Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-13				
Applicant/Owner: NextEra		State: NY	Sampling Po	oint: W-JJB-31; PSS-1			
Investigator(s): Jake Brillo, Isaac	: Pallant	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 1-10			
Subregion (LRR or MLRA): LR	RR L	Lat: 43.052762062	3 Long: -78.087550	1969 <b>Datum:</b> WGS84			
Soil Map Unit Name: Ovid silt lo	oam, 3 to 8 percent slopes		NWI cl	lassification: PEM			
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no, explain in R	Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumstances" pres	sent? Yes 🟒 No			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers ir	າ Remarks.)			
SUMMARY OF FINDINGS - At	ttach site map showing samplir	ng point locations, trai	nsects, important f	eatures, etc.			
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No						
Hydric Soil Present?	Yes No	Is the Sampled Area with	n a Wetland?	Yes/_ No			
,		i ·					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-JJB-31			
Remarks: (Explain alternative pro	cedures here or in a separate report;	)					
TRC covertype is PSS. Wetter than	າ average year, beaver impacts						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of o	one is required; check all that apply)		Secondary Indicators	(minimum of two required)			
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks				
High Water Table (A2)	Aquatic Fauna (B1	3)	Drainage Patterns (B10)				
<u></u> Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (E				
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Crayfish Burrows (				
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayiisi Burrows (Co) Saturation Visible on Aerial Imagery (C9)				
Drift Danasits (R3)	Prosonce of Podus	sed Iron (CA)	Stunted or Stressed Plants (D1)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduce	ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)				
Inundation Visible on Aerial In			Microtopographic				
Sparsely Vegetated Concave S		,	FAC-Neutral Test (I				
Field Observations:							
Surface Water Present?	Yes No 🟒 Depth	(inches):					
Water Table Present?		(inches):	Wetland Hydrology Pr	resent? Yes No			
Saturation Present?		(inches): 0					
(includes capillary fringe)	163 <u>v</u> 110 Deptil	(menes). <u> </u>					
	gauge, monitoring well, aerial photos	\(\dot\) if		<u> </u>			
Describe Recorded Data (stream	gauge, monitoring well, aerial priotos	s, previous irispections), ii d	avaliable.				
Remarks:							

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant Sp Are OBL, FACW, or FAC:		4	(A)
l				Total Number of Domina Across All Strata:	ant Species	4	(B)
3. 4.				Percent of Dominant Sp Are OBL, FACW, or FAC:	ecies That	100	(A/B)
5				Prevalence Index works	neet:		
5.				Total % Cover o	<u>of:</u>	Multiply I	<u>Зу:</u>
7				OBL species	30	x 1 =	30
	0	= Total Cov	er	FACW species	35	x 2 =	70
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	120	x 3 =	360
. Cornus racemosa	45	Yes	FAC	FACU species	0	x 4 =	0
2. Cornus amomum	20	Yes	FACW	UPL species	0	x 5 =	0
3. Fraxinus pennsylvanica	15	No	FACW	Column Totals	185	(A)	460 (B)
. Salix nigra	10	No	OBL	Prevalence Inc		_	(-)
5							
5				Hydrophytic Vegetation		/t-ti	
7.				1- Rapid Test for Hy		egetation	
	90	= Total Cov	er	2 - Dominance Test			
Herb Stratum (Plot size: 5 ft )		_		3 - Prevalence Inde			
. Agrimonia parviflora	65	Yes	FAC	4 - Morphological A	•		supporting
2. Carex vulpinoidea	20	Yes	OBL	data in Remarks or on a			
3. Rumex crispus	10	No	FAC	Problematic Hydro			
l.		110	1710	¹Indicators of hydric soil		-	gy must be
				present, unless disturbe		matic	
				Definitions of Vegetation			
5				Tree – Woody plants 3 in			liameter a
7				breast height (DBH), reg			
3				Sapling/shrub - Woody			BH and
9				greater than or equal to			
0				Herb – All herbaceous (r			ardless of
11				size, and woody plants l			20.6.
12				Woody vines – All woody	/ vines great	ter than 3	28 ft in
	95	= Total Cov	er	height.			
Noody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	Present? \	∕es <u> </u>	0
i.							
2.				•			
3.				•			
4.				-			
		= Total Cov	or	-			
		_ TOTAL COV	ei				

Type: C = Concent Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfic Stratified Layer Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Plindicators of hydro Restrictive Layer (if Type: Depth (	ors:  n (A2) 3) ide (A4) rs (A5) w Dark Surfa face (A12) Vineral (S1) Matrix (S4) S5) x (S6)	96	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Depleted Da Redox Dark Depleted Da Redox Depre	elow Suurface (ky Mine ed Matrix (F. Surfacark Surression:	C	Masked Sand Grains 8) (LRR R, MLRA 149 R, MLRA 149B) (LRR K, L)	Indicators for  B) 2 cm Mucl Coast Prai 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shallo	Remarks  Problematic Hydric Soils³:  k (A10) (LRR K, L, MLRA 149B)  rie Redox (A16) (LRR K, L, R)  ky Peat or Peat (S3) (LRR K, L, R)  ace (S7) (LRR K, L)  Below Surface (S8) (LRR K, L)  Surface (S9) (LRR K, L)  ganese Masses (F12) (LRR K, L, R)  Floodplain Soils (F19) (MLRA 149B)  dic (TA6) (MLRA 144A, 145, 149B)  at Material (F21)  ow Dark Surface (TF12)  plain in Remarks)
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lydric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfic Stratified Layer Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S) Indicators of hydro Lestrictive Layer (if Type: Depth (	ors:  n (A2) 3) ide (A4) rs (A5) w Dark Surfa face (A12) Vineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Depleted Da Redox Dark Depleted Da Redox Depre	elow Suurface ky Mind ed Mat atrix (F. Surfac ark Sur ession:	urface (S8 (S9) (LRR eral (F1) ( rix (F2) 3) e (F6) face (F7) s (F8)	8) (LRR R, MLRA 149 R, MLRA 149B) (LRR K, L)	Indicators for  B) 2 cm Mucl Coast Prai 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shallo	Problematic Hydric Soils <sup>3</sup> :  k (A10) (LRR K, L, MLRA 149B)  rie Redox (A16) (LRR K, L, R)  ky Peat or Peat (S3) (LRR K, L, R)  ace (S7) (LRR K, L)  Below Surface (S8) (LRR K, L)  Surface (S9) (LRR K, L)  ganese Masses (F12) (LRR K, L, R)  Floodplain Soils (F19) (MLRA 149B)  dic (TA6) (MLRA 144A, 145, 149B)  at Material (F21)  ow Dark Surface (TF12)  olain in Remarks)
lydric Soil Indicato     Histosol (A1)     Histic Epipedon     Black Histic (A3)     Hydrogen Sulfic     Stratified Layer     Depleted Below     Thick Dark Surf     Sandy Mucky M     Sandy Gleyed N     Sandy Redox (S     Stripped Matrix     Dark Surface (S     Indicators of hydroestrictive Layer (if     Type:     Depth (	ors:  n (A2) 3) ide (A4) rs (A5) w Dark Surfa face (A12) Vineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Depleted Da Redox Dark Depleted Da Redox Depre	elow Suurface ky Mind ed Mat atrix (F. Surfac ark Sur ession:	urface (S8 (S9) (LRR eral (F1) ( rix (F2) 3) e (F6) face (F7) s (F8)	8) (LRR R, MLRA 149 R, MLRA 149B) (LRR K, L)	Indicators for  B) 2 cm Mucl Coast Prai 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shallo	Problematic Hydric Soils <sup>3</sup> :  k (A10) (LRR K, L, MLRA 149B)  rie Redox (A16) (LRR K, L, R)  ky Peat or Peat (S3) (LRR K, L, R)  ace (S7) (LRR K, L)  Below Surface (S8) (LRR K, L)  Surface (S9) (LRR K, L)  ganese Masses (F12) (LRR K, L, R)  Floodplain Soils (F19) (MLRA 149B)  dic (TA6) (MLRA 144A, 145, 149B)  at Material (F21)  ow Dark Surface (TF12)  olain in Remarks)
Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfic Stratified Layer Depleted Below Thick Dark Surf. Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydrotestrictive Layer (if Type: Depth (	n (A2) 3) ide (A4) rs (A5) w Dark Surfa face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Thin Dark St Loamy Muck Loamy Gleye _	urface ( ky Mine ed Mat atrix (F. Surfac ark Sur ession:	(S9) (LRR eral (F1) ( rix (F2) 3) e (F6) face (F7) s (F8)	R, MLRA 149B) (LRR K, L)	B) 2 cm Mucl Coast Prai 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shalla	k (A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) olain in Remarks)
Histic Epipedon Black Histic (A3) Hydrogen Sulfic Stratified Layer Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydrotestrictive Layer (if Type: Depth (	3) ide (A4) rs (A5) w Dark Surfa face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Thin Dark St Loamy Muck Loamy Gleye _	urface ( ky Mine ed Mat atrix (F. Surfac ark Sur ession:	(S9) (LRR eral (F1) ( rix (F2) 3) e (F6) face (F7) s (F8)	R, MLRA 149B) (LRR K, L)	Coast Prai Coast Prai 5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shall	rie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) blain in Remarks)
Hydrogen Sulfic Stratified Layer Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: Depth (	ide (A4) rs (A5) w Dark Surfa face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Loamy Gleye  Loamy Gleye  Depleted Ma  Redox Dark  Depleted Da  Redox Depr	ed Mat atrix (F. Surfac ark Sur ession:	rix (F2) 3) e (F6) face (F7) s (F8)		5 cm Mucl Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shall	ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) blain in Remarks)
Stratified Layer: Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Restrictive Layer (if	rs (A5) w Dark Surfa face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ace (A11)	Depleted Ma ) Redox Dark Depleted Da Redox Depr	atrix (F. Surfac ark Sur ession:	3) e (F6) face (F7) s (F8)		Dark Surfa Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shalk Other (Exp	ace (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) blain in Remarks)
Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: Depth (	w Dark Surfa face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ace (A11 <u>)</u>	) Redox Dark Depleted Da Redox Depr PB)	Surfac ark Sur ession:	e (F6) face (F7) s (F8)		Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Paren Very Shall	Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) plain in Remarks)
Thick Dark Surf Thick Dark Surf Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: Depth (	face (A12) Mineral (S1) Matrix (S4) S5) x (S6)	ILRA 149	Depleted Da Redox Depr	ark Sur ession	face (F7) s (F8)		Iron-Mang Piedmont Mesic Spo Red Paren Very Shall Other (Exp	ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy Mucky M Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: Depth (	Mineral (S1) Matrix (S4) S5) x (S6)	/ILRA 149	Redox Depr	ession	s (F8)		Piedmont Mesic Spo Red Paren Very Shall Other (Exp	Floodplain Soils (F19) (MLRA 149B) dic (TA6) (MLRA 144A, 145, 149B) at Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy Gleyed N Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: Depth (	Matrix (S4) S5) x (S6)	ILRA 149	9B)			e present, unless dis	Mesic Spo Red Paren Very Shall Other (Exp	dic (TA6) <b>(MLRA 144A, 145, 149B)</b> It Material (F21) ow Dark Surface (TF12) olain in Remarks)
Sandy Redox (S Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: 	S5) x (S6)			drology	must be	e present, unless dis	Red Paren Very Shall Other (Exp	it Material (F21) ow Dark Surface (TF12) olain in Remarks)
Stripped Matrix Dark Surface (S Indicators of hydro Restrictive Layer (if Type: 	x (S6)			drology	must be	e present, unless dis	Very Shallo Other (Εχρ	ow Dark Surface (TF12) olain in Remarks)
Dark Surface (S Indicators of hydro Restrictive Layer (if Type: 				drology	must be	e present, unless dis	Other (Exp	plain in Remarks)
Restrictive Layer (if Type: Depth (		etation a	and wetland hyd	drology	must be	e present, unless dis	•	
Restrictive Layer (if Type: Depth (	ronbuticuos		and welland nyd	ar ology	must be	e present, uniess dis		
Type: Depth (							turbed or problemati	ic.
Depth (	. 0.550. 100,1		Rocks		ŀ	Hydric Soil Present?		Yes No
	(inches):	-	10			,		<del></del>
	·				<u> </u>			

**Vegetation Photos** 



Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee		Sampling Date: 20	19-June-05		
Applicant/Owner: NextEra		State: NY		Sampling Point: W-JJE	3-18; PUB-1		
Investigator(s): Jake Brillo, Nic	:k DeJohn	Section, Township,	Range:				
Landform (hillslope, terrace, etc.	.): Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L	Lat: 43.063321039	1 Long:_	-78.1003478543	_Datum: WGS84		
Soil Map Unit Name: Ovid silt	loam, 3 to 8 percent slopes			NWI classificatio	n:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye		_ <b>√</b> (If no,	explain in Remarks.)			
Are Vegetation, Soil,				·	Yes No		
Are Vegetation, Soil <b>_∠</b> _,	or Hydrology naturally prob	lematic? (If needed,	explain an	y answers in Remarks	.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, im	portant features,	etc.		
Hydrophytic Vegetation Present	t? Yes/_ No						
Hydric Soil Present?	Yes _ <b>_</b> No	Is the Sampled Area within	ithin a Wetland? Yes No				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si			B-18		
	<del></del>	<u> </u>	ite ib.	<u></u>			
Remarks: (Explain alternative pi	rocedures here or in a separate report	t)					
TRC covertype is PUB. Wetter th	ian average year						
HYDROLOGY							
Wetland Hydrology Indicators:							
•	of one is required; check all that apply)			y Indicators (minimum	of two required)		
✓ Surface Water (A1)	<u> ✓</u> Water-Stained Le			e Soil Cracks (B6) age Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B´						
✓ Saturation (A3)	Marl Deposits (B1			Trim Lines (B16) eason Water Table (C2)	1		
✓ Water Marks (B1)	_ <u>✓</u> Hydrogen Sulfide		-	sh Burrows (C8)	,		
Sediment Deposits (B2)	Oxidized Rnizosp	heres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)				
Inundation Visible on Aerial				otopographic Relief (D4)			
Sparsely Vegetated Concave				eutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes 🟒 No Depth	i (inches): 24					
Water Table Present?	Yes No Depth	(inches):	Wetland H	Hydrology Present?	Yes No		
Saturation Present?		i (inches):		- <del></del>	-		
(includes capillary fringe)	Бери		•				
	m gauga manitaring well serial about	o provious increstiens) :f -	ا جاجادات		<u> </u>		
	m gauge, monitoring well, aerial photo	s, previous inspections), if a	avallable:				
Pond							
Remarks:							
A nositive indication of wetland	l hydrology was observed (at least one	nrimany indicator). Large co	noile pilo a	diacent to wetland like	aly an excavated		
pond	nyurology was observed (at least one	primary mulcator). Large s	polis plie a	ujaceni io weliand, lik	ery ari excavated		
pond							

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species Th	at ,	(4)
1. Salix nigra	15	Yes	OBL	Are OBL, FACW, or FAC:	1	(A)
2.				Total Number of Dominant Spec	ies 1	(B)
3.				Across All Strata:		(D)
4.				Percent of Dominant Species Th	at 100	(A/B)
5.				Are OBL, FACW, or FAC:		(/ (/ D)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply E	<u>Ву:</u>
/·	15	- Total Cave		OBL species 15	x 1 =	15
Couling (Church Church une (Dich siege 45 ft )	15	= Total Cove	er .	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
1.				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				Column Totals 15	(A)	15 (B)
4				Prevalence Index = B/A	\ =1	
5.				Hydrophytic Vegetation Indicato		
6	_			1- Rapid Test for Hydrophy		
7				2 - Dominance Test is >50%	_	
	0	= Total Cove	er	✓ 3 - Prevalence Index is ≤ 3		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptati		supporting
1				data in Remarks or on a separat		supporting
2.				Problematic Hydrophytic V		nlain)
3.				Indicators of hydric soil and we	-	
4.				present, unless disturbed or pro		gy must be
5.				Definitions of Vegetation Strata:	<u>Jiematie</u>	
6.				Tree – Woody plants 3 in. (7.6 cm	) or more in c	diameter at
7.				breast height (DBH), regardless		nameter at
8.				Sapling/shrub – Woody plants le		BH and
9.				greater than or equal to 3.28 ft (		Di i dila
40				Herb – All herbaceous (non-woo		ardless of
				size, and woody plants less than		,a. a. c. s
11.				Woody vines – All woody vines g		28 ft in
12				height.		
	0	= Total Cove	er	Hydrophytic Vegetation Presen	7 Vos / N	0
Woody Vine Stratum (Plot size: 30 ft )				Trydrophytic vegetation i resen	: 1631	o
1						
2						
3						
4	_					
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	ite sheet.)					
Tremarks. (include prioto nambers here or on a separa	ite si iceti,					

	•	o the	•			indicato	r or confirm the	e absence of indicators.)
Depth	Matrix		Redox	Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
				_				
		_						
		_						
		_						
		- —		_				
		_		_		· <del></del>		
		- —		_				· -
				_				
							-	
		- —		_				
	_			-	-			
		<del>.</del> –.						
		eplet	ion, RM = Reduce	d Ma	trix, MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck	-		(LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	co (A1	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
l ——	ark Surface (A12)	CE (A I	Depleted Da			')		Thin Dark Surface (S9) (LRR K, L)
	Jucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Bepi	C3310	113 (1 0)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	ledox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_								Red Parent Material (F21)
	d Matrix (S6)	IDA 1	40D)					Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LKA I	490)					Other (Explain in Remarks)
3Indicators	of hydrophytic vege	tation	n and wetland hyd	Irolog	gy must b	e preser	nt, unless distur	rbed or problematic.
Restrictive	Layer (if observed):							
	Type:		None			Hydric	Soil Present?	Yes/_ No
	Depth (inches):			•		1		
Remarks:								<del>.</del>
nemans.								
Due to inur	ndation a clear soil p	orofile	was unobtainable	e. Soi	ls are ass	sumed to	be hydric.	
	•						-	

Hydrology Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byron, Genesee County	Sampling Date	: 2019-May-30
Applicant/Owner: NextEra	State:	New York Sampling Point:	W-JDV-11; PFO-1
Investigator(s): Jeff Vandeveer, IBP	Section, Townsh	nip, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, c	onvex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA): LRR L	Lat: 43.076810	9 Long: -78.1002442	Datum: WGS84
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe			ication: None
Are climatic/hydrologic conditions on the site typica		No (If no, explain in Rema	arks.)
		rmal Circumstances" present?	Yes _ <b>✓</b> No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If need	ed, explain any answers in Ren	narks.)
SUMMARY OF FINDINGS – Attach site map s	showing sampling point locations, t	ransects, important featu	res, etc.
Hydrophytic Vegetation Present? Yes _	✓_ No		
	✓ No Is the Sampled Area w	ithin a Wetland?	Yes/_ No
	No If yes, optional Wetlan		W-JDV-11
Remarks: (Explain alternative procedures here or in		d Site ib.	
TRC covertype is PFO. Area is wetland, all three wet	land parameters are present.		
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; ch	eck all that apply)	Secondary Indicators (mini	mum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	✓ Drainage Patterns (B10	)
	Marl Deposits (B15)	Moss Trim Lines (B16)	- (C2)
	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table -3) Crayfish Burrows (C8)	e (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	3) Craylish Burrows (Co) Saturation Visible on A	erial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Pla	<b>3</b> ,
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (E	
	Thin Muck Surface (C7)	Shallow Aquitard (D3)	•
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relie	f (D4)
Sparsely Vegetated Concave Surface (B8)		✓ FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches): 8	Wetland Hydrology Presen	t? Yes No
Saturation Present? Yes 🟒 No _	Depth (inches): 3		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections)	, if available:	
Remarks:			
A positive indication of wetland hydrology was obs	erved (primary and secondary indicators v	vere present).	

