data in Remarks or on a separate sheet)
4. Potentilla simplex	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Monarda punctata	5	No	UPL	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			
(	,			

Sampling Point: 7A-W Upl (PEM)

SOIL Sampling Point 7A-W Upl (PEM)

		o the de	-			ator or co	onfirm the absence of inc	licators.)
Depth	Matrix	0/		x Featur		1 2	Tardina	Damarka
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-9	10YR 3/3	100					Loamy/Clayey	
								_
1					. —		2	
	ncentration, D=Deple	etion, RN	M=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		ore Lining, M=Matrix.
Hydric Soil In								roblematic Hydric Soils <sup>3</sup> :
— Histosol (	·		Dark Surface (					A10) ( <b>LRR K, L, MLRA 149B</b> )
I —	pedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		e Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B	•				Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf					elow Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					urface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		ese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Dar	k Surface (A12)		Loamy Gleyed		F2)		Piedmont Flo	oodplain Soils (F19) ( <b>MLRA 149B</b> )
Mesic Sp	odic (A17)		Depleted Matri	ix (F3)			Red Parent N	Material (F21) (outside MLRA 145)
(MLRA	A 144A, 145, 149B)		Redox Dark St	urface (F	<del>-</del> 6)		Very Shallow	v Dark Surface (F22)
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Expla	in in Remarks)
Sandy Gl	eyed Matrix (S4)		Redox Depres	sions (F	8)			
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	RK, L)			<sup>3</sup> Indicators o	f hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hy	drology must be present,
							unless dist	turbed or problematic.
Restrictive L	ayer (if observed):							
Type:	Rock	<						
Depth (in	ches):	9					Hydric Soil Present?	Yes No X
Remarks:	,							<del></del>
Nemarks.								



 $\ \, \textbf{Upland 7A-W (PEM community) - View facing} \\$ 



 $\ \, \textbf{Upland 7A-W (PEM community) - Soils} \\$ 

Segment 10 – Package 6

# SITE PHOTOGRAPHS

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

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

Project/Site: CHPE	(	City/County: Catskill	/ Greene County	Sampling Date: 2/2/2023
Applicant/Owner: TDI			State: NY	Sampling Point: 7A-W Wet (PFO)
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	ex. none): Convex	Slope %: 3
Subregion (LRR or MLRA): LRR R	Lat: 42.244490	•	-73.858448	· Datum: WGS84
Soil Map Unit Name: NrD - Nassau channery		5	NWI classification:	<del></del>
<del></del>		Voc. v		
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	<del></del>
Are Vegetation, Soil, or Hydrol	ogynaturally problemati	ic? (If needed	d, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: near flag	7A-W-7
Remarks: (Explain alternative procedures he White cedar wetland.	re or in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	(B6)
Surface Water (A1)	X Water-Stained Leaves (BS	9)	X Drainage Patterns (I	•
—— High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
X Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	· ·
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	X Geomorphic Position Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		re)	Microtopographic Re	·
Sparsely Vegetated Concave Surface (Bi	· <del></del>	5)	X FAC-Neutral Test (	` '
Field Observations:			<u></u>	,
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes X	No Depth (inches): _		d Hydrology Present?	Yes _ X _ No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

ree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Thuja occidentalis	50	Yes	FACW	
. Acer rubrum	10	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
Fraxinus pennsylvanica	10	No	FACW	matric obt, thow, of the
			17011	Total Number of Dominant Species Across All Strata: 6 (B)
		-		
·		· ——		Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
		<del></del>		Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )		- 10(a) 00(c)		OBL species 0 x 1 = 0
Fraxinus pennsylvanica	10	Yes	FACW	FACW species 90 x 2 = 180
	5	Yes	FACU	' <del></del>
	2			· — —
. Rosa multiflora		No	FACU	FACU species 7 x 4 = 28  UPL species 0 x 5 = 0
		·		Column Totals: 107 (A) 238 (B
·		<del></del>		Prevalence Index = B/A = 2.22
·	47	-Tatal Causa		Hydrophytic Vegetation Indicators:
Look Objectives (Diet siege 51	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:5')	40	.,	E4 014/	X 2 - Dominance Test is >50%
Onoclea sensibilis	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Fraxinus pennsylvanica	5	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportindata in Remarks or on a separate sheet)
. Cornus amomum	5	Yes	FACW_	, ,
·		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
i				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height.
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.		· · · · · · · · · · · · · · · · · · ·		Hawk All barbassaus (non woody) plants regardless
	20	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30' )		-		Washings Allineady since anathom 2 20 ft in
·				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
		<del></del>		-
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		133