Tree Stratum (Plot size: 30 ft )		Dominant Species?	Indicator Status	Dominance Test workshe Number of Dominant Sp			(4)
1. <i>Fraxinus pennsylvanica</i>	45	Yes	FACW	Are OBL, FACW, or FAC:		7	(A)
2. Acer negundo 3.	20	Yes	FAC	Total Number of Domina Across All Strata:	nt Species	7	(B)
4.				Percent of Dominant Spe Are OBL, FACW, or FAC:	ecies That	100	(A/B)
5				Prevalence Index worksh	eet:		<u> </u>
6	. ——			Total % Cover o	<u>f:</u>	Multiply	<u>By:</u>
7				- OBL species	0	x 1 =	0
	65	= Total Cov	er	FACW species	87	x 2 =	174
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species	47	x 3 =	141
1. <i>Fraxinus pennsylvanica</i>	12	Yes	FACW	FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	134	(A)	315 (B)
4.				Prevalence Ind		2.4	(-)
5.				Hydrophytic Vegetation I			<del></del> -
6				1- Rapid Test for Hy		/ogotation	1
7				2 - Dominance Test		egetation	ı
	12	= Total Cov	er	✓ 3 - Prevalence Index			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Provide	supporting
1. <i>Poa palustris</i>	20	Yes	FACW	data in Remarks or on a	•	-	supporting
2. Toxicodendron radicans	15	Yes	FAC	Problematic Hydro	•	•	(plain)
3. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW	- Indicators of hydric soil			
4				present, unless disturbed		•	6)
5.				Definitions of Vegetation	Strata:		
6.				Tree – Woody plants 3 in		more in	diameter at
7.				breast height (DBH), rega			
8.				Sapling/shrub - Woody p	lants less tl	han 3 in. [	DBH and
9.				greater than or equal to	3.28 ft (1 m	) tall.	
10.	· ——			Herb – All herbaceous (n	on-woody)	plants, re	gardless of
11.				size, and woody plants le	ss than 3.2	8 ft tall.	
12.				Woody vines – All woody	vines great	er than 3	.28 ft in
	45	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )		-		Hydrophytic Vegetation	Present? \	⁄es <u> </u>	lo
Toxicodendron radicans	12	Yes	FAC				
2.	- 12	103	17.00	-			
3.	· ——			-			
4.	· ——			=			
	12	= Total Cov	er	-			
Remarks: (Include photo numbers here or on a separa		-					

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

	· ·	o the d	=			indicato	r or confirm the a	absence of indicators.)	
Depth _	Matrix		Redox						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0 - 13	10YR 4/2	95	2.5YR 3/4	5	C	M	Silt Loam	1	
l									
				_					
									-
									-
									-
				-				<del></del>	
				- —					—
				- —					
		Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	Location: PL = Pore Lining, M = Matrix.	
Hydric Soil I	ndicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Be		-			2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)	
Black His			Loamy Muck	-		(LRR K, I	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)	
	d Layers (A5)		_ <b>∠</b> Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfa	ce (A11						Thin Dark Surface (S9) (LRR K, L)	
	rk Surface (A12)		Depleted Da			)		Iron-Manganese Masses (F12) (LRR K, L, R)	
_	ucky Mineral (S1)		Redox Depre	essior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
-	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy R	edox (S5)							Red Parent Material (F21)	
Stripped	Matrix (S6)							Very Shallow Dark Surface (TF12)	
Dark Sui	face (S7) (LRR R, M	LRA 14	9B)					Other (Explain in Remarks)	
								•	
-	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	it, unless disturbe	ed or problematic.	_
	ayer (if observed):								
	Type:		None	-		Hydric	Soil Present?	Yes No	
	Depth (inches):							<del></del>	
Remarks:									
A positive in	dication of hydric s	soil wa	s observed.						
	-								

Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-04			
Applicant/Owner: NextEra		State: NY	Sampling Po	oint: W-JJB-16; PSS-1		
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 1-10		
Subregion (LRR or MLRA): LR	R L	Lat: 43.055014195	9 <b>Long:</b> -78.0457172	2916 <b>Datum:</b> WGS84		
Soil Map Unit Name: Ontario lo	am, 3 to 8 percent slopes		NWI cla	assification:		
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	(If no, explain in R	emarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumstances" pres	ent? Yes <u></u> ✓ No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS - At	tach site map showing samplir	ng point locations, trai	nsects, important fe	atures, etc.		
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No					
Hydric Soil Present?	Yes _ <b>✓</b> _ No	Is the Sampled Area withi	n a Wetland?	Yes No		
_						
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-JJB-16		
Remarks: (Explain alternative pro	cedures here or in a separate report)	)				
TRC covertype is PSS. Wetter than	ı average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of c	one is required; check all that apply)		Secondary Indicators (	minimum of two required)		
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns			
✓ Saturation (A3)	Marl Deposits (B1:		Moss Trim Lines (B Dry-Season Water			
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard ([			
Inundation Visible on Aerial In			Microtopographic I			
Sparsely Vegetated Concave S	urface (B8)		✓ FAC-Neutral Test (D	)5)		
Field Observations:						
Surface Water Present?	Yes No <u>_</u> Depth	(inches):				
Water Table Present?	Yes No <u>_</u> Depth	(inches):	Wetland Hydrology Pro	esent? Yes No		
Saturation Present?		(inches): 0				
(includes capillary fringe)						
	gauge, monitoring well, aerial photos	nravious inspections) if	available:			
Describe Recorded Data (stream)	gauge, monitoring well, aerial priotos	s, previous irispections,, ir	available.			
Remarks:						

				T		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Tha	3	(A)
1				Are OBL, FACW, or FAC:		
2				Total Number of Dominant Specie	3	(B)
3				Across All Strata:		
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6.					Multiply	D. a
7.				Total % Cover of:	Multiply	-
	0	= Total Cove	er	OBL species 0	x1=_	0
Sapling/Shrub Stratum (Plot size: 15 ft )		=		FACW species 50	x 2 =	100
1. Cornus racemosa	45	Yes	FAC	FAC species 63	x 3 =	189
Cornus amomum	20	Yes	FACW	FACU species 8	x 4 =	32
3. Rhamnus cathartica	10	No No	FAC	UPL species 0	x 5 =	0
4.			TAC	Column Totals 121	(A)	321 (B)
				Prevalence Index = B/A =	2.7	
5				Hydrophytic Vegetation Indicators		
6				1- Rapid Test for Hydrophytic		
7				✓ 2 - Dominance Test is >50%		
	75	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s1 (Provide	supporting
1. <i>Solidago gigantea</i>	30	Yes	FACW	data in Remarks or on a separate		supporting
2. Vitis riparia	8	No	FAC	Problematic Hydrophytic Veg		nlain)
3. <i>Parthenocissus quinquefolia</i>	8	No	FACU	Indicators of hydric soil and wetla	-	•
4.				present, unless disturbed or probl	, ,	gy must be
5.				Definitions of Vegetation Strata:	ciriadic	
6.	· <del></del>			•	ar mara in a	diameter at
7.				Tree – Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of		liameter at
					_	NDLL and
8.				Sapling/shrub – Woody plants less greater than or equal to 3.28 ft (1)		obn and
9.				Herb – All herbaceous (non-wood)		andless of
10				size, and woody plants less than 3		gar diess of
11				Woody vines – All woody vines gre		28 ft in
12				height.	ater triair 5.	2010111
	46	= Total Cov	er			
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes N	lo
1						
2.						
3.	. ,					
4.						
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separate	te sheet.)					

inches) Co	lor (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	ıre Remarks
	2.5Y 4/2	95	7.5YR 5/6	5		M/PL	Silty Clay	
		  		- — - — - —				
	atration D = D		ion DM - Doduce	- —	triv MS -		Sand Crains 21	Scation DL - Days Lining M - Matrix
dric Soil Indica		epiet	ion, RM = Reduce	u ivia	trix, ivi5 =	= Masked	Sand Grains. <sup>2</sup> LC	ocation: PL = Pore Lining, M = Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Thick Dark Su _ Sandy Mucky _ Sandy Gleyed _ Sandy Redox _ Stripped Mati _ Dark Surface	3) fide (A4) ers (A5) ow Dark Surface rface (A12) Mineral (S1) Matrix (S4) (S5) ix (S6) (S7) (LRR R, ML	.RA 14	Thin Dark S Loamy Muc Loamy Gley Depleted M Selection Control Redox Dark Depleted Do Redox Deprecedor Redox Deprecedor Redox Deprecedor Redox Deprecedor Redox Deprecedor	urfac ky Mi ed M atrix Surfa ark Suressic	e (S9) <b>(LR</b> ineral (F1 atrix (F2) (F3) ace (F6) urface (F7) ons (F8)	R R, MLRA ) (LRR K, L	)	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
		tatior	and wetland hyd	drolo	gy must l	oe presen	t, unless disturbe	d or problematic.
estrictive Layer Type: Deptl			None			Hydric S	oil Present?	Yes No
emarks:								

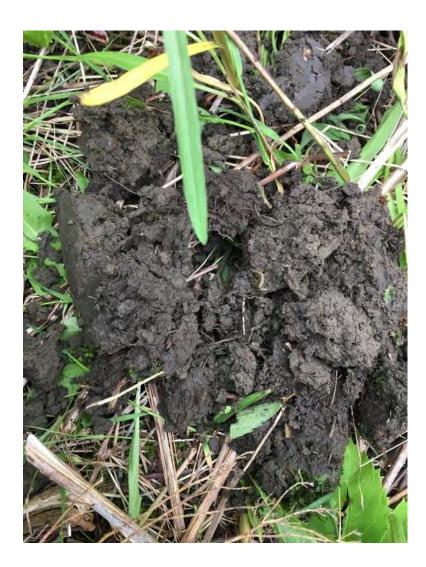


Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-May-30			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-09; UPL-1			
Investigator(s): Jake Brillo, Reb	ecca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	): Agricultural Field	Local relief (concave, conv	rex, none): Flat Slope (%): 2-			
Subregion (LRR or MLRA): L	.RR L	Lat: 43.067412724	8 Long: -78.0631291875 Datum: WGS			
Soil Map Unit Name: Collame	r silt loam, 2 to 6 percent slopes		NWI classification:			
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly di		al Circumstances" present? Yes No			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important features, etc.			
Hydrophytic Vegetation Present	? Yes No _ <b>✓</b> _					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No/			
•		· ·				
Wetland Hydrology Present?	Yes No <b>∠</b>	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pr	ocedures here or in a separate report	)				
TRC covertype is UPL. Circumsta	ances are not normal due to agricultur	al activities. Wet vear				
The coverage is of E. circumste	mees are not normal due to agricultur	ar activities, wee year				
HYDROLOGY						
Mattend I budget and to disease						
Wetland Hydrology Indicators:			Casandan Indiantan (minimum of the manuina			
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two require			
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		5 5 1 5 (50)			
Sediment Deposits (B2)	Oxidized knizospi	neres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial			Microtopographic Relief (D4)			
Sparsely Vegetated Concave		•	FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No _ <b>_/</b> Depth	(inches):				
Water Table Present?	·	(inches):	- Wetland Hydrology Present? Yes No			
	·	·	- No			
Saturation Present?	Yes No _ <b>_/</b> Depth	(inches):	_			
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

'				T			
Tree Stratum (Plot size: 30 ft )		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe	ecies That	0	(A)
1				Are OBL, FACW, or FAC:			
2				Total Number of Domina Across All Strata:	nt species	2	(B)
3					sios That		
4				<ul><li>Percent of Dominant Spe</li><li>Are OBL, FACW, or FAC:</li></ul>	cies mai	0	(A/B)
5				Prevalence Index worksh	oot:		<del></del>
6				- Total % Cover of		Multiply	Dv.
7.				- OBL species		Multiply x 1 =	
	0	= Total Cov	er	FACW species	0	-	0
Sapling/Shrub Stratum (Plot size:15 ft)		_		· —	0	x 2 =	0
1				FAC species	0	x 3 =	0
2.				FACU species	35	x 4 =	140
3.				- UPL species	0	x 5 =	0
-				- Column Totals	35	(A)	140 (B)
4				- Prevalence Ind	ex = B/A =	4	
5				Hydrophytic Vegetation I	ndicators:		
6				- Land Test for Hy		egetation	1
7				2 - Dominance Test		0,000.00	
	0	= Total Cov	er	3 - Prevalence Index			
Herb Stratum (Plot size:5 ft)				4 - Morphological A		(Drovido	cupporting
1. Taraxacum officinale	25	Yes	FACU	- data in Remarks or on a			supporting
2. Ambrosia artemisiifolia	10	Yes	FACU	Problematic Hydrog			(plain)
3.							•
4.				<ul> <li>Indicators of hydric soil a present, unless disturbed</li> </ul>		-	gy must be
5.				· ·		Hatic	-
6.				_ Definitions of Vegetation			
				Tree – Woody plants 3 in.			diameter at
7				breast height (DBH), rega			
8				Sapling/shrub – Woody p			JBH and
9				greater than or equal to 3			
10				Herb – All herbaceous (no	-		gardless of
11				size, and woody plants le			20 6:
12				Woody vines – All woody	vines great	er than 3	.28 π in
	35	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation	Present? \	/es N	Vo <u> </u>
1.							
2.				-			
3.				=			
4.				-			
<b>4.</b>		- Total Cov		-			
	0	_= Total Cov	er				
Remarks: (Include photo numbers here or on a separat	e sheet.)						
Active agricultural field							
, tette agriculturar nela							

	cription: (Describe	to the de	•			indicato	r or confirm the	e absence	of indicators.)
Depth	Matrix			Redox Features		Dames I			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remarks
0 - 12	10YR 4/4	100		_			Loam		
				_					-
				_					
				_					
				_					
				_					
				_					
				_					
<del></del> .				. <del></del>		<del></del> .			
		Depletic	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains.		: PL = Pore Lining, M = Matrix.
Hydric Soil									tors for Problematic Hydric Soils³:
Histoso	` '		Polyvalue Bel					2	cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	oipedon (A2)		Thin Dark Su					Co	oast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, I	L)	5	cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Da	ark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Po	olyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf							 Th	nin Dark Surface (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Dar			)			on-Manganese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				edmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
	Gleyed Matrix (S4)								esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy F	Redox (S5)								ed Parent Material (F21)
Stripped	d Matrix (S6)								ery Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, I</b>	MLRA 149	9B)						ther (Explain in Remarks)
21	- <b>6</b> leaveles este est est est est est est est est			1					•
	of hydrophytic veg		and wetland nydr	olog	y must b	e preser	it, uniess distui	rbea or pr	oblematic.
	Layer (if observed) _	:							
	Type:		None			Hydric	Soil Present?		Yes No <u>_</u> ✓
	Depth (inches):								
Remarks:									

Vegetation Photos





Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-11		
Applicant/Owner: NextEra		State: NY	Sampling Poin	t: W-JJB-28; PUB-1	
Investigator(s): Jake Brillo, Isa	ac Pallant	Section, Township,	Range:		
Landform (hillslope, terrace, etc	): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1	
Subregion (LRR or MLRA):	LRR L	Lat: 43.060385948	1 Long: -78.08642693	8 Datum: WGS84	
Soil Map Unit Name: Appleto	n silt loam, 0 to 3 percent slopes		NWI class	sification:	
Are climatic/hydrologic conditio	ns on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, explain in Ren	narks.)	
Are Vegetation, Soil,			al Circumstances" presen		
Are Vegetation, Soil <u></u> ✓_,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in R	emarks.)	
SUMMARY OF FINDINGS -	Attach site map showing sampli	ng point locations, trai	nsects, important fea	tures, etc.	
Hydrophytic Vegetation Presen	it? Yes 🗸 No				
Hydric Soil Present?	Yes _ <b>✓</b> No	Is the Sampled Area with	in a Wetland?	Yes/_ No	
		1			
Wetland Hydrology Present?	Yes _ <b>∠</b> _ No	If yes, optional Wetland S	ite ID:	W-JJB-28	
Remarks: (Explain alternative p	rocedures here or in a separate report	t)			
TRC covertype is PUB. Circumst	tances are not normal due to agricultu	ral activities, Wetter than a	verage year		
LIVEROLOGY					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum o	of one is required; check all that apply)		Secondary Indicators (m	inimum of two required)	
✓ Surface Water (A1)	Water-Stained Le	aves (R9)	Surface Soil Cracks (E	36)	
✓ High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B	10)	
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8		
			Saturation Visible on	Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)		
✓ Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)		
✓ Inundation Visible on Aerial	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Re		
Sparsely Vegetated Concave	e Surface (B8)		✓ FAC-Neutral Test (D5)	)	
Field Observations:	V 4 N 5 H	" I ) 25			
Surface Water Present?	·	(inches): 36			
Water Table Present?	Yes _ 🗸 No Depth	(inches): 0	Wetland Hydrology Pres	ent? Yes No	
Saturation Present?	Yes No Depth	(inches): 0			
(includes capillary fringe)					
Describe Recorded Data (stream	m gauge, monitoring well, aerial photo	s, previous inspections), if	available:	·	
•		., , , , , , , , , , , , , , , , , , ,			
Remarks:					
Remarks.					

	Ahsolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species Tha	t	
1.				Are OBL, FACW, or FAC:	2	(A)
2.				Total Number of Dominant Specie	.s	
				Across All Strata:	2	(B)
3.				Percent of Dominant Species Tha	400	(4.45)
4.				Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply E	<u>Ву:</u>
7				OBL species 20	x 1 =	20
	0	= Total Cove	r	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
1. Salix nigra	5	Yes	OBL	FACU species 0	x 4 =	0
2				UPL species 0	_ x5=	0
3				Column Totals 20	_ ^3 _	20 (B)
4.				Prevalence Index = B/A	- '' -	20 (b)
5.						
6.				Hydrophytic Vegetation Indicators		
7.				1- Rapid Test for Hydrophyti	: Vegetation	
		= Total Cove	r	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		-		$\checkmark$ 3 - Prevalence Index is ≤ 3.0		
1 Tunha angustifalia	15	Yes	OBL	4 - Morphological Adaptation		supporting
2				data in Remarks or on a separate		
3.				Problematic Hydrophytic Ve	-	
				<sup>1</sup> Indicators of hydric soil and wetl		gy must be
4.				present, unless disturbed or prob	iematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)		liameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants les		BH and
9				greater than or equal to 3.28 ft (1		
10	_			Herb – All herbaceous (non-wood		ardless of
11				size, and woody plants less than 3		
12.				Woody vines – All woody vines gre	eater than 3.2	28 ft in
	15	= Total Cove	r	height.		
Woody Vine Stratum (Plot size:30 ft)	-	=		Hydrophytic Vegetation Present?	Yes 🔽 N	0
1.						
2.				•		
3.				•		
4.				•		
4.		= Total Cove				
		_ TOLAT COVE	ſ			
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

	•	o the	•			indicato	r or confirm the	e absence of indicators.)
Depth	Matrix		Redox	Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
_		_						
				_			-	
		_						
		_						
				_				
		_		_		· <del></del>		
		_		_				<del></del>
				_	-			
	_	_		_			-	
				_				
		-		-				
1T C			in DM Deduce		NAC	N4	Sanad Continue	21
		epiet	ion, RIVI = Reduce	d IVIA	trix, ivis =	: Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
	stic (A3)		Loamy Muck	-		(LKK K, I	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
, ,	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa	re (Δ1						Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	CC (/ (1	Depleted Da			')		Thin Dark Surface (S9) <b>(LRR K, L)</b>
	fucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)				()			Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
	ledox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, M</b>	I RA 1	<b>⊿</b> 9R)					Very Shallow Dark Surface (TF12)
Dark 30	riace (37) (Entry IV)	LIV	436)					_ <u>v</u> Other (Explain in Remarks)
3Indicators	of hydrophytic vege	tation	n and wetland hyd	Irolog	gy must b	e preser	nt, unless distur	rbed or problematic.
Restrictive	Layer (if observed):							
	Type:		None			Hydric	Soil Present?	Yes _ ✓ No
	Depth (inches):			•				
Remarks:								
Soils were a	assumed to be hydr	ic due	to the presence	of inc	ındation,	FACW ar	nd OBL vegetat	ion species, and a definitive wetland boundary.

Hydrology Photos



**Vegetation Photos** 



Photo of Sample Plot



Project/Site: Excelsior		_City/County: Byr	on, Genesee	Sampling Date:	2019-June-07
Applicant/Owner: NextEra			State: NY	Sampling Point: \	N-JJB-23; UPL-1
Investigator(s): _ Jake Brillo, Nicl	k DeJohn		Section, Township,	Range:	
Landform (hillslope, terrace, etc.)	: Agricultural	Field	Local relief (concave, conv	rex, none): Flat	Slope (%): 1-10
Subregion (LRR or MLRA):	RR L		Lat: 43.073477097	8 Long: -78.0767776073	Datum: WGS84
Soil Map Unit Name: Appletor	silt loam, 0 to 3 p	ercent slopes		NWI classific	ation:
Are climatic/hydrologic condition	s on the site typica	l for this time of ye	ear? Yes No	(If no, explain in Remarl	(S.)
Are Vegetation, Soil,	or Hydrology _	significantly di		al Circumstances" present?	Yes No
Are Vegetation, Soil,		naturally prob		explain any answers in Rem	arks.)
SUMMARY OF FINDINGS - A	Attach site man	showing sampli	ng noint locations trai	nsects important featur	es etc
	ttacii site iliap	snowing sampin	ing point locations, trai	isects, important reatur	es, etc.
Hydrophytic Vegetation Present	? Yes	No _ <b>_/</b> _			
Hydric Soil Present?	Yes	No _ <b>_</b> _	Is the Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes	No _ <b>_</b> _	If yes, optional Wetland S	te ID:	
Remarks: (Explain alternative pr	•				
kemarks. (Explain alternative pr	ocedures riere or r	ir a separate repor	-)		
TDC covertupe is LIDL Circumsta	ncoc are not norm	al due te agricultu	sal activities Wetter than a	vorage vear	
TRC covertype is UPL. Circumsta	inces are not norm	iai due to agricultu	al activities, wetter than a	verage year	
HYDROLOGY					
NA -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; cl	neck all that apply)		Secondary Indicators (minir	num of two required)
Surface Water (A1)		_ Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)		_ Aquatic Fauna (B	13)	Drainage Patterns (B10)	
Saturation (A3)		_ Marl Deposits (B1	5)	Moss Trim Lines (B16)	
Water Marks (B1)		_ Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table	(C2)
Sediment Deposits (B2)		_ Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8)	
				Saturation Visible on Ae	rial Imagery (C9)
Drift Deposits (B3)		_ Presence of Redu	ced Iron (C4)	Stunted or Stressed Plan	nts (D1)
Algal Mat or Crust (B4)		_ Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (B5)		_ Thin Muck Surfac	e (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial	lmagery (B7)	_ Other (Explain in	Remarks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave	Surface (B8)			FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes No _	✓ Denth	(inches):		
		•	· · · · · · · · · · · · · · · · · · ·	- Na/atland Usalasian Duacant	3 Van Na
Water Table Present?	Yes No _		(inches):	Wetland Hydrology Present	? Yes No
Saturation Present?	Yes No _	<u>✓</u> Depth	(inches):	_	
(includes capillary fringe)					
Describe Recorded Data (stream	a gauge monitorin	a well periol photo	s provious inspections) if	available:	•
Describe Recorded Data (stream	r gauge, monitorin	g weil, aeriai prioto	s, previous inspections, in	available.	
Remarks:					
I					

	Absolute %	Dominant	Indicator	Dominance Test workshee	et.		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Spe			
1		эресісэ.	Status	Are OBL, FACW, or FAC:	.cics illac	0	(A)
1 2.				Total Number of Dominar	nt Species		
				Across All Strata:		0	(B)
3.				Percent of Dominant Spec	cies That		
4.				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index workshe	eet:		
6				Total % Cover of:	<u>:</u>	Multiply	By:
7				<ul><li>OBL species</li></ul>		x 1 =	0
	-	= Total Cover		FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_)			FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				— UPL species	0	x 5 =	0
3.				— Column Totals	0	(A)	0 (B)
4				Prevalence Inde		.,,	0 (5)
5							<del></del>
6				Hydrophytic Vegetation In			
7.				1- Rapid Test for Hyd		egetation	
	0	= Total Cover		2 - Dominance Test i			
Herb Stratum (Plot size:5 ft)		•		3 - Prevalence Index		<b>(</b> 5	
1				4 - Morphological Ad			supporting
2.				data in Remarks or on a s  Drablematic Llydron			(مندام)
3.				Problematic Hydrop	-		
4.				<ul> <li>Indicators of hydric soil a</li> <li>present, unless disturbed</li> </ul>		-	gy must be
5.					-	iatic	
6.				Tree – Woody plants 3 in.		moro in	diameter at
7.				breast height (DBH), regar			ulameter at
8.				Sapling/shrub - Woody pl			OBH and
-				greater than or equal to 3			DDIT GITG
				Herb – All herbaceous (no			pardless of
10.				size, and woody plants les			54. 4.055 0.
11.				Woody vines - All woody			.28 ft in
12				height.	0		
		= Total Cover		Hydrophytic Vegetation F	Procent? V	2c N	lo /
Woody Vine Stratum (Plot size: 30 ft				Trydrophlydd Vegetadoll I	reserie.		···
1				_			
2				_			
3				_			
4				_			
	0	= Total Cover					
Remarks: (Include photo numbers here o	r on a separate	e sheet.)					
Active agricultural field							

Depth Matri		-		he indicato	r or confirm the a	bsence of indicators.)
			Features	-1  2	Tarahuma	Damandra
(inches) Color (mois		Color (moist)	<u>%</u> Тур	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0 - 6 7.5YR 3/2	100				Loam	
			. — —			
			. — —			
			·			· -
·			<del></del>		-	
¹Type: C = Concentration,	D = Doplotic	n PM - Paducad	Matrix M	IS = Maskor	Sand Grains 21	ocation: PL = Pore Lining, M = Matrix.
	D - Depletic	ii, Kivi – Reduced	Matrix, IV	is – iviasket	Janu GranisL	
Hydric Soil Indicators:		Dollarater	OM C6-	o (CO) (1 DC	D MIDA 4405	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)		Polyvalue Bel			R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Black Histic (A3)		Loamy Mucky				Coast Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gleye			L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)		Depleted Mar		۷,		Dark Surface (S7) <b>(LRR K, L)</b>
Depleted Below Dark	Surface (A11			5)		Polyvalue Below Surface (S8) <b>(LRR K, L)</b>
Thick Dark Surface (A1	-	Depleted Dar	-	-		Thin Dark Surface (S9) <b>(LRR K, L)</b>
Sandy Mucky Mineral		Redox Depre				Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (			,	,		Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Redox (S5)	- ',					Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6)						Red Parent Material (F21)
Dark Surface (S7) (LRR	R MIRA 14	9R)				Very Shallow Dark Surface (TF12)
Bank sanace (57) (Eine	ry William I	,,,				Other (Explain in Remarks)
<sup>3</sup> Indicators of hydrophytic		and wetland hydr	ology mu	st be prese	nt, unless disturbe	ed or problematic.
Restrictive Layer (if obser	/ed):					
Type:		Gravel/rocks		Hydrid	: Soil Present?	Yes No/_
Depth (inches	):	6				
Remarks:						

#### **Vegetation Photos**





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-12				
Applicant/Owner: NextEra		State: NY	Sam	npling Point: W-JJB-3	35; PEM-1		
Investigator(s): Jake Brillo, Isaa	ic Pallant	Section, Township,	Range:				
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	<b>/ex, none):</b> Cor	ncave	Slope (%): 1-10		
Subregion (LRR or MLRA):L	RR L	Lat: 43.054578378	8 Long: -78.	.0925768242	Datum: WGS84		
Soil Map Unit Name: Lamson \	very fine sandy loam			NWI classification:	PUBHx		
Are climatic/hydrologic condition:	is on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, exp	lain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstance	es" present? Ye	es No _ <b>_/</b>		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any an	swers in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, impor	rtant features, et	tc.		
Hydrophytic Vegetation Present?	? Yes No						
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland?	Yes	∠_ No		
		<u>'</u>					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD.	W-JJB-	-33		
Remarks: (Explain alternative pro	ocedures here or in a separate report	)					
TRC covertype is PEM. Circumsta	ances are not normal due to agricultu	ral activities, Wetter than a	verage year				
HYDROLOGY							
HIDROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Ind	licators (minimum o	of two required)		
✓ Surface Water (A1)	Water-Stained Lea	aves (B9)	✓ Surface Soi				
<u></u> High Water Table (A2)	_ <u> ✓</u> Aquatic Fauna (B1	3)	Drainage Patterns (B10)				
_ <u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Trim				
Water Marks (B1)	Hydrogen Sulfide			n Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospl	neres on Living Roots (C3)	<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>				
Drift Danasits (D2)	Dresense of Dodu	and Iron (CA)	<u> </u>				
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ced fron (C4) ction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Iron Deposits (B5)	Recent from Reduct		Shallow Aq				
Inundation Visible on Aerial I				graphic Relief (D4)			
✓ Sparsely Vegetated Concave :	· · · · · · · · · · · · · · · · · · ·	,	FAC-Neutra				
Field Observations:							
Surface Water Present?	Yes _ 🗸 No Depth	(inches): 6					
Water Table Present?	•	(inches): 4	-  Wetland Hydro	ology Present?	Yes No		
Saturation Present?	•	(inches): 0	-	0.08) 1.1000.11.			
	res 🗸 No Deptil	(Iliches).	-				
(includes capillary fringe)					<u> </u>		
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:				
Remarks:							

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test works			
1.	% Cover	Species?	Status	Number of Dominant Are OBL, FACW, or FAC		3	(A)
2.				Total Number of Domi Across All Strata:	nant Species	3	(B)
				Percent of Dominant S	inecies That		
4				Are OBL, FACW, or FAC		100	(A/B)
56.				Prevalence Index work	sheet:		
7.				Total % Cover	<u>of:</u>	Multiply E	<u>By:</u>
··		= Total Cov		OBL species	23	x 1 =	23
Sapling/Shrub Stratum (Plot size:15 ft)			-1	FACW species	0	x 2 =	0
1				FAC species	0	x 3 =	0
2				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
4.				Column Totals	23	(A)	23 (B)
				Prevalence I	ndex = B/A =	1	
6.				Hydrophytic Vegetatio	n Indicators:		
7.				1- Rapid Test for	Hydrophytic \	egetation/	
<i>.</i>		= Total Cov	or	_ <b>✓</b> 2 - Dominance Te	est is >50%		
Herb Stratum (Plot size:5 ft)		_ 10tal Cov	<b>-</b> 1	3 - Prevalence Inc	dex is $\leq 3.0^{1}$		
1. Eleocharis obtusa	10	Yes	OBL	4 - Morphologica			upporting
Alisma triviale	— <del>10</del>	Yes	OBL	data in Remarks or on	•	-	
3. Ranunculus sceleratus		Yes	OBL	Problematic Hyd			
4.			OBL	¹Indicators of hydric so		-	y must be
5.				present, unless disturb		matic	
6.				Definitions of Vegetati			:
7.				Tree – Woody plants 3 breast height (DBH), re			iameter at
				Sapling/shrub - Wood	_	_	RH and
				greater than or equal t			Dirana
				Herb – All herbaceous			ardless of
				size, and woody plants			
11.				Woody vines - All woo			28 ft in
12		= Total Cov		height.			
Woody Vine Stratum (Plot size:30 ft)		Total Cov	zi	Hydrophytic Vegetation	on Present? `	Yes 🟒 No	o
1							
2							
3.							
4							
	0	= Total Cov	er ———				
Remarks: (Include photo numbers here or on a sep  Active agricultural field	oarate sheet.)						

Profile Deso Depth	cription: (Describe to Matrix	o the d	epth needed to d Redox			indicato	r or confirm the al	bsence of indicato	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Text	ure	Remarks
0 - 17	10YR 2/1	98	7.5YR 4/4	2	С	M	Silty Clay		
		_		- - 					
		_		- -					
		_		- - -					
		_		- <u>-</u>					
1Typo: C = (	Concentration D = F		on PM - Poducos	l Mat	riv MC -	Maskad	Sand Grains 21	ocation: PL - Pore	a Lining M = Matrix
Hydric Soil	Concentration, D = D	repieti	Jii, Kivi – Reducec	ııvıdl	1 IX, IVIS =	iviaskeu	Janu Granis. *Li		e Lining, M = Matrix. roblematic Hydric Soils³:
-			Polyvalua Bo	low s	iurface (C	(8) <b>(I DD</b> I	R MIRA 1/10R)		•
Black Hi Hydrogo Stratifie Deplete Thick Do Sandy N Sandy F Strippeo Dark Su  Restrictive	in (A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfacerk Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) dedox (S5) d Matrix (S6) rface (S7) (LRR R, Moof hydrophytic veges Layer (if observed): Type: Depth (inches):	LRA 14	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma J_ Redox Dark S Depleted Da Redox Depre	rface y Mir d Ma trix (I Surfa rk Su essior	(S9) (LRF neral (F1) trix (F2) F3) ce (F6) rface (F7) ns (F8)	e preser	.)	Coast Prairi  Som Mucky Dark Surfac Polyvalue Bo Thin Dark So Iron-Manga Piedmont Fl Mesic Spodi Red Parent Very Shallov Other (Expland	w Dark Surface (TF12) ain in Remarks)

Hydrology Photos



**Vegetation Photos** 





Photo of Sample Plot







Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-11			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-28; UPL-1			
Investigator(s):Jake Brillo, Isaa	c Pallant	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Hilltop	Local relief (concave, conv	<b>ex, none):</b> Flat Slope (%): 1-10			
Subregion (LRR or MLRA):	RR L	Lat: 43.060526596	4 Long: -78.0863939133 Datum: WGS84			
Soil Map Unit Name: Appleton	silt loam, 0 to 3 percent slopes		NWI classification:			
Are climatic/hydrologic condition	s on the site typical for this time of ye	ar? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumstances" present? Yes No			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map showing samplir	ng point locations, trar	sects, important features, etc.			
Hydrophytic Vegetation Present?	? Yes No	<u> </u>	·			
, , ,		Is the Compled Area within	n a Watland? Vos No (			
Hydric Soil Present?	Yes No	Is the Sampled Area withi				
Wetland Hydrology Present?	Yes No _ <b>∠</b> _	If yes, optional Wetland S	te ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report;	)				
TRC covertype is UPL. Wetter tha	an average year					
31	3 7					
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary Indicators (minimum of two required)			
Surface Water (A1)	Water-Stained Lea	2) (OS (PO)	Surface Soil Cracks (B6)			
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Aquatic Fauria (B1)		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	3) Crayfish Burrows (C8)			
,		8(,	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial I	magery (B7) Other (Explain in F	Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No Depth (	(inches):	Wetland Hydrology Present? Yes No			
Saturation Present?		(inches):				
(includes capillary fringe)			•			
		\(\dot\) is\(\dot\) if -				
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos	s, previous inspections), ii a	available:			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )	% Cover	Species?	Status	Number of Dominant Species That		(4)
1.		·		Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species	2	(B)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		(, (, p)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
/		- Total Cause		OBL species 0	x 1 =	0
	0	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
1.				FACU species 115	x 4 =	460
2				UPL species 0	x 5 =	0
3				Column Totals 115	(A)	460 (B)
4				Prevalence Index = B/A =	4	-
5				Hydrophytic Vegetation Indicators:		·
6				1- Rapid Test for Hydrophytic		•
7				2 - Dominance Test is > 50%	vegetation	
	0	= Total Cove	er	3 - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptation	c1 (Drovido	cupporting
1. Poa pratensis	75	Yes	FACU	data in Remarks or on a separate s		supporting
2. Taraxacum officinale	25	Yes	FACU	Problematic Hydrophytic Veg		(nlain)
3. Galium mollugo	15	No	FACU	Indicators of hydric soil and wetla		
4.				present, unless disturbed or proble		gy must be
5.				Definitions of Vegetation Strata:	macic	_
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7.				breast height (DBH), regardless of		didiffeter at
8.				Sapling/shrub - Woody plants less	-	OBH and
9.				greater than or equal to 3.28 ft (1 r		22
40				Herb – All herbaceous (non-woody		gardless of
-				size, and woody plants less than 3.		<b>5</b>
11.				Woody vines – All woody vines gre		.28 ft in
12		Tatal Carre		height.		
	115	= Total Cove	er .	Hydrophytic Vegetation Present?	Yes N	do ./
Woody Vine Stratum (Plot size: 30 ft )				ya. op.,yae regetation resenti		
1.						
2						
3						
4						
	0	_= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	ate sheet.)			_		
	•					

	cription: (Describe	to the de	•			indicato	r or confirm the	e absence o	of indicators.)
Depth	Matrix		Redox			12	<del>-</del> .	_	Power 1
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 16	10YR 3/2	100		_			Loam		
				_					
				_					
						·			
				_		·			
				_					
				_					
1Typo: C = 0	Concentration D =	Donlatio	n PM – Poducod	Mat	riv MS -	Mackad	Sand Grains	2l ocation:	PL = Pore Lining, M = Matrix.
		Debierio	ii, Nivi – Reduced	ivial	. iv, ivi3 -	MINISKER	Jana Granis.		
Hydric Soil			Doharely a Del		urfo "	-0) (I DD I	D MI DA 1405		tors for Problematic Hydric Soils <sup>3</sup> :
Histoso	r (A1) pipedon (A2)		Polyvalue Bel Thin Dark Su						m Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucky						ast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye			(LICITION I	-)		m Mucky Peat or Peat (S3) (LRR K, L, R)
, 0	d Layers (A5)		Depleted Mar						rk Surface (S7) (LRR K, L)
	d Below Dark Surf								lyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		 Depleted Dar			)			in Dark Surface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				n-Manganese Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)								edmont Floodplain Soils (F19) (MLRA 149B)
	Redox (S5)								esic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)								d Parent Material (F21)
	ırface (S7) <b>(LRR R, N</b>	/ILRA 149	9B)						ry Shallow Dark Surface (TF12)
								00	her (Explain in Remarks)
3Indicators	of hydrophytic veg	getation a	and wetland hydr	olog	y must b	e preser	nt, unless distur	rbed or pro	blematic.
Restrictive	Layer (if observed)	:							
	Type:		Fravel/rocks			Hydric	Soil Present?	•	Yes No⁄_
	Depth (inches):		16						
Remarks:									