SOIL Sampling Point 7A-W Wet (PFO)

		o the de	-			ator or co	onfirm the absence of	f indicators.)
Depth	Matrix	0/		Featur		12	Taratrona	Damanta
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 2/1	98	10YR 3/6		<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
13-18	2.5Y 2.5/1	65	10YR 4/6	30	<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	5	C	<u>m</u>		Faint redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix, M	S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil In	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Dark Surface (S	S7)			2 cm Mu	ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		Polyvalue Belov	w Surfa	ce (S8) (	LRR R,	Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B)	)			5 cm Mu	icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	Sulfide (A4)		Thin Dark Surfa					e Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		High Chroma S					k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Mucky N			R K, L)		nganese Masses (F12) ( <b>LRR K, L, R</b> )
	k Surface (A12)		Loamy Gleyed		F2)			nt Floodplain Soils (F19) (MLRA 149B)
I —	odic (A17)		Depleted Matrix		-0\			ent Material (F21) (outside MLRA 145)
-	A 144A, 145, 149B)		X Redox Dark Su					allow Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark		, ,		Other (E	xplain in Remarks)
	eyed Matrix (S4)		Redox Depress		8)		31	un af hardunauhadin arabatina and
Sandy Re			Marl (F10) (LRI		(24) <b>(84)</b> F	DA 445)		ors of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	teriai (F	21) (MLI	KA 145)		d hydrology must be present, disturbed or problematic.
Restrictive L	ayer (if observed):							'
Type: _								
Depth (in	ches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								



Wetland 7A-W (PFO community) - View facing east.



Wetland~7A-W~(PFO~community)~-~Soils

**SITE PHOTOGRAPHS** 

Segment 10 – Package 6

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

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

Project/Site: CHPE		City/County: Catskill	/ Greene County	Sampling Date: 2/2/2023			
Applicant/Owner: TDI			State: NY	Sampling Point: 7A-W Upl (PFO)			
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	ex, none): Convex	Slope %: 15			
Subregion (LRR or MLRA): LRR R	Lat: 42.243406	•	-73.858858	 Datum: WGS84			
Soil Map Unit Name: NrD - Nassau channery		~	NWI classification:				
Are climatic / hydrologic conditions on the site		Yes x	No (If no,	explain in Remarks.)			
Are Vegetation , Soil , or Hydrol			nal Circumstances" prese	,			
<del></del>			·				
Are Vegetation, Soil, or Hydrol	<u></u>		d, explain any answers in	•			
SUMMARY OF FINDINGS – Attach	site map snowing samp	pling point loca	tions, transects, in	iportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	7A-W-7			
Remarks: (Explain alternative procedures he	ere or in a separate report.)						
Mixed evergreen/deciduous forest.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks				
Surface Water (A1)	Water-Stained Leaves (B	<del></del> (9)	Drainage Patterns (	ns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C				
Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed				
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)					
Iron Deposits (B5)	Thin Muck Surface (C7)	1	Shallow Aquitard (D	·			
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· <del></del> · · ·	is)	Microtopographic R FAC-Neutral Test (I	` '			
Field Observations:	0)	<del></del>	FAC-Neutial Test (I	D5)			
Surface Water Present? Yes	No X Depth (inches):						
	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		d Hydrology Present?	Yes No _X_			
(includes capillary fringe)	77 Bakar (manaz)		a 11, a. 0.09, 000				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:				
		·					
Remarks:							

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
	20	Yes	FACW	Dominance rest worksheet.		
				Number of Dominant Species		
2. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC:(A)		
3. Acer saccharum	20	Yes	FACU	Total Number of Dominant		
4. Pinus strobus	20	Yes	FACU	Species Across All Strata: 8 (B)		
<ul><li>5. Quercus rubra</li><li>6</li></ul>	20	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)		
7.				Prevalence Index worksheet:		
	100	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 0 x1 = 0		
1. Acer saccharum	5	Yes	FACU	FACW species 20 x 2 = 40		
2.				FAC species 20 x 3 = 60		
3.				FACU species 83 x 4 = 332		
Δ				UPL species 0 x 5 = 0		
5.				Column Totals: 123 (A) 432 (B)		
6.				Prevalence Index = B/A = 3.51		
7.				Hydrophytic Vegetation Indicators:		
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%		
1. Alliaria petiolata	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Symphyotrichum ericoides	8	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
2			17.00	data in Remarks or on a separate sheet)		
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5 6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7.				Definitions of Vegetation Strata:		
8.						
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12				Herb – All herbaceous (non-woody) plants, regardless		
	18	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in		
1.		·		height.		
2.				Hydrophytic		
3.				Vegetation		
4		·		Present?		
		=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Sampling Point: 7A-W Upl (PFO)