Vegetation Photos





Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	n, Genesee County	Sampling Date: 201	9-May-30			
Applicant/Owner: NextEra		State: New Yor	k Sampling Point: W-JD	V-11; UPL-1			
Investigator(s):Jeff Vandeveer, I	BP	Section, Township, Ran	ge:				
Landform (hillslope, terrace, etc.):	Plain	Local relief (concave, convex, r	none):Flat	Slope (%): 1-10			
Subregion (LRR or MLRA): LR	R L	Lat: 43.0773967	Long: -78.1027686	Datum: WGS84			
Soil Map Unit Name: Appleton s	silt loam, 3 to 8 percent slopes		NWI classificatio	n: None			
Are climatic/hydrologic conditions	on the site typical for this time of year	ar? Yes 🟒 No	_ (If no, explain in Remarks.)				
Are Vegetation, Soil,	or Hydrology significantly dis	turbed? Are "Normal Cir	rcumstances" present?	Yes No			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed, expl	ain any answers in Remarks.	)			
SUMMARY OF FINDINGS - At	tach site map showing samplir	ng point locations, transec	cts, important features,	etc.			
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No						
Hydric Soil Present?		Is the Sampled Area within a	Wotland? Vo	s No (			
	Yes No _ <b>_/</b> _	i		s No <u>_</u> ∠			
Wetland Hydrology Present?	Yes No _ <b>∠</b> _	If yes, optional Wetland Site I	D:				
Remarks: (Explain alternative prod	cedures here or in a separate report)						
TRC covertype is UPL. Area is upla	ind, not all three wetland parameters	s are present.					
	·	·					
HYDROLOGY							
Wetland Hydrology Indicators:							
1	ne is required; check all that apply)	Sec	ondary Indicators (minimum	of two required)			
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)	<u> </u>			
High Water Table (A2)	Aquatic Fauna (B1	VC3 (D3)	Drainage Patterns (B10)				
Saturation (A3)	Marl Deposits (B15		Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	, ,	eres on Living Roots (C3) —	Crayfish Burrows (C8)				
			Saturation Visible on Aerial I	le on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)			•				
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)				
Inundation Visible on Aerial Im		·	Microtopographic Relief (D4)				
Sparsely Vegetated Concave S	urface (B8)		FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present?	Yes No Depth (	inches):					
Water Table Present?	Yes No <u>_</u> Depth (	inches): We	tland Hydrology Present?	Yes No			
Saturation Present?	Yes No Depth (	inches):					
(includes capillary fringe)							
	gauge, monitoring well, aerial photos	nrevious inspections) if avail	ahle.				
bescribe recorded bata (stream)	gauge, morntoring well, acriai priotos	, previous inspections, it uvuit	ubic.				
Para autor							
Remarks:							
No positive indication of wetland	hydrology was observed.						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant		5	(A)
1. Fraxinus pennsylvanica	35	Yes	FACW	Are OBL, FACW, or FAC	<u>:</u> :		(A)
2. Betula papyrifera	15	Yes	FACU	Total Number of Dom	inant Species	7	(B)
3. Robinia pseudoacacia	10	No	FACU	Across All Strata:			
4. Acer negundo 5.	8	No	FAC	Percent of Dominant S Are OBL, FACW, or FAC	•	71.4	(A/B)
				Prevalence Index work	sheet:		
6.	<del></del>			Total % Cove	r of:	Multiply	By:
7		Tatal Carr		- OBL species	0	x 1 =	0
5 15 (5) 1 5: ( (5) 1 5: ( 15 6 )	68	= Total Cov	er	FACW species	60	x 2 =	120
Sapling/Shrub Stratum (Plot size:15 ft)	10	.,	E4 6144	FAC species	53	x 3 =	159
1. Fraxinus pennsylvanica	10	Yes	FACW	- FACU species	50	x 4 =	200
2				- UPL species	0	x 5 =	0
3				- Column Totals	163	(A)	479 (B)
4				- Prevalence I	ndex = B/A =	2.9	
5				Hydrophytic Vegetatio	n Indicators		
6				1- Rapid Test for		/egetation	
7				✓ 2 - Dominance Te			
	10	= Total Cov	er	✓ 3 - Prevalence In			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica		1 (Provide	sunnorting
1. <i>Toxicodendron radicans</i>	35	Yes	FAC	- data in Remarks or on		-	3upporting
2. <i>Parthenocissus quinquefolia</i>	20	Yes	FACU	- Problematic Hyd	•	•	plain)
3. Fraxinus pennsylvanica	15	Yes	FACW	- Indicators of hydric so	, , ,	-	
4. Solidago canadensis	5	No	FACU	present, unless distur		, ,	6)
5				Definitions of Vegetati	on Strata:		
6.				Tree – Woody plants 3	in. (7.6 cm) o	r more in o	diameter at
7.				breast height (DBH), re	egardless of h	eight.	
8.				Sapling/shrub - Wood	y plants less t	han 3 in. E	DBH and
9.				greater than or equal	to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of
11.				size, and woody plants	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	dy vines grea	ter than 3.	.28 ft in
	<u></u> 75	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation	on Present? `	Yes <u></u> ✓ N	lo
1. Toxicodendron radicans	10	Yes	FAC				
2.				-			
3.				-			
4.				-			
		= Total Cov	or	-			
		. Total COV					

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

	•	to the de	epth needed to do Redox			indicato	r or confirm the a	absence of indicators.)
Depth _	Matrix						<b>-</b> .	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	
0 - 12	10YR 5/4	100		_			Silt Loan	<u> </u>
				_				
				_				
				_				
				_				
		· —		_				
				_				
				_				
¹Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains. <sup>2</sup> l	Location: PL = Pore Lining, M = Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Bel	ow c	urface (S	(8) <b>(I PP</b>	R. MI RA 149R)	•
	oipedon (A2)		Polyvalue Bei Thin Dark Sur					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Mucky					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed			(Litting)	-,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Mat					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfa							Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	acc (/ t )	Depleted Dar			)		Thin Dark Surface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depres			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	ileyed Matrix (S4)		Redox Depre	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
_	-							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	edox (S5)							Red Parent Material (F21)
	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	/ILRA 149	)B)					Other (Explain in Remarks)
3Indicators	of hydronhytic veg	etation a	and wetland hydr	റിറത	, must h	e nreser	nt unless disturb	ed or problematic.
	_ayer (if observed):		ina wedana nyai	olog,	y mast b	e preser	it, arriess distarb	ed of problematic.
			None			Lludric	Cail Dracant?	Vos. No. /
	Type:		None			пуштс	Soil Present?	Yes No <u>_</u> ✓
	Depth (inches):							
Remarks:								
No positive	indication of hydri	ic soils w	as observed.					
	,							
L								

Photo of Sample Plot





Local relief Lat:  If for this time of year?  significantly disturbed?  naturally problematic?  showing sampling point lo  No Is the Samp	Yes No (If I Are "Normal Circum (If needed, explain a	nwi classificatio  NEW AND CLASSIFICATION  NO CLASS	Slope (%): 0-1 Datum: WGS84 n: PUBF  Yes _ No		
Local relief Lat:  If for this time of year?  significantly disturbed? naturally problematic?  showing sampling point lo  No Is the Samp No If yes, option a separate report)  neck all that apply)  Water-Stained Leaves (B9)	Yes _ No (If needed, explain a cations, transects, i	nwi classificatio  NEW AND CLASSIFICATION  NO CLASS	Datum: WGS84 n: PUBF  Yes _ No)  etc.		
Lat:	Yes _ No _ (If I Are "Normal Circum" (If needed, explain a cations, transects, i	nwi classificatio  NEW AND CLASSIFICATION  NO CLASS	Datum: WGS84 n: PUBF  Yes _ No)  etc.		
I for this time of year?  significantly disturbed? naturally problematic?  showing sampling point lo  No	Yes/_ No (If no second control of the second control of th	NWI classificatio no, explain in Remarks.) instances" present? any answers in Remarks. important features, o and? Yes	n: PUBF  Yes _ No)  etc.		
significantly disturbed? naturally problematic?  showing sampling point low with the sample wi	Are "Normal Circum (If needed, explain a cations, transects, i	no, explain in Remarks.) instances" present? any answers in Remarks. important features, or	Yes No .) etc.		
significantly disturbed? naturally problematic?  showing sampling point low with the sample wi	Are "Normal Circum (If needed, explain a cations, transects, i	instances" present?  any answers in Remarks.  important features, or and?  Yes	Yes✓ No .) etc. ✓ No		
naturally problematic?  showing sampling point lo  No    No    Is the Sampling point lo  Is the Sampling point lo  Is the Sampling point lo  If yes, option  a separate report)	(If needed, explain a	important features, and?	.) etc. No		
showing sampling point lo  No Is the Samp No If yes, option a separate report)  meck all that apply) Water-Stained Leaves (B9)	cations, transects, i	important features, on the same of the sam	etc. ∕_ No		
✓ No Is the Samp ✓ No If yes, option  a separate report)  meck all that apply)  Water-Stained Leaves (B9)	oled Area within a Wetla	and? Yes	No		
✓ No Is the Samp ✓ No If yes, option  a separate report)  meck all that apply)  Water-Stained Leaves (B9)	oled Area within a Wetla	and? Yes	No		
✓ No Is the Samp ✓ No If yes, option  a separate report)  meck all that apply)  Water-Stained Leaves (B9)					
✓ No Is the Samp ✓ No If yes, option  a separate report)  meck all that apply)  Water-Stained Leaves (B9)					
If yes, option a separate report)					
n a separate report)  neck all that apply)  _ Water-Stained Leaves (B9)	nai wetiand Site ID:	W-JI	DV-15		
neck all that apply) Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
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_ Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
_ Water-Stained Leaves (B9)					
	Seconda	ary Indicators (minimum	of two required)		
	Surfa	ace Soil Cracks (B6)			
	Drair	nage Patterns (B10)			
Marl Deposits (B15)	Moss	s Trim Lines (B16)			
•	Dry-9	Dry-Season Water Table (C2)			
Oxidized Rhizospheres on Livi	ng Roots (C3) Cray	3) Crayfish Burrows (C8)			
_ Oxidized Nilizospheres on Eivi	Satu	ration Visible on Aerial I	magery (C9)		
Presence of Reduced Iron (C4)	Stun	ted or Stressed Plants ([	O1)		
= : :		•	,		
-	. ,	•			
= : :			)		
Depth (inches):	20				
,		Hvdrology Present?	Yes _ <b>∠</b> _ No		
Depart (inches).		rriyarology rreseric.	165 110		
Danath (in alcan)					
Depth (inches):					
	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livia Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Hydrogen Sulfide Odor (C1) Dry- Oxidized Rhizospheres on Living Roots (C3) Satu Presence of Reduced Iron (C4) Stun Recent Iron Reduction in Tilled Soils (C6) Geoi Thin Muck Surface (C7) Shal Other (Explain in Remarks) Micr FAC- Depth (inches): 20 Depth (inches): 0 Wetland	Hydrogen Sulfide Odor (C1)  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)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial II  Stunted or Stressed Plants (I  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Wetland Hydrology Present?		

Tree Stratum (Plot size: 30 ft )	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
inee Stratum (Flot SizeSO It)	Cover	Species?	Status	Number of Dominant Species Tha	. 0	(A)
1.				Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Specie	5 0	(B)
2				Across All Strata:		
4				Percent of Dominant Species That		(A/B)
				Are OBL, FACW, or FAC:		
6				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	<u>' By:</u>
/·		Tabal Cassas		OBL species 0	x 1 =	0
	0	= Total Cover		FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft .				FAC species 0	x 3 =	0
1				— FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				— Column Totals 0	(A)	0 (B)
4				Prevalence Index = B/A =	- ' '	- (-)
5				•		<del></del>
6				Hydrophytic Vegetation Indicators		_
7.				1- Rapid Test for Hydrophytic	vegetatioi	n I
	0	= Total Cover		2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		-		3 - Prevalence Index is ≤ 3.01		
1.				4 - Morphological Adaptation		supporting
2				— data in Remarks or on a separate		1
2				— Problematic Hydrophytic Veg		
4.				Indicators of hydric soil and wetla	-	ogy must be
5.				present, unless disturbed or probl	ematic	
				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm)		diameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		DBH and
9				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-wood)		egardless of
11				size, and woody plants less than 3		20 6:
12				Woody vines – All woody vines gre	ater than 3	3.28 π In
	0	= Total Cover		height.		_
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	Yes	No
1.						
2.						
3.				_		
4.				_		
	0	= Total Cover		_		
	•					
Remarks: (Include photo numbers here o	r on a separat	e sheet.)				
ponded						

Profile Desc Depth	ription: (Describe to	the	depth needed to o			indicato	or confirm the	absence of indicators.)
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-	Color (IIIolac)	- 70	Color (Illoist)		Турс	LOC	Texture	Kemarks
		· —		-				
		_		-				
		_		-				
		-		-				
				_				
		_						
		_						
		_		_				
¹Tvpe: C = C	oncentration. D = D	eplet	ion. RM = Reduce	d Ma	trix. MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Hydric Soil I		ср.сс	,	<u></u>	,	masitea	54.14 6.4.1.51	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	low	Surface (9	S8) <b>(I DD</b> I	D MIDΔ 1/QR)	·
	oipedon (A2)		Thin Dark Su					2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye	-		(=::::, :	-,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfac	e (A1						Polyvalue Below Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	rk Su	ırface (F7	)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depr	essio	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy G	ileyed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy R	edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped	d Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, M</b> I	LRA 1	49B)					Very Shallow Dark Surface (TF12)
								Other (Explain in Remarks)
	of hydrophytic vege	tatior	n and wetland hyd	rolog	gy must b	e preser	it, unless disturb	ped or problematic.
Restrictive L	ayer (if observed):							
	Type:		Ponded	_		Hydric	Soil Present?	Yes/_ No
	Depth (inches):		0					
Remarks:								
Ponded								

Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	n, Genesee	Sampling Date: 2019-May-29			
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-JJB-01; PFO-1		
Investigator(s): Jake Brillo, Rebe	ecca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 2-5		
Subregion (LRR or MLRA): LF	RR L	Lat: 43.083543847	4 Long: -78.0504332856	Datum: WGS84		
	igua silt loam, 0 to 2 percent slopes		NWI classific			
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ar? Yes <u>✓</u> No	(If no, explain in Rema	rks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Rem	arks.)		
Summary of Findings – A	ttach site map showing samplir	ng point locations, trai	nsects, important featur	es, etc.		
Hydrophytic Vegetation Present?	? Yes No					
Hydric Soil Present?	Yes _ <b>✓</b> _ No	Is the Sampled Area withi	n a Wetland?	Yes No		
Wetland Hydrology Present?		If yes, optional Wetland S		W-IJB-01		
	Yes _ ✓ No		ite ib.	<u> </u>		
Remarks: (Explain alternative pro	ocedures here or in a separate report	)				
l						
TRC covertype is PFO.						
HYDROLOGY						
Wetland Hydrology Indicators:						
	one is required; check all that apply)		Secondary Indicators (minir	num of two required)		
		(20)	Secondary Indicators (minir Surface Soil Cracks (B6)	num or two required)		
✓ Surface Water (A1)	_∕ Water-Stained Lea		Drainage Patterns (B10)			
High Water Table (A2) ✓ Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1:		Moss Trim Lines (B16)			
Water Marks (B1)	Mai i Deposits (Bi) Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		neres on Living Roots (C3)	6 6 1 5 (60)			
,		8(,	Saturation Visible on Ae	rial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plan	nts (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial I	· · · · · · · · · · · · · · · · · · ·	Remarks)	<u>✓</u> Microtopographic Relief	(D4)		
Sparsely Vegetated Concave S	Surrace (B8)		<u>✓</u> FAC-Neutral Test (D5)			
Field Observations:	Van de Na	(in all a al)				
Surface Water Present?	·	(inches): 1	·			
Water Table Present?	Yes No Depth	(inches):	Wetland Hydrology Present	? Yes No		
Saturation Present?	Yes No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if	available:			
Remarks:						