SOIL Sampling Point: 7A-W Upl (PFO)

		the de				tor or co	onfirm the absence of	indicators.)	
Depth	Matrix			Redox Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 2/2	100					Loamy/Clayey		
1 <sub>Turner</sub> C=Ce	ncentration, D=Deple	tion DM	——————————————————————————————————————		——	Crains	2l acation: DI	=Pore Lining, M=Matrix.	
Hydric Soil I		tion, Kiv	i-Reduced Mailix,	IVIO-IVIASI	keu Sanc	i Giallis.		r Problematic Hydric Soils <sup>3</sup> :	
-			Dork Surface	(87)				-	
— Histosol (	•		Dark Surface Polyvalue Bel		00 (80) (1	DD D		k (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)				ce (36) (i	LKK K,		airie Redox (A16) (LRR K, L, R)	
Black His	n Sulfide (A4)		MLRA 149		/I DD D	MI DA 1		ky Peat or Peat (S3) (LRR K, L, R)	
	Layers (A5)		Thin Dark Sur High Chroma					Below Surface (S8) ( <b>LRR K, L</b> ) Surface (S9) ( <b>LRR K, L</b> )	
		(111)							
	Below Dark Surface	(A11)	Loamy Mucky			K N, L)		ganese Masses (F12) (LRR K, L, R)	
	rk Surface (A12)		Loamy Gleye		F2)			Floodplain Soils (F19) (MLRA 149B)	
	odic (A17)		Depleted Mat		·e)			nt Material (F21) (outside MLRA 145)	
	A 144A, 145, 149B)		Redox Dark S	-	-			llow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dar		` '		— Other (Ex	plain in Remarks)	
	eyed Matrix (S4)		Redox Depre		0)		31	a af budua budia wa watati wa awal	
	edox (S5)		Marl (F10) ( <b>L</b> l		04) /BAL F	) A 445\		s of hydrophytic vegetation and	
Stripped	Matrix (S6)		Red Parent M	iateriai (F	21) (MLF	KA 145)		I hydrology must be present,	
Postrictivo I	ayer (if observed):						uniess	disturbed or problematic.	
Type:	Rock	(							
	ches):	6					Hydric Soil Present	? Yes No X	
							Trydrio Con i Toccin	103 NO_X_	
Remarks:									



Upland 7A-W (PFO community) - View facing south.



 $\ \, \textbf{Upland 7A-W (PFO community) - Soils} \\$ 

Segment 10 – Package 6

# **SITE PHOTOGRAPHS**

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

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

Project/Site: CHPE	City/County: Catskill / Greene County Sa	ampling Date: 1/31/23			
Applicant/Owner: TDI	State: NY	Sampling Point: FA-AP, AO, AN Wet			
Investigator(s): N. Frazer & J. Greaves	Section, Township, Range:				
Landform (hillside, terrace, etc.): depression/ponded Local i	relief (concave, convex, none): concave	Slope %: 0			
Subregion (LRR or MLRA): LRR R Lat: 42-14-35.07N	Long: 73-51-33.73W	 Datum: WGS84			
Soil Map Unit Name: Nassau channery silt loam (NrD)		EM			
Are climatic / hydrologic conditions on the site typical for this time of year?	<del></del>				
, , ,		lain in Remarks.)			
Are Vegetation, Soil, or Hydrologysignificantly distur					
Are Vegetation, Soil, or Hydrologynaturally problems		•			
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, impo	rtant features, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present?  Yes X No	-	lo			
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID: near flag 7A	-X-10			
Remarks: (Explain alternative procedures here or in a separate report.)					
Shallow emergent marsh.					
HVDDOLOOV					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minir	· · · · · · · · · · · · · · · · · · ·			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (Bi	•			
X Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10 Moss Trim Lines (B16)				
High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)  Hydrogen Sulfide Odor (					
Sediment Deposits (B2)  Sediment Deposits (B2)  Oxidized Rhizospheres of		erial Imagery (C9)			
Drift Deposits (B3)  Presence of Reduced Inc.		=			
Algal Mat or Crust (B4)  Recent Iron Reduction in					
Iron Deposits (B5)  Thin Muck Surface (C7)	· /	- – ,			
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<del></del>	f (D4)			
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)	, .			
Field Observations:					
Surface Water Present? Yes x No Depth (inches):	5				
Water Table Present? Yes No x Depth (inches):					
Saturation Present? Yes No _x Depth (inches):	Wetland Hydrology Present?	YesX_ No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					
ponded					