·	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species That		
1. Fraxinus pennsylvanica	25	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)
2. Juglans nigra	10	Yes	FACU	Total Number of Dominant Species	6	(D)
3. Acer saccharinum	8	No	FACW	Across All Strata:		(B)
4.			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Percent of Dominant Species That	66.7	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply E	<u>Ву:</u>
/·	43	= Total Cov	or	OBL species 8	x 1 =	8
Capling/Chrub Stratum (Plot size) 15 ft	43	_ 10tal C0V	ei	FACW species 133	x 2 =	266
Sapling/Shrub Stratum (Plot size:15 ft)	15	Voc	FACIL	FAC species 25	x 3 =	75
1. Lonicera japonica	15	Yes	FACU	FACU species 25	x 4 =	100
2.				UPL species 0	x 5 =	0
3.				Column Totals 191	(A)	449 (B)
4.				Prevalence Index = B/A =	2.4	
5				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic	Vegetation	
7				✓ 2 - Dominance Test is >50%	-6	
	15	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is ≤ 3.01		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Provide s	supporting
Impatiens capensis	75	Yes	FACW	data in Remarks or on a separate sl		
2. <i>Persicaria lapathifolia</i>	25	Yes	FACW	Problematic Hydrophytic Vege		plain)
3. <i>Urtica dioica</i>	10	No	FAC	¹Indicators of hydric soil and wetlar		
4. <i>Symplocarpus foetidus</i>	8	No	OBL	present, unless disturbed or proble		
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in d	liameter at
7.				breast height (DBH), regardless of h	eight.	
8.				Sapling/shrub – Woody plants less t	han 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 m	n) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	ardless of
11.				size, and woody plants less than 3.2	28 ft tall.	
12.				Woody vines – All woody vines grea	ter than 3.2	28 ft in
	118	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes 🟒 N	0
1. Vitis riparia	15	Yes	FAC			
2.			.,,,,	•		
3.				•		
4.						
<u> </u>	15	= Total Cov	or			
	-	_ TOTAL COV	C1			
Remarks: (Include photo numbers here or on a separat	e sheet.)					

	cription: (Describe	to the	•			indicato	r or confirm the	absence of i	ndicators.)
Depth	Matrix		Redox	c Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re	Remarks
0 - 4	10YR 3/2	100					Clay Lo	am	
4 - 14	10YR 3/2	80	7.5YR 4/4	20	С	M	Clay Lo	am	
							,		
			-					•	
-							-		
				. —					
							-		
1Typo: C = 1	Concontration D =	Donloti	ion PM - Poduco		riv MC -	Mackad	Sand Crains	21 ocation: DI	= Pore Lining, M = Matrix.
		Depleti	ori, Rivi – Reduced	ıvıat	11X, 1VI3 –	Maskeu	Sanu Grains.		
_	Indicators:		Daharahaa Da		6 16	:0) (I DD	D MI DA 440D)	indicators	s for Problematic Hydric Soils <sup>3</sup> :
Histoso	pipedon (A2)		Polyvalue Be Thin Dark Su						Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	istic (A3)		Loamy Muck						Prairie Redox (A16) <b>(LRR K, L, R)</b>
l ——	en Sulfide (A4)		Loamy Gleye	-		(LIVIVIV,	<b>-</b> ,		Mucky Peat or Peat (S3) (LRR K, L, R)
	ed Layers (A5)		Depleted Ma						Surface (S7) (LRR K, L)
	ed Below Dark Surf	face (A1							alue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Da			)			Dark Surface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)	1	Redox Depre	essior	ns (F8)				Manganese Masses (F12) (LRR K, L, R)
Sandy 0	Gleyed Matrix (S4)								nont Floodplain Soils (F19) (MLRA 149B)
Sandy F	Redox (S5)								: Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> Parent Material (F21)
Strippe	d Matrix (S6)								Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, I</b>	MLRA 14	49B)					-	(Explain in Remarks)
a									•
	of hydrophytic veg		and wetland hyd	rolog	y must b	e preser	nt, unless distur	bed or proble	ematic.
Restrictive	Layer (if observed)	):							
	Type:	-	None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

**Hydrology Photos** 



Vegetation Photos



Soil Photos



Photo of Sample Plot



Project/Site: Excelsior	City/County: Elba	a, Genesee				
Applicant/Owner: NextEra		State: NY				
Investigator(s): Jake Brillo, Nic	k DeJohn	Section, Township,	, Range:			
Landform (hillslope, terrace, etc.	): Agricultural Field	Local relief (concave, conv	vex, none): Concave	Slope (%): 1-10		
Subregion (LRR or MLRA):	LRR L	Lat: 43.046577978	Long: -78.1093205978	Datum: WGS84		
Soil Map Unit Name: Ovid silt	loam, 0 to 3 percent slopes		NWI classific	cation:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No	o 🔽 (If no, explain in Remar	ks.)		
Are Vegetation, Soil,	or Hydrology significantly di		nal Circumstances" present?	Yes No		
Are Vegetation, Soil <u></u> ✓,	or Hydrology naturally prob	olematic? (If needed,	, explain any answers in Rem	arks.)		
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ing point locations, tra	nsects, important featur	es, etc.		
Hydrophytic Vegetation Present	t? Yes 🗸 No	1				
Hydric Soil Present?	Yes No	Is the Sampled Area with	in a Wetland?	Yes No		
•		·				
Wetland Hydrology Present?	Yes _ <b>∠</b> No	If yes, optional Wetland S	ite iD:	W-JJB-20		
Remarks: (Explain alternative pr	rocedures here or in a separate report	t)				
TRC covertype is PEM. Circumst	ances are not normal due to agricultu	ural activities, Wetter than a	average year			
HYDROLOGY						
Watland Hudrology Indicators:						
Wetland Hydrology Indicators:	f is required, check all that apply)		Cacandan Indicators (minir	of two required)		
•	f one is required; check all that apply)		Secondary Indicators (minin	num ot two requirea)		
✓ Surface Water (A1)	Water-Stained Le		✓ Surface Soil Cracks (B6)			
✓ High Water Table (A2)	⁄ Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)			
✓ Saturation (A3)	Marl Deposits (B1		Moss min Ellies (BTo) Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide					
Sediment Deposits (B2)	Oxidized Kriizospi	heres on Living Roots (C3)	✓ Saturation Visible on Aei	rial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)	Stunted or Stressed Plan			
✓ Algal Mat or Crust (B4)		iction in Tilled Soils (C6)	✓ Geomorphic Position (D2)			
Iron Deposits (B5)	Recent non Redd Thin Muck Surfac		Shallow Aquitard (D3)			
✓ Inundation Visible on Aerial			Microtopographic Relief	(D4)		
✓ Sparsely Vegetated Concave		•	FAC-Neutral Test (D5)	,		
Field Observations:						
Surface Water Present?	Yes _ 🗸 No Depth	n (inches): 7				
Water Table Present?	·	n (inches):	-  Wetland Hydrology Present	? Yes No		
Saturation Present?	·	n (inches):	-			
	res _ <b>/</b> _ No	T (ITICITES).	=			
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						

				Danis and Trakens dale			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Spe Are OBL, FACW, or FAC:	ecies mai	1	(A)
1				Total Number of Domina	nt Chariar		
2				Across All Strata:	nt species	1	(B)
3.				Percent of Dominant Spe	cioc That		
4				Are OBL, FACW, or FAC:	cies mat	100	(A/B)
5				Prevalence Index worksh	oot:		
6.				Total % Cover of		Multiply F	). <i>n</i>
7.					_	Multiply E	•
		= Total Cove	r	OBL species	55	x 1 =	55
Sapling/Shrub Stratum (Plot size:15 ft)		=		FACW species	0	x 2 =	0
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
3.		<del></del>		UPL species	0	x 5 =	0
-				Column Totals	55	(A)	55 (B)
4.				Prevalence Inde	ex = B/A = _	_1	
5				Hydrophytic Vegetation I	ndicators:		
6				1- Rapid Test for Hy		egetation	
7				2 - Dominance Test		.0	
	0	_= Total Cove	er	✓ 3 - Prevalence Index			
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological A		(Provide s	unnorting
1. <i>Alisma triviale</i>	45	Yes	OBL	data in Remarks or on a s			apporting
2. <i>Eleocharis obtusa</i>	10	No	OBL	Problematic Hydrop			olain)
3.				¹Indicators of hydric soil			
4.				present, unless disturbed		-	y masc be
5.				Definitions of Vegetation	-	nacie	
6.				Tree – Woody plants 3 in.		more in d	iameter at
7.				breast height (DBH), rega			iairietei at
8.				Sapling/shrub – Woody p			RH and
9.				greater than or equal to 3			DIT alla
40				Herb – All herbaceous (no			ardless of
10				size, and woody plants le		_	araicss or
11				Woody vines – All woody			28 ft in
12				height.	viries great	C1 C11011 3.2	20 10 111
	55	_= Total Cove	er		D +2. \	/ / NI	
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation	Present? Y	es No	0
1							
2							
3.							
4.							
	0	= Total Cove	r				
Demonstration (to all the order to a complete the complete to a complete the complete to a complete		_					
Remarks: (Include photo numbers here or on a sepa	irate sheet.)						

Profile Desc	ription: (Describe to Matrix	the	depth needed to (			indicato	r or confirm the a	osence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
		_						
		_		- —				
		_						
		_		_				<del>-</del> -
		_		_			-	
		_		_				
		_						
		_		-		· ——		
				_				
¹Type: C = C	oncentration, D = De	eplet	ion, RM = Reduce	d Ma	trix, MS =	Masked	Sand Grains. <sup>2</sup> Le	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I					<b>.</b>			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) ipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B) A 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	•		Loamy Mucl					Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfac	e (Δ1	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
'	rk Surface (A12)	C (/ ( )	Depleted Da			<b>'</b> )		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depr	essio	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent Material (F21)
	l Matrix (S6) rface (S7) <b>(LRR R, ML</b>	RA 1	49B)					Very Shallow Dark Surface (TF12)
								Other (Explain in Remarks)
-	of hydrophytic veget .ayer (if observed):	atior	and wetland hyd	Irolog	gy must t	e presei	nt, unless disturbe	d or problematic.
Nesti ictive i	Type:		None			Hydric	Soil Present?	Yes No
	Depth (inches):			•				<del>_</del> _
Remarks:						•		
Due to inun	dation a clear soil pr	rofile	was unobtainabl	e. Soi	ils are ass	sumed to	o be hydric., Soils v	vere assumed to be hydric due to the presence of
	FACW and OBL vege							

Hydrology Photos



**Vegetation Photos** 







Project/Site: Excelsior	City/County: Byro		Sampling Date: 2019-June-10				
Applicant/Owner: NextEra		State: NY		Sampling Point: W-J	JB-25; PFO-1		
Investigator(s):Jake Brillo, Isaac	c Pallant	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	: Hillslope	Local relief (concave, conv	/ex, none):_	Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): LF	RR L	Lat: 43.062417847	71 Long:_	-78.0798329786	Datum: WGS84		
Soil Map Unit Name: Ovid silt l	oam, 3 to 8 percent slopes			NWI classificati	ion: PFO		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ar? Yes No	(If no,	explain in Remarks.	)		
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumsta	ances" present?	Yes _ <b>∠</b> No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any	y answers in Remark	cs.)		
SUMMARY OF FINDINGS – A	ttach site map showing samplir	ng point locations, trai	nsects, im	portant features	, etc.		
Hydrophytic Vegetation Present?	? Yes _ <b>✓</b> No						
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland	d? Ye	s/_ No		
		·					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	<u>VV</u>	-JJB-25		
Remarks: (Explain alternative pro	ocedures here or in a separate report;	)					
TRC covertype is PFO. Circumstar	nces are not normal due to agricultur	al activities, Wet year					
I .							
HYDROLOGY							
Wetland Hydrology Indicators:							
	one is required; check all that apply)		Secondary	/ Indicators (minimu	m of two required)		
•		(20)	•		iii oi two requirea)		
Surface Water (A1)	_∕ Water-Stained Lea		Surface Soil Cracks (B6) Drainage Patterns (B10)				
High Water Table (A2) Saturation (A3)	Aquatic Fauna (B1 Marl Deposits (B1:		✓ Moss Trim Lines (B16)				
Saturation (AS) Water Marks (B1)	Main Deposits (B1: Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	Crayfish Burrows (C8)				
,		8(,	Saturat	tion Visible on Aeria	l Imagery (C9)		
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface			w Aquitard (D3)			
Inundation Visible on Aerial Ir	· · · · · · · · · · · · · · · · · · ·	Remarks)		opographic Relief (D	4)		
Sparsely Vegetated Concave S	Surface (B8)		FAC-Ne	eutral Test (D5)			
Field Observations:							
Surface Water Present?	'	(inches):	=				
Water Table Present?	Yes No/ Depth	(inches):	Wetland H	lydrology Present?	Yes No		
Saturation Present?	Yes No Depth	(inches):	_				
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if	available:		·		
Remarks:							

				Danis and Task wordshoots		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That		
1 Acor rubrum	40		FAC	Are OBL, FACW, or FAC:	2	(A)
Acer rubrum     Fraxinus americana	25	Yes Yes	FACU	Total Number of Dominant Species		
Tilia americana	25			Across All Strata:	5	(B)
		Yes	FACU	Percent of Dominant Species That	40	(A (D)
4 5.				Are OBL, FACW, or FAC:	40	(A/B)
-				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	By:
7				OBL species 0	x 1 =	0
5 1: 451 1 5: 4 (DL) 4 5 (C)	90	= Total Cov	er	FACW species 15	x 2 =	30
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 95	x 3 =	285
1				FACU species 90	x 4 =	360
2.				UPL species 0	x 5 =	0
3				Column Totals 200	(A)	675 (B)
4				Prevalence Index = B/A =	3.4	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	
7				2 - Dominance Test is > 50%	regetation	
	0	= Total Cov	er	$\frac{2}{3} - \text{Prevalence Index is } \leq 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				✓ 4 - Morphological Adaptations	¹ (Provide	sunnorting
Toxicodendron radicans	55	Yes	FAC	data in Remarks or on a separate sh		supporting
2. Parthenocissus quinquefolia	40	Yes	FACU	Problematic Hydrophytic Vege		(plain)
3. <i>Carex grayi</i>	15	No	FACW	¹Indicators of hydric soil and wetlan		
4				present, unless disturbed or proble	, ,	5)
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in o	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t	han 3 in. D	DBH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	8 ft tall.	
12.				Woody vines – All woody vines grea	ter than 3.	.28 ft in
	110	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.				•		
3.				•		
4.				•		
	0	= Total Cov	er	•		
	-		-			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
A positive indication of hydrophytic vegetation was obs	arvad (Ma	rphological	Adaptations	s) Shallow rooting as morphological a	dantation	wac
observed.	ci veu (iviu	priorogical	, waptations	5). Shallow rooting as morphological a	aaptation	vvas

Profile Des	cription: (Describe Matrix	to the d	lepth needed to d			indicato	or confirm the	absence of indicato	ors.)
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Tex	xture	Remarks
0 - 6	10YR 2/2	100	Color (Inolat)		Турс		Fine Clay Loam		Remarks
6 - 18		85	7 EVD E/6	15					
0-10	10YR 4/2	- 65	7.5YR 5/6	15	C	M	FILL	e Clay	
		- —							
				. —					
				. —					
		- —							
						·			
¹Type: C = 0	Concentration, D =	Depleti	on, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore	E Lining, M = Matrix.
Hydric Soil					-				roblematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be	low S	urface (S	8) <b>(LRR</b> I	R. MLRA 149B)		•
	oipedon (A2)		Thin Dark Su		-		•		A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Muck						e Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					5 cm Mucky Dark Surface	Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		_✓ Depleted Ma	itrix (F	-3)				elow Surface (S8) <b>(LRR K, L)</b>
<u></u> Deplete	d Below Dark Surf	ace (A11	I) Redox Dark :	Surfac	ce (F6)				urface (S9) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Da			)			nese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depre	ession	ıs (F8)			•	oodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy F	tedox (S5)							Red Parent I	
Stripped	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	MLRA 14	9B)					Other (Expla	
3Indicators	of budrophytic voc	rotation	and watland bud	ralam	, must b	0 050505	st uplace dieturk	•	
			and welland nyu	rology	y must b	e preser	it, uriiess disturt	bed or problematic.	
	Layer (if observed)	).	Mana				Call Duranta		Ver ( No
	Type:		None			Hyaric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									

**Hydrology Photos** 



Vegetation Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byrd	on, Genesee	Sampling Date: 2019-June-12			
Applicant/Owner: NextEra		State: NY	Sar	mpling Point: W-JJB-:	32; UPL-1	
Investigator(s):Jake Brillo, Isaac	: Pallant	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Co	nvex	Slope (%): 1-10	
Subregion (LRR or MLRA): LR	RR L	Lat: 43.055388196	4 Long: -78	3.0872586743	Datum: WGS84	
Soil Map Unit Name: Ovid silt lo	oam, 0 to 3 percent slopes			NWI classification:		
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, ex	plain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstan	ces" present? Y	es No _ <b>_</b> /_	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any a	nswers in Remarks.)		
SUMMARY OF FINDINGS – AI	ttach site map showing sampli	ng point locations, trai	nsects, impo	ortant features, e	tc.	
Hydrophytic Vegetation Present?	Yes No _ <b>_/</b> _					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes _	No⁄_	
Wetland Hydrology Present?	Yes No <b>_</b> _	If yes, optional Wetland Si	ite ID:			
TRC covertype is UPL. Circumstar	nces are not normal due to agricultur	ral activities, Wetter than a	verage year			
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of o	one is required; check all that apply)		Secondary In	dicators (minimum c	of two required)	
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface S	oil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1		_	Patterns (B10)		
Saturation (A3)	Marl Deposits (B1	5)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Roots (C3)	-	n Visible on Aerial Im	nagery (C9)	
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		or Stressed Plants (D		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		phic Position (D2)	• ,	
Iron Deposits (B5)	Thin Muck Surface		Shallow A			
Inundation Visible on Aerial In	magery (B7) Other (Explain in	Remarks)		ographic Relief (D4)		
Sparsely Vegetated Concave S	Surface (B8)		FAC-Neut	ral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):	_			
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland Hyd	Irology Present?	Yes No _ <b>_</b>	
Saturation Present?	Yes No <u>_</u> Depth	(inches):				
(includes capillary fringe)			=			
	gauge, monitoring well, aerial photo	s, previous inspections), if	available:			
Remarks:						

T () () () () ()	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Species That	0	(4)
1.				Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant Species	0	(D)
3.				Across All Strata:		(B)
4.	-			Percent of Dominant Species That		(A (D)
				Are OBL, FACW, or FAC:		(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	<u>Ву:</u>
7				— OBL species0	x 1 =	0
	-	= Total Cover		FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_			FAC species 0	x 3 =	0
1				— FACU species 0	x 4 =	0
2				— UPL species 0	x 5 =	0
3				— Column Totals 0	(A)	0 (B)
4				Prevalence Index = B/A =	-	- (-)
5					<del></del>	
6				<ul><li>Hydrophytic Vegetation Indicators:</li><li> 1- Rapid Test for Hydrophytic Vegetation</li></ul>	logotation	
7				2 - Dominance Test is > 50%	regetation	
	0	= Total Cover				
Herb Stratum (Plot size:5 ft)				3 - Prevalence Index is ≤ 3.01	1 (D	
1				4 - Morphological Adaptations		supporting
2.				<ul><li>data in Remarks or on a separate sl</li><li>Problematic Hydrophytic Vege</li></ul>		nlain)
3.				Indicators of hydric soil and wetlar		•
4.				present, unless disturbed or proble		gy must be
5.				· · · · · · · · · · · · · · · · · · ·	matic	
6.				Definitions of Vegetation Strata:		d:
7.	-			Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h		nameter at
						NDLL and
8				Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m		овн апи
9.				Herb – All herbaceous (non-woody)		rardless of
10				size, and woody plants less than 3.2		gai diess oi
11				Woody vines – All woody vines grea		28 ft in
12				height.	ter triair 5.	2011111
	0	= Total Cover			·/ N	
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res iv	10
1				_		
2						
3				_		
4						
	0	= Total Cover				
Remarks: (Include photo numbers here or	r on a senarate	sheet )				
include photo numbers here of	оп а зераган	e sileet.)				
Active agricultural field						
Active agricultural field						

Profile Des	cription: (Describe t	to the de	epth needed to do Redox			indicator	or confirm the	absence of indicator	rs.)
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	To	exture	Remarks
	-		Color (moist)	70	туре	LUC	-		Remarks
0 - 12	7.5YR 3/2	100		_			Slity C	lay Loam	
				_					
				_					
				_					
		· ·		_					
				_					
		· —		_					
		· — ·		_					
				_					
				_		. <del></del> .			
		Depletio	n, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore	
Hydric Soil								Indicators for Pro	oblematic Hydric Soils³:
Histoso			Polyvalue Bel					2 cm Muck (A	10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sur					Coast Prairie	Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky			(LRR K, L	_)	5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Surface	(S7) (LRR K, L)
	d Layers (A5)		Depleted Mat					Polyvalue Bel	ow Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (ATT)						Thin Dark Su	rface (S9) <b>(LRR K, L)</b>
	ark Surface (A12) Mucky Mineral (S1)		Depleted Dar Redox Depre			)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
	•		Redox Depre	55101	IS (FO)			Piedmont Flo	odplain Soils (F19) (MLRA 149B)
_	Gleyed Matrix (S4)							Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent M	laterial (F21)
	d Matrix (S6)							Very Shallow	Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	1LRA 149	)B)					Other (Explai	n in Remarks)
3Indicators	of hydronhytic veg	etation a	and wetland hydr	റിറത	, must h	e nresen	t unless distur	bed or problematic.	
•	Layer (if observed):		ina wetiana nyan	Olog,	y mast b	Presen	t, arriess distarr	oca or problematic.	
	Type:		None			Hydric	Soil Present?		Yes No/
			None			riyuric	Joil Fleselit:		163 NO _ <b>_/</b> _
	Depth (inches):								
Remarks:									

**Vegetation Photos** 



#### Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 20	Sampling Date: 2019-May-31		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-J	B-10; UPL-1		
Investigator(s): Jake Brillo, Rebeco	a Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):		Local relief (concave, conv	ex, none): Flat	Slope (%):1-10		
Subregion (LRR or MLRA): LRR		Lat: 43.070242060	4 Long: -78.0586491433	Datum:WGS84		
Soil Map Unit Name: Collamer sil			NWI classificati			
Are climatic/hydrologic conditions o	**		✓ (If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Remark	S.)		
SUMMARY OF FINDINGS – Atta	ach site map showing samplir	ng point locations, tran	nsects, important features,	etc.		
Hydrophytic Vegetation Present?	Yes No <b>_</b> ✓					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	es No/_		
Wetland Hydrology Present?		If yes, optional Wetland Si		<del></del>		
	·	,	te ib.			
Remarks: (Explain alternative proce	dures here or in a separate report	)				
TRC covertype is UPL. Circumstance	es are not normal due to agricultur	al activities				
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of on	e is required; check all that apply)		Secondary Indicators (minimur	n of two required)		
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1:		Moss Trim Lines (B16) Dry-Season Water Table (C2	2)		
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)	-)		
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Saturation Visible on Aerial	Imagery (C9)		
Drift Deposits (B3)	Presence of Reduc	rad Iran (CA)	Stunted or Stressed Plants	<b>3</b> ,		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)	(D1)		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial Ima			Microtopographic Relief (D4	4)		
Sparsely Vegetated Concave Sui	· · · · · · · · · · · · · · · · · · ·	,	FAC-Neutral Test (D5)	,		
Field Observations:						
Surface Water Present?	Yes No 🟒 Depth	(inches):				
Water Table Present?	·		Wetland Hydrology Present?	Yes No		
			Wedana riyarology r resent.	165 140		
Saturation Present?	Yes <u>✓</u> No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos	s, previous inspections), if a	available:			
Remarks:						
The hydrology criterion has been m	net. However, due to the absence o	t hydrophytic vegetation ai	nd/or hydric soils, this data poir	nt is within a non-		
wetland.						

Tree Stratum (Plot size:30 ft)			Indicator			
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2.			-	Total Number of Dominant Species	1	(B)
3.				Across All Strata:		
4.				<ul><li>Percent of Dominant Species That</li><li>Are OBL, FACW, or FAC:</li></ul>	0	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	Bv.
7				- OBL species 0	x 1 =	<del></del>
	0	= Total Co	ver	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
1				– FACU species 85	x 4 =	340
2				UPL species 0	x 5 =	0
3				Column Totals 85	(A)	340 (B)
4				Prevalence Index = B/A =	4	
5				Hydrophytic Vegetation Indicators:		
6				Trydrophytic Vegetation indicators:	/egetation	1
7				2 - Dominance Test is > 50%	· cgctation	•
	0	_= Total Co	ver	$3$ - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptations	¹ (Provide	supporting
1. <i>Ambrosia artemisiifolia</i>	85	Yes	FACU	- data in Remarks or on a separate sl		
2. Poaceae	10	No	NI	Problematic Hydrophytic Vege		(plain)
3				_ Indicators of hydric soil and wetlar	d hydrolo	gy must be
4				_ present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				_ Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7			-	breast height (DBH), regardless of h	ieight.	
8			-	Sapling/shrub – Woody plants less t		DBH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		_
12				Woody vines – All woody vines grea	ter than 3	.28 ft in
	95	= Total Cov	ver	height.		
Woody Vine Stratum (Plot size: 30 ft )		_		Hydrophytic Vegetation Present?	Yes N	√ vo
1						
2.						
3.						
4.						
	0	= Total Cov	ver			
Remarks: (Include photo numbers here or on a separat	e sheet )					
Remarks. (include prioto numbers here of on a separat	e sileet.)					
Active agricultural field						
Verive agricultural lielu						

	cription: (Describe	to the de	•			indicato	r or confirm the	absence of	indicators.)
Depth _	Matrix		Redox				_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textur		Remarks
0 - 12	10YR 4/4	100		_			Silt Loa	am	
				_					
				_					
				_					
		- —		_			-		
				_					
				_			-		
	-			_					
									-
				· <del>-</del>		<del></del> .			
		Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains.		= Pore Lining, M = Matrix.
Hydric Soil								Indicator	rs for Problematic Hydric Soils³:
Histosol			Polyvalue Bel					2 cm	Muck (A10) (LRR K, L, MLRA 149B)
-	oipedon (A2)		Thin Dark Sui					Coas	t Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi			Loamy Mucky			(LRR K, I	L)	5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
, 0	en Sulfide (A4)		Loamy Gleye						Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Mat						value Below Surface (S8) (LRR K, L)
	d Below Dark Surf					_		-	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)			Manganese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				mont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)								c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy R	tedox (S5)								Parent Material (F21)
Stripped	d Matrix (S6)								Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	MLRA 149	9B)					-	r (Explain in Remarks)
21	- 6 lea adam e lea 45 e a ca								
-	of hydrophytic veg		and wetland nydr	olog	y must b	e preser	nt, uniess distur	bed or probl	ematic.
	Layer (if observed) _	:							
	Type:		None			Hydric	Soil Present?		Yes No _ <b>_</b>
-	Depth (inches):								
Remarks:									

Photo of Sample Plot



Project/Site: Excelsior	City/County: Byre	on, Genesee	Sampling Date: 2019-May-30				
Applicant/Owner: NextEra		State: NY	Sampling Poir	nt: W-JJB-07; PEM-1			
Investigator(s):Jake Brillo, Rebed	ca Cosgrove	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	Swale	Local relief (concave, conv	ex, none): Concave	Slope (%): 1-10			
Subregion (LRR or MLRA): LRF	₹L	Lat: 43.077682214	8 <b>Long:</b> -78.04999692	237 <b>Datum:</b> WGS84			
Soil Map Unit Name: Appleton s	ilt loam, 3 to 8 percent slopes		NWI clas	ssification:			
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes 🟒 No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstances" presei	nt? Yes 🟒 No			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in F	Remarks.)			
SUMMARY OF FINDINGS - Att	tach site map showing sampli	ng point locations, trai	nsects, important fea	itures, etc.			
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No						
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area withi	n a Wetland?	Yes∕_ No			
_		i					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD:	W-JJB-07			
Remarks: (Explain alternative proc	edures here or in a separate report	t)					
TRC covertype is PEM.							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of o	ne is required; check all that apply)		•	ninimum of two required)			
<u>✓</u> Surface Water (A1)	Water-Stained Le		Surface Soil Cracks (	•			
✓ High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (E				
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide		6 6 1 5 (60)				
Sediment Deposits (B2)	Oxidized Rilizosp	heres on Living Roots (C3)	Saturation Visible or				
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)	Stunted or Stressed				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position	` '			
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D:				
Inundation Visible on Aerial Im			Microtopographic Re				
Sparsely Vegetated Concave Su			✓ FAC-Neutral Test (D5				
Field Observations:							
Surface Water Present?	Yes No Depth	(inches): 3					
Water Table Present?	Yes _ <b>✓</b> _ No Depth	(inches): 6	Wetland Hydrology Pre	sent? Yes No			
Saturation Present?	Yes _✓_ No Depth	(inches): 0					
(includes capillary fringe)		·	•				
	gauge, monitoring well, aerial photo	s previous inspections) if	available:				
Describe recorded bata (stream g	,aage, morneomig wen, aenar prioto	s, previous inspections,, in	avanable.				
De manufact							
Remarks:							

-	A b a a l	Daminant	lu di satau	Dominance Test workshee			
Tree Stratum (Plot size: 30 ft )		Dominant Species?	Status	Number of Dominant Spe			
	% Cover	Species:	Status	Are OBL, FACW, or FAC:	cies mat	1	(A)
1				Total Number of Dominar	at Chacias		
2				Across All Strata:	it species	1	(B)
3				Percent of Dominant Spec	cioc That		
4				Are OBL, FACW, or FAC:	les mat	100	(A/B)
5				Prevalence Index workshe	not:		_
6.				Total % Cover of:		Multiple	2
7.				OBL species		Multiply I	-
	0	= Total Cove	er		0	x 1 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )		_		FACW species	85	x 2 = _	170
1				FAC species	0	x 3 =	0
2.				FACU species	5	x 4 =	20
3.	_			UPL species	0	x 5 =	0
				Column Totals	90	(A)	190 (B)
4.				Prevalence Inde	x = B/A =	2.1	
5				Hydrophytic Vegetation In	idicators:		
6				1- Rapid Test for Hyd		egetation	
7				✓ 2 - Dominance Test is		.0	
	0	_= Total Cove	er	✓ 3 - Prevalence Index			
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Ad		(Provide s	unnorting
1. <i>Phalaris arundinacea</i>	85	Yes	FACW	data in Remarks or on a se			apporting
2. Poa pratensis	5	No	FACU	Problematic Hydrop			olain)
3.				¹Indicators of hydric soil a	-		
4.				present, unless disturbed			y mast be
5.				Definitions of Vegetation S	•	Hatic	
6.				Tree – Woody plants 3 in.		more in e	liameter at
7.				breast height (DBH), regar			nameter at
8.				Sapling/shrub – Woody pl		_	PU and
				greater than or equal to 3			Di i and
9.				Herb – All herbaceous (no			ardless of
10				size, and woody plants les			aruless or
11				Woody vines – All woody v			28 ft in
12				height.	nnes great	er triarr 5	20 10 111
	90	= Total Cove	er			, , ,	
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation P	resent? Y	es 🟒 N	0
1							
2.							
3.							
4.				,			
	0	= Total Cove	er	•			
		=					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

	cription: (Describe	to the	•			indicato	r or confirm the	absence of ir	ndicators.)
Depth _	Matrix			x Fea	tures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e	Remarks
0 - 12	7.5YR 4/1	90	10YR 4/6	10	C	M/PL	Clay Loa	am	
		_							
		_		_					
		- —					-		
									-
		- —							
		- —		· —					
		- —		· —					
<del></del> .								<del></del> .	
		Deplet	ion, RM = Reduce	ed Ma	trix, MS =	- Masked	Sand Grains. <sup>2</sup>		= Pore Lining, M = Matrix.
Hydric Soil								Indicators	s for Problematic Hydric Soils³:
Histoso	` '		•				R, MLRA 149B)	2 cm l	Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	oipedon (A2)		Thin Dark S					Coast	Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mud				L)	5 cm l	Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark S	Surface (S7) (LRR K, L)
	d Layers (A5)	: / <b>^</b> 1	Depleted M					Polyva	alue Below Surface (S8) (LRR K, L)
	d Below Dark Surf ark Surface (A12)	ace (A)	Depleted D			7)		Thin [	Dark Surface (S9) (LRR K, L)
	Jucky Mineral (S1)		Redox Dep			,		Iron-N	Manganese Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Dep	1 63310	113 (10)			Piedm	nont Floodplain Soils (F19) (MLRA 149B)
								Mesic	Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	Redox (S5)							Red P	arent Material (F21)
	d Matrix (S6)	AL DA 4	400)					Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, I</b>	VILKA I	498)					Other	(Explain in Remarks)
3Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must l	oe preser	nt, unless disturb	ed or proble	ematic.
	Layer (if observed)					Ι			
	Type:		None			Hydric 9	Soil Present?		Yes No
	Depth (inches):			-					
Remarks:	Deptir (interies).					1			
Remarks.									
İ									
İ									

Hydrology Photos



Vegetation Photos





Photo of Sample Plot



Project/Site: Excelsior		City/County: Byron,	Genesee County		Sampling Date: 2019-June-07			
Applicant/Owner: NextE	ra		State: Nev	w York	Sampling Point: W-	JJB-23; PUB-1		
Investigator(s):Jake Brille	o, Nick DeJohn		Section, Township,	, Range:				
Landform (hillslope, terrace	e, etc.): Depression	Loc	cal relief (concave, conv	/ex, none):	Concave	Slope (%): 0-1		
Subregion (LRR or MLRA):	LRR L		Lat: 43.0711762	Long:	-78.0730658	Datum: WGS84		
Soil Map Unit Name: Ap	pleton silt loam, 0 to 3 per	rcent slopes			NWI classificat	ion: PUBHh		
Are climatic/hydrologic con	ditions on the site typical	for this time of year?	Yes No	(If no	, explain in Remarks.	)		
Are Vegetation, Soil		significantly distur			tances" present?	Yes 🟒 No		
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If needed,	explain an	y answers in Remark	<s.)< th=""></s.)<>		
SUMMARY OF FINDING	iS – Attach site map s	howing sampling	point locations, trai	nsects, in	nportant features	, etc.		
Hydrophytic Vegetation Pr	esent? Yes	<u>∕_</u> No						
Hydric Soil Present?	Yes	No <b>/</b> Is	the Sampled Area withi	in a Wetlan	nd? Ye	s No		
Wetland Hydrology Preser	nt? Yes 🛶	<u>✓ No</u> If y	es, optional Wetland S	ite ID:	W	-JJB-23		
Remarks: (Explain alternat	ive procedures here or in	a separate report)						
	•							
TRC covertype is PUB. wet	spring							
HYDROLOGY								
Wetland Hydrology Indicat	iors:							
Primary Indicators (minim		eck all that apply)		Secondar	y Indicators (minimu	m of two required)		
✓ Surface Water (A1)	·	Water-Stained Leaves	- (RQ)		e Soil Cracks (B6)			
High Water Table (A2)		Aquatic Fauna (B13)	5 (03)	Draina				
Saturation (A3)		Marl Deposits (B15)		Moss Trim Lines (B16)				
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Dry-Season Water Table (C2)				
Sediment Deposits (B2			es on Living Roots (C3)	B) Crayfish Burrows (C8)				
		•	3	_✓ Satura	ation Visible on Aeria	l Imagery (C9)		
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Stunte	ed or Stressed Plants	(D1)		
✓ Algal Mat or Crust (B4)		Recent Iron Reductio			orphic Position (D2)			
Iron Deposits (B5)		Thin Muck Surface (C			w Aquitard (D3)			
<u>✓</u> Inundation Visible on A	· · · · · · · · · · · · · · · · · · ·	Other (Explain in Rem	narks)		topographic Relief (D	4)		
Sparsely Vegetated Con	ncave Surface (B8)			FAC-N	eutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes 🟒 No	Depth (inc	thes): <u>36</u>	_				
Water Table Present?	Yes 🟒 No	Depth (inc	ches): 0	Wetland I	Hydrology Present?	Yes No		
Saturation Present?	Yes 🔽 No	Depth (inc	ches): 0	_				
(includes capillary fringe)								
Describe Recorded Data (s	tream gauge, monitoring	well, aerial photos, p	revious inspections), if	available:				
Remarks:								

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
Tree Structure (1 for Size	Cover	Species?	Status	Number of Dominant Species T	hat <b>0</b>	(A)
1				Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Spe	cies 0	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species T	ıat	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply</u>	<u>By:</u>
/·	0	= Total Cover		OBL species 0	x 1 =	0
Carolina (Charola Charles (Diabaica) 45 ft		- Total Cover		FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_)			FAC species 0	x 3 =	0
1				— FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				— Column Totals 0	(A)	0 (B)
4				Prevalence Index = B.		, ,
5				Hydrophytic Vegetation Indicat		
6	·			— 1- Rapid Test for Hydroph		
7				2 - Dominance Test is > 50		
	0	= Total Cover		3 - Prevalence Index is ≤ 3		
Herb Stratum (Plot size: <u>5 ft</u> )						
1				4 - Morphological Adaptat — data in Remarks or on a separa		supporting
2.				—   data iii keiiiaiks oi oii a separa —   <u>✓</u> Problematic Hydrophytic		rolain)
3.				Indicators of hydric soil and w	_	-
4.				present, unless disturbed or pr	-	gy must be
5.						
6.				Definitions of Vegetation Strata		diameter at
7.				Tree – Woody plants 3 in. (7.6 c breast height (DBH), regardless		ulairietei at
				Sapling/shrub – Woody plants I		DPU and
8				greater than or equal to 3.28 ft		obi i aliu
9.				Herb – All herbaceous (non-wo		ardless of
10				size, and woody plants less tha		gai diess oi
11				Woody vines – All woody vines		28 ft in
12				height.	si cater triair 5.	.2010111
	0	= Total Cover				
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Preser	it? yes i\	10
1				_		
2	·			_		
3				_		
4.						
	0	= Total Cover				
Remarks: (Include photo numbers here o	r on a conarate	s choot )				
Remarks. (include prioto numbers here of	оп а зерагац	e sileet.)				