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
				Number of Dominant Species			
<u> </u>				That Are OBL, FACW, or FAC:5 (A)			
	-			Total Number of Dominant Species Across All Strata: 5 (B)			
5.				``			
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B			
). 							
·				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:15')				OBL species40 x 1 =40			
Fraxinus pennsylvanica	5	Yes	FACW	FACW species 20 x 2 = 40			
Cornus amomum	5	Yes	FACW	FAC species 0 x 3 = 0			
3				FACU species0 x 4 =0			
·				UPL species0 x 5 =0			
j.				Column Totals: 60 (A) 80 (B			
j.				Prevalence Index = B/A = 1.33			
				Hydrophytic Vegetation Indicators:			
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )		rotal Gover		X 2 - Dominance Test is >50%			
	00	V	OPI	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
. Carex stricta	20	Yes	OBL	·   <del></del>			
2. <u>Lythrum salicaria</u>	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
3. Onoclea sensibilis	10	Yes	FACW				
l							
5				<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
S							
·				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 and greater than or equal to 3.28 ft (1 m) tall.			
2				and greater than or equal to 0.20 it (1 iii) tail.			
2	50	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Voody Vine Stratum (Plot size: 30' )				Woody vines – All woody vines greater than 3.28 ft in			
				height.			
2.							
				Hydrophytic			
				Vegetation Present? Yes X No			
l				Present?			
		=Total Cover					

SOIL Sampling Point: FA-AP, AO, AN Wet

Profile Desc	ription: (Describe t	to the de				tor or co	nfirm the absence of	indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
	·								
1						<del></del> ·	2		
	ncentration, D=Depl	etion, RM	1=Reduced Matrix, N	1S=Masl	ked Sand	Grains.		=Pore Lining, M=Matrix.	
Hydric Soil I								r Problematic Hydric Soils <sup>3</sup> :	
Histosol (	· · · · · ·		Dark Surface (					ck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	_RR R,		airie Redox (A16) (LRR K, L, R)	
Black His			MLRA 149B	,				cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Thin Dark Surf		-			e Below Surface (S8) ( <b>LRR K, L</b> )	
	Layers (A5)		High Chroma S					Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	Loamy Mucky			R K, L)		ganese Masses (F12) ( <b>LRR K, L, R</b> )	
	rk Surface (A12)		Loamy Gleyed		F2)			t Floodplain Soils (F19) ( <b>MLRA 149E</b>	
Mesic Sp	odic (A17)		Depleted Matri	x (F3)				ent Material (F21) <b>(outside MLRA 1</b> 4	
(MLR	A 144A, 145, 149B)		Redox Dark Su		-			llow Dark Surface (F22)	
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	plain in Remarks)	
	eyed Matrix (S4)		Redox Depress		8)		•		
	edox (S5)		Marl (F10) ( <b>LR</b>					rs of hydrophytic vegetation and	
Stripped	Matrix (S6)		Red Parent Ma	terial (F	21) <b>(MLF</b>	RA 145)	wetland hydrology must be present,		
							unless	disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type: _									
Depth (in	ches):						Hydric Soil Presen	t? Yes X No	
Remarks:									
	undated and domina	ated by O	BL and FACW spec	ies. ther	efore soi	ls were n	ot obtained.		
		,	·	•					



Wetland 7A-X-10 - View facing southwest.