	•	o the	•			indicator	or confirm the	absence of indicators.)
Depth	Matrix		Redox					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	1			_				
		- —		_				
	1	- —		_				· ·
	-	- —		_				
		- —		-				<del></del>
		- —		-				
		- —		_				
		- —						·
¹Type: C = 0	Concentration, D = [	Deplet	ion, RM = Reduce	d Ma	trix, MS =	Masked	Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Polyvalue Be					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucl	-		(LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ce (A1						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da			)		Iron-Manganese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Stripped	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LRA 1	49B)					Other (Explain in Remarks)
	61 1 1 1							•
		etatior	n and wetland hyd	rolog	gy must b	e presen	t, unless distur	bed or problematic.
Restrictive	Layer (if observed):							
	Type:		None	-		Hydric	Soil Present?	Yes No <u>_</u>
	Depth (inches):							<u> </u>
Remarks:								

Project/Site: Excelsior	City/County: Byro	n, Genesee County	Sampling Date: 2019-May-29			
Applicant/Owner: NextEra		State: Nev	v York Sampl	ing Point: W-JDV	-06; UPL-1	
Investigator(s):Jeff Vandeveer,	IBP	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Flood Plain	Local relief (concave, conv	ex, none): None		Slope (%): 0-1	
Subregion (LRR or MLRA): LF	RR L	Lat: 43.0859768	Long: -78.09	)14144	Datum: WGS84	
Soil Map Unit Name: Wakeville	silt loam		N	NWI classification:	None	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ar? Yes <u></u> ✓ No	(If no, expla	in in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances'	' present? Ye	es No	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answ	ers in Remarks.)		
Summary of Findings – A	ttach site map showing samplir	ng point locations, trar	nsects, importa	ant features, et	ic.	
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes	No⁄_	
		· ·		.05_		
Wetland Hydrology Present?	Yes No _ <b>∠</b>	If yes, optional Wetland S	ite id:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	)				
TRC covertype is UPL.						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		-	ators (minimum c	of two required)	
Surface Water (A1)	Water-Stained Lea		Surface Soil (			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	•	isible on Aerial Im	agery (C9)	
Drift Deposits (B3)	Presence of Reduc	red Iron (CA)				
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial Ir				aphic Relief (D4)		
Sparsely Vegetated Concave S	Surface (B8)		FAC-Neutral			
Field Observations:						
Surface Water Present?	Yes No Depth (	(inches):				
Water Table Present?	Yes No Depth (	(inches):	Wetland Hydrolo	ogy Present?	Yes No <b>_</b> ✓	
Saturation Present?		(inches):	-			
	163 NO _ <b>y</b>		-			
(includes capillary fringe)					·	
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:			
Remarks:						

<u>rree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S Are OBL, FACW, or FAC:		1	(A)
 2.				Total Number of Domin	ant Species	3	(B)
3. L				Percent of Dominant Sp - Are OBL, FACW, or FAC:	ecies That	33.3	(A/B)
5				Prevalence Index works	heet:		
i				Total % Cover	<u>of:</u>	Multiply E	<u>By:</u>
'				- OBL species	0	x 1 =	0
	0	= Total Cov	er	FACW species	35	x 2 =	70
apling/Shrub Stratum (Plot size:15 ft)				FAC species	15	x 3 =	45
				- FACU species	65	x 4 =	260
2				- UPL species	0	x 5 =	0
				- Column Totals	115	(A)	375 (B)
l				Prevalence In	dex = B/A =	3.3	
•				Hydrophytic Vegetation	Indicators:		
5				1- Rapid Test for F		/egetation	
<sup>7</sup>				2 - Dominance Tes		8	
	0	= Total Cov	er	3 - Prevalence Ind			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological		¹ (Provide s	upporting
. Phalaris arundinacea	35	Yes	FACW	- data in Remarks or on a			
. Holcus lanatus	20	Yes	FACU	Problematic Hydro			olain)
S. Solidago rugosa	15	No	FAC	- Indicators of hydric soi			
l. <i>Alliaria petiolata</i>	12	No	FACU	present, unless disturbe	ed or proble	matic	•
5. Hesperis matronalis	12	No	FACU	Definitions of Vegetatio	n Strata:		
5. Arctium minus	8	No	FACU	Tree – Woody plants 3 i	n. (7.6 cm) oi	r more in d	iameter a
7. Galium aparine	5	No	FACU	breast height (DBH), reg	gardless of h	eight.	
3				Sapling/shrub - Woody	plants less t	han 3 in. D	BH and
).				greater than or equal to	3.28 ft (1 m	ı) tall.	
0.				<b>Herb</b> – All herbaceous (			ardless of
1.				size, and woody plants			
2.				Woody vines – All wood	y vines grea	ter than 3.2	28 ft in
	107	= Total Cov	er	height.			
Noody Vine Stratum (Plot size: <u>30 ft</u> )		_		Hydrophytic Vegetation	Present? `	Yes No	o_ <u>-</u>
. Lonicera japonica	8	Yes	FACU				
2.				-			
3.				-			
1.				-			
··	8	= Total Cov	er	=			
		rotar cov	C.				

Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Histic Epipedon (A2)  Histic Epipedon (A2)  Histic Epipedon (A3)  Histic Epipedon (A3)  Hoary Mucky Mineral (F1) (LRR R, MLRA 149B)  Coa  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Depleted Dark Marrix (S6)  Redox Depressions (F8)  Poly  Redox Depressions (F8)  Redox Depressions (F8)	indicators.)
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.     Polyvalue Below Surface (S8) (LRR R, MLRA 149B)   Coap Dark Surface (S8)   Loamy Mucky Mineral (F1) (LRR K, L)   Coap Dark Surface (S8)   Coap Depleted Matrix (F2)   Dark Surface (F6)   Coap Depleted Depleted Depleted Depleted Depleted Depleted Matrix (F3)   Depleted Depleted Depleted Matrix (S4)   Depleted Depleted Depleted Matrix (S4)   Depleted Depleted Depleted Matrix (S4)   Depleted Depleted Depleted Matrix (S5)   Depleted Matrix (S6)   Depleted Depleted Matrix (S6)   Depleted Depleted Matrix (S6)   Depleted Depleted Depleted Depleted Matrix (S6)   Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted Depleted	Domarko
3Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: F Hydric Soil Indicators: Indicator Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Coa Black Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coa Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cn Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dar Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Piec Sandy Redox (S5) Redox Depressions (F8) Piec Stripped Matrix (S6) P	Remarks
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: FHydric Soil Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Indicators: Ind	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cm Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coa Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Dar Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thir Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Gleyed Matrix (S4) — Mes Sandy Redox (S5) — Stripped Matrix (S6) — Very Dark Surface (S7) (LRR R, MLRA 149B) — Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed):  Type: Rocks/Gravel — Hydric Soil Present? Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Howard Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Red  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cm Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coa Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Dar Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thir Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Gleyed Matrix (S4) — Mes Sandy Redox (S5) — Stripped Matrix (S6) — Very Dark Surface (S7) (LRR R, MLRA 149B) — Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed):  Type: Rocks/Gravel — Hydric Soil Present? Depth (inches): 15	
Hydric Soil Indicators:  Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cm Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coa Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Dar Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thir Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Gleyed Matrix (S4) — Mes Sandy Redox (S5) — Stripped Matrix (S6) — Very Dark Surface (S7) (LRR R, MLRA 149B) — Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed):  Type: Rocks/Gravel — Hydric Soil Present? Depth (inches): 15	L = Pore Lining, M = Matrix.
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cn Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coa Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cn Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Dar Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thir Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Gleyed Matrix (S4) — Mes Sandy Redox (S5) — Stripped Matrix (S6) — Very Dark Surface (S7) (LRR R, MLRA 149B) — Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: Rocks/Gravel — Hydric Soil Present? Depth (inches): 15	rs for Problematic Hydric Soils³:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coa Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cn Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dar Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Poly Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: Rocks/Gravel Hydric Soil Present? Depth (inches): 15	,
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dar Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Poly Dark Surface (S7) (LRR R, MLRA 149B) Oth  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: Rocks/Gravel Depth (inches): 15	n Muck (A10) <b>(LRR K, L, MLRA 149B)</b> st Prairie Redox (A16) <b>(LRR K, L, R)</b>
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dar Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Mes Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Oth Oth Oth Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Depth (inches): Rocks/Gravel Hydric Soil Present? Depth (inches): 15	n Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Mes Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Oth Oth Oth Oth Sandy Redox (S7) (LRR R, MLRA 149B) Oth Hydric Soil Present? Depth (inches): 15	Surface (S7) (LRR K, L)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thir Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type: Rocks/Gravel Depth (inches): 15	value Below Surface (S8) (LRR K, L)
Indick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec  Sandy Gleyed Matrix (S4) Mes  Sandy Redox (S5) Red  Stripped Matrix (S6) Very Dark Surface (S7) (LRR R, MLRA 149B) Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type: Rocks/Gravel Hydric Soil Present?  Depth (inches): 15	Dark Surface (S9) (LRR K, L)
	Manganese Masses (F12) (LRR K, L, R)
— Sandy Gleyed Matrix (S4) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type:  Rocks/Gravel Depth (inches):  15	mont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)	ic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6) Very Oth Oth Oth Stripped Matrix (S6) Stripped Matrix (S6) Very Oth Oth Oth Oth Oth Stripped Matrix (S6) Very Oth Oth Stripped Matrix (S6) Very Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth	Parent Material (F21)
Dark Surface (S7) (LRR R, MLRA 149B) Oth  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type: Rocks/Gravel Hydric Soil Present?  Depth (inches): 15	Shallow Dark Surface (TF12)
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type:  Rocks/Gravel Depth (inches):  15  Hydric Soil Present?	er (Explain in Remarks)
Restrictive Layer (if observed):  Type:  Depth (inches):  Rocks/Gravel  Hydric Soil Present?	
Depth (inches): 15	emauc.
Depth (inches): 15	Yes No/_

Vegetation Photos



#### Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-04				
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-JJB-15; UPL-1			
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1			
Subregion (LRR or MLRA): LR	R L	Lat: 43.053994914	6 <b>Long:</b> -78.048179308	Datum: WGS84			
Soil Map Unit Name: Ontario lo	am, 3 to 8 percent slopes		NWI classif	ication:			
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	(If no, explain in Rema	rks.)			
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstances" present?	Yes No _ <b>_</b>			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Ren	narks.)			
SLIMMARY OF FINDINGS _ At	tach site map showing sampli	ng noint locations tran	osects important featu	res etc			
Hydrophytic Vegetation Present?	Yes No _		isces, important reaca	103, 000.			
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	Yes No/_			
		If yes, optional Wetland Si					
Wetland Hydrology Present?	Yes No _ <b>_</b> ∠ cedures here or in a separate report		te iD.	<del></del>			
TRC covertype is UPL. Circumstan	nces are not normal due to agricultur	ral activities, Wetter than av	verage year				
HYDROLOGY Wetland Hydrology Indicators:							
	one is required; check all that apply)		Secondary Indicators (min	imum of two required)			
•		(50)	✓ Surface Soil Cracks (B6	•			
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)				
Saturation (A3)	Aquatic Fauria (B1		Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	) Crayfish Burrows (C8)				
•		-	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Pla				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5) Inundation Visible on Aerial In	Thin Muck Surface		Shallow Aquitard (D3)	of (D4)			
Sparsely Vegetated Concave S	· · · · · · · · · · · · · · · · · · ·	Remarks)	Microtopographic Relie FAC-Neutral Test (D5)	:1 (D4)			
Field Observations:	411466 (20)						
Surface Water Present?	Yes No <u></u> ✓ Depth	(inches):					
Water Table Present?		(inches):	Wetland Hydrology Preser	nt? Yes No			
Saturation Present?		· · · · —	Wedana Hydrology i reser	it: 163140			
	Yes No Depth	(inches):					
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:				
Remarks:							

	Absolute %	Dominant	Indicator	Dominance Test workshee	et.		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Spe			
1		эресісэ.	Status	Are OBL, FACW, or FAC:	.cics illac	0	(A)
1 2.				Total Number of Dominar	nt Species		
				Across All Strata:		0	(B)
3.				Percent of Dominant Spec	cies That		
4.				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index workshe	eet:		
6				Total % Cover of:	<u>:</u>	Multiply	By:
7				<ul><li>OBL species</li></ul>		x 1 =	0
	-	= Total Cover		FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_)			FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				— UPL species	0	x 5 =	0
3.				— Column Totals	0	(A)	0 (B)
4				Prevalence Inde		.,,	0 (5)
5							<del></del>
6				Hydrophytic Vegetation In			
7.				1- Rapid Test for Hyd		egetation	
	0	= Total Cover		2 - Dominance Test i			
Herb Stratum (Plot size:5 ft)		•		3 - Prevalence Index		<b>(</b> 5	
1				4 - Morphological Ad			supporting
2.				data in Remarks or on a s  Drablematic Llydron			(مندام)
3.				Problematic Hydrop	-		
4.				<ul> <li>Indicators of hydric soil a</li> <li>present, unless disturbed</li> </ul>		-	gy must be
5.					-	iatic	
6.				Tree – Woody plants 3 in.		moro in	diameter at
7.				breast height (DBH), regar			ulameter at
8.				Sapling/shrub - Woody pl			OBH and
-				greater than or equal to 3			DDIT GITG
				Herb – All herbaceous (no			pardless of
10.				size, and woody plants les			54. 4.055 0.
11.				Woody vines - All woody			.28 ft in
12				height.	0		
		= Total Cover		Hydrophytic Vegetation F	Procent? V	2c N	lo /
Woody Vine Stratum (Plot size: 30 ft				Trydrophlydd Vegetadoll I	reserie.		···
1				_			
2				_			
3				_			
4				_			
	0	= Total Cover					
Remarks: (Include photo numbers here o	r on a separate	e sheet.)					
Active agricultural field							

	-	to the d	-			ndicator	or confirm the ab	osence of indicators.	)
Depth	Matrix		Redo			12	<b>T</b>		Para artes
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Gravelly Silt Loam		Remarks
0 - 5	10YR 3/3	100							
5 - 8	5YR 4/4	60	2.5Y 3/1	40	D	M	Silty Cl	ay Loam	
				. —					
				. —					
				. —					
									·
							_		
¹Type: C = 0	Concentration, D =	Depletion	on, RM = Reduced	d Matı	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lir	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Prob	lematic Hydric Soils³:
Histoso			-				R, MLRA 149B)	2 cm Muck (A1)	0) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark Su						edox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Mucl	-		(LRR K, I	_)	5 cm Mucky Pe	at or Peat (S3) (LRR K, L, R)
_	en Sulfide (A4)		Loamy Gleye					Dark Surface (S	57) <b>(LRR K, L)</b>
	ed Layers (A5) ed Below Dark Surf	٦٥٥ (٨11	Depleted Ma		-			Polyvalue Belov	w Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)	ace (AT	Depleted Da					Thin Dark Surfa	
	Mucky Mineral (S1)		Redox Depre						se Masses (F12) <b>(LRR K, L, R)</b>
	Gleyed Matrix (S4)				.5 (. 5)				dplain Soils (F19) <b>(MLRA 149B)</b>
_	Redox (S5)							•	TA6) <b>(MLRA 144A, 145, 149B)</b>
_	d Matrix (S6)							Red Parent Ma	
	urface (S7) <b>(LRR R, N</b>	MI RA 14	19B)					Very Shallow D	
			,					Other (Explain	in Remarks)
	of hydrophytic veg		and wetland hyd	rology	y must be	presen	t, unless disturbe	d or problematic.	
Restrictive	Layer (if observed)	:					5 1 B (2		
	Type:		Hard pan	-		Hydric	Soil Present?		Yes No⁄_
	Depth (inches):		8						
Remarks:									
ı									
i									

Vegetation Photos



Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date	e: 2019-May-29		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-04; UPL-1			
Investigator(s):Jake Brillo, Rebe	ecca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	: Hillslope	Local relief (concave, conv	ex, none): Convex	Slope (%): 2-5		
Subregion (LRR or MLRA):	RR R	Lat: 43.071279698	1 Long: -78.0533949473	Datum: WGS84		
Soil Map Unit Name: Lima silt l	oam, 3 to 8 percent slopes		NWI classi	fication:		
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes 🟒 No	(If no, explain in Rem	arks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norma	al Circumstances" present?	Yes <u></u> ✓ No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Rei	marks.)		
SUMMARY OF FINDINGS - A	ttach site map showing sampli	ng point locations, trar	nsects, important featu	ıres, etc.		
Hydrophytic Vegetation Present?	Yes No <b>_</b> ✓					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	Yes No		
		·		103110		
Wetland Hydrology Present?	Yes No _ <b>_</b>	If yes, optional Wetland Si	te ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	·)				
TRC covertype is UPL.						
HYDROLOGY						
Г						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (min	•		
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Cracks (B6			
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) <sub>R1</sub> Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospi	heres on Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (CA)	Stunted or Stressed Pl			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial Ir			Microtopographic Reli	ef (D4)		
Sparsely Vegetated Concave S		•	FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):				
Water Table Present?	Yes No <u></u> ✓ Depth	(inches):	Wetland Hydrology Prese	nt? Yes No		
Saturation Present?		(inches):	, ,			
(includes capillary fringe)	.ese					
		\ i\ i\ if -	l	<del></del>		
Describe Recorded Data (Stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	avaliable:			
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species That		
1. Acer saccharum	35	·	FACU	Are OBL, FACW, or FAC:	3	(A)
		Yes		Total Number of Dominant Species		
2. Carya cordiformis	10	Yes	FAC	Across All Strata:	7	(B)
3				Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	42.9	(A/B)
5				Prevalence Index worksheet:		
6	- ——			Total % Cover of:	Multiply I	B <u>v:</u>
7				OBL species 0	x 1 =	0
	45	= Total Cov	er	FACW species 5	x 2 =	10
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 15	x 3 =	45
1. Acer saccharum	12	Yes	FACU	FACU species 72	x 4 =	288
2. Lindera benzoin	5	Yes	FACW	- UPL species 0	x5=	0
3.				Column Totals 92	_	
4.					(A) _	343 (B)
5.				Prevalence Index = B/A =	3./	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	/egetation	
,	17	= Total Cov	or	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: _ 5 ft)		_ Total Cov	CI	3 - Prevalence Index is $\leq 3.0^{1}$		
1. Fraxinus americana	20	Yes	FACU	4 - Morphological Adaptations		supporting
	5			data in Remarks or on a separate sl		
2. Acer saccharum		Yes	FACU	Problematic Hydrophytic Vege	tation¹ (Ex	plain)
3.				Indicators of hydric soil and wetlar	ıd hydroloફ	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in c	diameter at
7				breast height (DBH), regardless of h	eight.	
8				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)		gardless of
11.				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	25	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-	·.	Hydrophytic Vegetation Present?	Yes N	0
1. Vitis riparia	5	Yes	FAC			
2.			TAC			
				-		
3.						
4				-		
	5	= Total Cov	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					