Wetland 7A-X-10 - Soils

Segment 10 – Package 6

# **SITE PHOTOGRAPHS**

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

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

Project/Site: CHPE	(	City/County: Catskill	/ Greene County	Sampling Date: 1/31/23		
Applicant/Owner: TDI			State: NY	Sampling Point: FAAP, AO, AN Upland		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): hillslope	Local re	elief (concave, conve	x, none): convex	Slope %: 3		
Subregion (LRR or MLRA): LRR R	Lat: 42-14-34.95N	•	73-51-33.54W	 Datum: WGS84		
Soil Map Unit Name: Nassau channery silt lo		5	NWI classification:			
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
, ,	,,		` `			
Are Vegetation, Soil, or Hydrole			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrolo	· <u></u>		d, explain any answers in	·		
SUMMARY OF FINDINGS – Attach s	site map snowing samp	Diing point ioca	lions, transects, iiii	iportant reatures, etc.		
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea			
'	Yes No X	within a Wetland		No X		
Wetland Hydrology Present?	Yes No _X	If yes, optional We	etland Site ID: near flag	7A-X-10		
Remarks: (Explain alternative procedures he	re or in a separate report.)					
forested upland						
HYDROLOGY						
			Casandani Indicators (n	-ii		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	ed: check all that annly)		Surface Soil Cracks	ninimum of two required)		
Surface Water (A1)	Water-Stained Leaves (B	(0)	Drainage Patterns (			
High Water Table (A2)	Aquatic Fauna (B13)	9)	Moss Trim Lines (B	·		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	·		
Water Marks (B1)	Hydrogen Sulfide Odor (C					
Sediment Deposits (B2)	Oxidized Rhizospheres or	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron	on (C4) Stunted or Stressed Plants (D1)				
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)	·	s)	Microtopographic R	, ,		
Sparsely Vegetated Concave Surface (B8	3)		FAC-Neutral Test ([	O5)		
Field Observations:						
Surface Water Present? Yes	No x Depth (inches): _					
Water Table Present? Yes	No x Depth (inches):			W N- V		
Saturation Present? Yes	No x Depth (inches):	Wetian	d Hydrology Present?	Yes No _X_		
(includes capillary fringe)  Describe Recorded Data (stream gauge, mon	sitoring well perial photos prev	vious inspections) if	available:			
Describe Necolded Data (Stream gauge, mon	Moning well, actial photos, prov	nous mapecaona <sub>j</sub> , n	avalianie.			
Remarks:						

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	50	Yes	FACU	
Ostrya virginiana	10	No	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1. Pinus strobus	20	Yes	FACU	FACW species 0 x 2 = 0
2. Fagus grandifolia	10	Yes	FACU	FAC species0 x 3 =0
3. Rubus allegheniensis	2	No	FACU	FACU species108 x 4 =432
4.				UPL species0 x 5 =0
5				Column Totals: 108 (A) 432 (B)
6.				Prevalence Index = B/A =4.00
7				Hydrophytic Vegetation Indicators:
	32	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				2 - Dominance Test is >50%
1. Fagus grandifolia	15	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Juniperus virginiana	1	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	16	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				Lhadronhadia
3				Hydrophytic Vegetation
4.				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: FA-AP, AO, AN Upland

SOIL Sampling Point FA-AP, AO, AN Upland

	•	the de	•			tor or co	onfirm the absence of ind	licators.)
Depth	Matrix			x Featur		. 2	<b>-</b> .	
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Loamy/Clayey	
4-10	2.5Y 4/3	100					Loamy/Clayey	
								_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	MS=Masi	ked Sand	Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for Pr	roblematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Dark Surface (				2 cm Muck (	A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		Polyvalue Belo		ce (S8) ( <b>I</b>	LRR R,		e Redox (A16) ( <b>LRR K, L, R</b> )
Black His			MLRA 149B					Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surf					elow Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	(111)	High Chroma S					urface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R)
	k Surface (A12)	(A11)	Loamy Gleyed			Χ <b>(</b> , L)		podplain Soils (F19) (MLRA 149B)
	odic (A17)		Depleted Matri		)			Material (F21) (outside MLRA 145)
	144A, 145, 149B)		Redox Dark S		6)			Dark Surface (F22)
Sandy Mu	icky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Expla	in in Remarks)
Sandy Gl	eyed Matrix (S4)		Redox Depres	sions (F	8)		<del></del>	
Sandy Re			Marl (F10) ( <b>LR</b>				<sup>3</sup> Indicators of	f hydrophytic vegetation and
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	-	drology must be present,
Dantulativa I							unless dist	turbed or problematic.
Type:	ayer (if observed): rock							
-							Uhadai - O - il Bassa 40	V N- V
	ches):	10					Hydric Soil Present?	Yes No _X
Remarks:								



Upland 7A-X-10 - View facing east.



Upland 7A-X-10 - Soils

**SITE PHOTOGRAPHS** 

Segment 10 – Package 6

# ATTACHMENT 2 NWI, NYSDEC WETLAND & STREAM MAPS