Depth (inches) 0 - 13	Matrix Color (moist) 10YR 2/2	<b>%</b> 100	Redox Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
			Color (moist)	<u>%</u>	туре	LOC <sup>2</sup>		Remarks
0-13	10YR 2/2	100						<del></del> : -
				_			Silt Loam	<u> </u>
				_				
	_							
				_				
				_				
	_			· —				
ITunal C = Car	contration D = [		n DM = Dodusod		iv MC =	Mackad	Cand Crains 21 a	ocation: DL = Doro Lining M = Matrix
		Jepiello	n, RM = Reduced	Mati	IX, IVIS –	Maskeu	Sanu Grains. *LC	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Inc						o		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A							R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epip			Thin Dark Su					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histi	Sulfide (A4)		Loamy Muck Loamy Gleye			(LKK K, L	.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Stratified I			Depleted Ma					Dark Surface (S7) (LRR K, L)
	, , ,	re (A11)	Redox Dark S					Polyvalue Below Surface (S8) (LRR K, L)
	Surface (A12)	icc (/ (/ / /	Nedox Bark s Depleted Dar					Thin Dark Surface (S9) (LRR K, L)
	ky Mineral (S1)		Redox Depre					Iron-Manganese Masses (F12) (LRR K, L, R)
	ed Matrix (S4)			55.5.	.5 (. 5)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gle Sandy Rec								Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Saridy Red Stripped N								Red Parent Material (F21)
	ce (S7) <b>(LRR R, M</b>	II DA 140	ID)					Very Shallow Dark Surface (TF12)
Dark Surio	Ce (3/) (LKK K, W	ILKA 145	ю)					Other (Explain in Remarks)
Indicators of	nydrophytic vege	etation a	ınd wetland hydr	ology	y must be	e presen	t, unless disturbed	d or problematic.
Restrictive Lay	er (if observed):							
Ту	oe:		Rocks	_		Hydric	Soil Present?	Yes No/_
De	pth (inches):		13					
Remarks:								

**Vegetation Photos** 



Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-11			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-29;	; UPL-1		
Investigator(s): Jake Brillo, Isaa	c Pallant	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Agricultural Field	Local relief (concave, conv	ex, none):_ Flat SI	ope (%): 1-10		
Subregion (LRR or MLRA): L	RR L	Lat: 43.060821874	4 Long: -78.0906348903 Da	tum: WGS84		
Soil Map Unit Name: Galen ve	ry fine sandy loam, 2 to 6 percent sloր	oes	NWI classification:			
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly di		•	No _ <b>_</b> _		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trar	nsects, important features, etc.			
Hydrophytic Vegetation Present	? Yes No _ <b>_/</b> _					
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland? Yes	No		
		i ·				
Wetland Hydrology Present?	Yes No _ <b>_</b> _	If yes, optional Wetland Si	te ID:			
Remarks: (Explain alternative pro	ocedures here or in a separate report	)				
TRC covertype is LIPI. Circumsta	nces are not normal due to agricultur	al activities. Wetter than a	verage vear			
The covertype is of E. circumsta	rices are not normal ade to agricultur	ar activities, wetter triair at	crage year			
HYDROLOGY						
Mattend Hudualam Hadiaatawa						
Wetland Hydrology Indicators:	المراسعة عمامة المماد علم واستناسه واستناسه		Casardan Hadisəkənə (minimum af A			
•	one is required; check all that apply)		Secondary Indicators (minimum of t	<u>wo requirea)</u>		
Surface Water (A1)	Water-Stained Lea		Surface Soil Cracks (B6) Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B1		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B1		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		6 6 1 5 (60)			
Sediment Deposits (B2)	Oxidized Kriizospi	neres on Living Roots (C3)	Saturation Visible on Aerial Imag	ery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)	,- , (,		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial I			Microtopographic Relief (D4)			
Sparsely Vegetated Concave			FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No _ <b>_∕</b> Depth	(inches):				
Water Table Present?	·	(inches):	Wetland Hydrology Present?	Yes No <b>_</b>		
Saturation Present?		·	. Treatment year ology 1 reseme.			
	Yes No / Depth	(inches):				
(includes capillary fringe)			<u> </u>			
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

T () () () () ()	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Species That	0	(4)
1.				Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant Species	0	(D)
3.				Across All Strata:		(B)
4.	-			Percent of Dominant Species That		(A (D)
				Are OBL, FACW, or FAC:		(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	<u>Ву:</u>
7				— OBL species0	x 1 =	0
	-	= Total Cover		FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_			FAC species 0	x 3 =	0
1				— FACU species 0	x 4 =	0
2				— UPL species 0	x 5 =	0
3				— Column Totals 0	(A)	0 (B)
4				Prevalence Index = B/A =	-	- (-)
5					<del></del>	
6				<ul><li>Hydrophytic Vegetation Indicators:</li><li> 1- Rapid Test for Hydrophytic Vegetation</li></ul>	logotation	
7				2 - Dominance Test is > 50%	regetation	
	0	= Total Cover				
Herb Stratum (Plot size:5 ft)				3 - Prevalence Index is ≤ 3.01	1 (D	
1				4 - Morphological Adaptations		supporting
2.				<ul><li>data in Remarks or on a separate sl</li><li>Problematic Hydrophytic Vege</li></ul>		nlain)
3.				Indicators of hydric soil and wetlar		•
4.				present, unless disturbed or proble		gy must be
5.				· · · · · · · · · · · · · · · · · · ·	IIIauc	
6.				Definitions of Vegetation Strata:		d:
7.	-			Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h		nameter at
						NDLL and
8				Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m		овн апи
9.				Herb – All herbaceous (non-woody)		rardless of
10				size, and woody plants less than 3.2		gai diess oi
11				Woody vines – All woody vines grea		28 ft in
12				height.	ter triair 5.	2011111
	0	= Total Cover			·/ N	
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res iv	10
1				_		
2						
3				_		
4						
	0	= Total Cover				
Remarks: (Include photo numbers here or	r on a senarate	sheet )				
include photo numbers here of	оп а зераган	e sileet.)				
Active agricultural field						
Active agricultural field						

	•	to the de	•			indicator	r or confirm the	absence of indicator	rs.)
Depth	Matrix		Redox				-		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	-	kture	Remarks
0 - 10	10YR 4/3	100		_			Silty Cl	ay Loam	
				_					
				_					
				_					
				_					
				_					
				_					
				_					
1Type: C = 0	Oncentration D = I	Denletio	n RM = Reduced	Mat	riy MS =	Masked	Sand Grains 2	Location: PL = Pore	Lining M = Matrix
Hydric Soil		- chicuo	., mir neduced	mat	, 1413 -	.riaskeu	Jana Granis.		oblematic Hydric Soils³:
Histoso			Polyvalue Bel	۰۷۷ د	urfaco (S	(2) /  DD I	D MIDA 1/OD		•
	oipedon (A2)		Polyvalue Bei Thin Dark Sui		-				10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucky						Redox (A16) (LRR K, L, R)
l ——	en Sulfide (A4)		Loamy Gleye			(=	-,		Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Mat					Dark Surface	
	d Below Dark Surfa								low Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dar	k Su	rface (F7)	)			rface (S9) (LRR K, L)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				ese Masses (F12) <b>(LRR K, L, R)</b> oodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy C	Gleyed Matrix (S4)								(TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent M	
Strippe	d Matrix (S6)								Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, M</b>	ILRA 149	B)					Other (Explai	
								•	Tim terriaries,
-	of hydrophytic veg		ind wetland hydr	olog	y must b	e presen	it, unless disturb	ed or problematic.	
	Layer (if observed): _								
	Type:	rock	encountered			Hydric	Soil Present?		Yes No _ <b>_</b> ⁄_
	Depth (inches):		10						
Remarks:									

Vegetation Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee County	S	Sampling Date: 2019	-May-28
Applicant/Owner: NextEra		State: Nev	w York Sar	mpling Point: W-JDV-	·03; PUB-1
Investigator(s):Jeff Vandeveer,	, IBP	Section, Township,	Range:		
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	/ex, none): Co	oncave	Slope (%): 0-1
Subregion (LRR or MLRA):	RR L	Lat: 43.0806724	Long: -78	8.0455767	Datum: WGS84
Soil Map Unit Name: Ontario l	oam, 3 to 8 percent slopes			NWI classification:	
Are climatic/hydrologic condition	is on the site typical for this time of ye	ear? Yes 🟒 No	(If no, ex	xplain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstan	ces" present? Ye	es 🟒 No
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any a	nswers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, trai	nsects, impo	ortant features, et	c.
Hydrophytic Vegetation Present	? Yes _ 🗸 No				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland?	Yes .	∠_ No
_		i			
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD:	W-JDV	7-03
Remarks: (Explain alternative pro	ocedures here or in a separate report	<b>(1)</b>			
TRC covertype is PUB. Ponded P	UB within a PEM wetland				
HYDROLOGY					
HIDROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all that apply)		-	dicators (minimum o	f two required)
∕ Surface Water (A1)	Water-Stained Lea	aves (B9)		oil Cracks (B6)	
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		_	Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Water Marks (B1)	Hydrogen Sulfide				
Sediment Deposits (B2)	Oxidized Rhizospl	heres on Living Roots (C3)		n Visible on Aerial Ima	ageny (C9)
Drift Danasits (P2)	Processes of Radu	cod Iron (C1)		or Stressed Plants (D1	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)		hic Position (D2)	)
Argan Mac of Crust (B4)	Thin Muck Surface		Shallow A		
✓ Inundation Visible on Aerial I				ographic Relief (D4)	
Sparsely Vegetated Concave	· · ·	inciria no,		ral Test (D5)	
Field Observations:					
Surface Water Present?	Yes <u></u> ✓ No Depth	(inches): 10			
Water Table Present?		(inches): 0	-  Wetland Hyd	lrology Present?	Yes No
Saturation Present?	,	(inches): 0	-	<i>ω</i>	
(includes capillary fringe)			-		
	n gauge, monitoring well, aerial photo	\(\text{in an a stime }\) if			
Describe Recorded Data (stream	rgauge, monitoring well, aeriai prioto	s, previous irispections), ii d	avallable.		
Remarks:					

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works  Number of Dominant S	Species That	0	(A)
	<u> </u>		Are OBL, FACW, or FAC Total Number of Domir		0	(B)
			Across All Strata:			
						(A/B)
					Multiply	Bv:
			— OBL species	0		0
0	= Total Cover		FACW species	0	-	0
)				0	-	0
			<u> </u>		-	0
			<u> </u>		-	0
			<u> </u>		=	0 (B)
			_		(/-)	0 (b)
					egetation/	
	= Total Cover					
	-					
						supporting
			,		,	gy must be
			· ·		matic	
			_			
						diameter at
						OBH and
						gardless of
			·			20.6.
			-	dy vines great	ter than 3	.28 ft in
	= Total Cover					
	•		Hydrophytic Vegetatio	n Present? \	Yes <u>√</u> N	lo
,			_			
-			_			
			_			
0	= Total Cover		_			
	·					
	0	0 = Total Cover  0 = Total Cover	0 = Total Cover  0 = Total Cover	Percent of Dominant S Are OBL, FACW, or FAC  Prevalence Index work:  Total % Cover  OBL species FACW species FAC species FAC species UPL species Column Totals Prevalence Ind 1- Rapid Test for H 2 - Dominance Te 3 - Prevalence Ind 4 - Morphological data in Remarks or on ✓ Problematic Hydr Indicators of hydric so present, unless disturb  Definitions of Vegetatic Tree - Woody plants 3 i breast height (DBH), re Sapling/shrub - Woody greater than or equal t Herb - All herbaceous size, and woody plants Woody vines - All woodheight. Hydrophytic Vegetation	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 0 FACW species 0 FACU species 0 UPL species 0 Column Totals 0 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetations data in Remarks or on a separate sh  2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sh  2 - Problematic Hydrophytic Vege ¹Indicators of hydric soil and wetlan present, unless disturbed or probletofinitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) on breast height (DBH), regardless of heat of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem of the problem o	Percent of Dominant Species That  Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  OB

Depth Matrix (inches) Color (moist) %		% Type¹	Loc²	Texture	Remarks
		· — — —			
		. — —			
	<del>.</del> .	<del> </del>			<del>_</del> ·
	-	<del> </del>			
	· -	<del></del>			
	· -	<del></del>			<u> </u>
Type: C = Concentration, D = Depl	etion, RM = Reduce	d Matrix, MS	= <del></del> = Masked	Sand Grains. <sup>2</sup> Lo	reation: PL = Pore Lining, M = Matrix.
ydric Soil Indicators:	·	· · · · · · · · · · · · · · · · · · ·			Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	-			R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Epipedon (A2) Black Histic (A3)	Thin Dark Su Loamy Muck				Coast Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Gleye	-		-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Depleted Ma				Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
_ Depleted Below Dark Surface (A Thick Dark Surface (A12)	A11) Redox Dark Depleted Da		7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)	Redox Depr	-	<i>/</i> )		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)					Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)					Red Parent Material (F21)
Stripped Matrix (S6)	1.40D)				Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA	1498)				<u>✓</u> Other (Explain in Remarks)
ndicators of hydrophytic vegetation	on and wetland hyd	rology must	be preser	nt, unless disturbed	d or problematic.
estrictive Layer (if observed):	Dondad		Lludric	Cail Dracant?	Voc. / No
Type: Depth (inches):	Ponded 0	•	Hydric	Soil Present?	Yes No
emarks:	0				
ue to inundation a clear soil profi	le was unobtainabl	e. Soils are as	ssumed to	be hydric.	

**Vegetation Photos** 



Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-May-31			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-10; PEM-1			
Investigator(s):Jake Brillo, Reb	ecca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Swale	Local relief (concave, conv	ex, none): Conc	ave	Slope (%): 2-5	
Subregion (LRR or MLRA): L	RR L	Lat: 43.069591872	2 <b>Long:</b> -78.0	635016419	Datum: WGS84	
Soil Map Unit Name: Ontario l	oam, 0 to 3 percent slopes			NWI classification:	: R4SBAx	
Are climatic/hydrologic condition	s on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no, expla	in in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances	•	es No <b>⁄_</b>	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any ansv	wers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trai	nsects, import	ant features, e	tc.	
Hydrophytic Vegetation Present	? Yes _ 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes	∠_ No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S		W-JJB		
	<u> </u>	·	ite ib.		-10	
Remarks: (Explain alternative pro	ocedures here or in a separate report	)				
TRC covertype is PEM. Circumsta	ances are not normal due to agricultu	ral activities, Wetter than a	verage year			
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indic	cators (minimum o	of two required)	
Surface Water (A1)	Water-Stained Lea	aves (B9)	✓ Surface Soil			
High Water Table (A2)	Aquatic Fauna (B1	3)	_✓ Drainage Pa			
<u></u> Saturation (A3)	Marl Deposits (B1		Moss Trim Li			
Water Marks (B1)	Hydrogen Sulfide		Crayfish Bur	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospi	neres on Living Roots (C3)	•	isible on Aerial Im	agery (C9)	
Drift Danosits (R3)	Presence of Podu	cod Iron (CA)		Stressed Plants (D1		
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu	ction in Tilled Soils (C6)	Stuffled of 3	•	1)	
Iron Deposits (B5)	Thin Muck Surface		Shallow Aqu			
Inundation Visible on Aerial I				raphic Relief (D4)		
Sparsely Vegetated Concave		,	✓ FAC-Neutral	•		
Field Observations:						
Surface Water Present?	Yes No 🟒 Depth	(inches):				
Water Table Present?		(inches):	· Wetland Hydrol	ogy Present?	Yes No	
Saturation Present?		(inches): 0			<del>-</del> -	
(includes capillary fringe)	163 <u>v</u> 110 Beptil					
	n gauge, monitoring well, aerial photo	\(\dot\) if				
Describe Recorded Data (stream	r gauge, monitoring well, aeriai photos	s, previous irispections), ii d	avaliable.			
Remarks:						

VEGETATION OSE SCIENTIFIC Harries of plant		Daminant	Indiantan	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Dominant Species?	Status	Number of Dominant Species Th	ot.	
1.	70 COVE	Species:	Status	Are OBL, FACW, or FAC:	2	(A)
2.				Total Number of Dominant Spec	es 2	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species Th	t 100	(A/B)
5.				Are OBL, FACW, or FAC:		
·				Prevalence Index worksheet:		
7.				Total % Cover of:	<u>Multiply I</u>	<u>By:</u>
		= Total Cov	or	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		- Total Cov	CI	FACW species 70	x 2 =	140
				FAC species 35	x 3 =	105
1.				- FACU species 0	x 4 =	0
2				- UPL species 0	x 5 =	0
3				- Column Totals 105	(A)	245 (B)
4				Prevalence Index = B/A		
5				Hydrophytic Vegetation Indicato		
6				- Land 1- Rapid Test for Hydrophy		
7				2 - Dominance Test is >50%	ic vegetation	
	0	= Total Cov	er	✓ 2 - Dominance Test is >50%  ✓ 3 - Prevalence Index is ≤ 3.	<b>N</b> 1	
Herb Stratum (Plot size:5 ft)	·	-				
1. Phalaris arundinacea	60	Yes	FACW	4 - Morphological Adaptation		supporting
2. Rumex crispus	35	Yes	FAC	data in Remarks or on a separate		-l-:-)
3. Solidago gigantea	10	No	FACW	Problematic Hydrophytic V		
4.				Indicators of hydric soil and wet		gy must be
5.				present, unless disturbed or pro	Diemauc	
6.				Definitions of Vegetation Strata:		
-				Tree – Woody plants 3 in. (7.6 cm		liameter at
7				breast height (DBH), regardless	_	
8.				Sapling/shrub - Woody plants le		IBH and
9				greater than or equal to 3.28 ft (		
10				Herb – All herbaceous (non-woo size, and woody plants less than		aruless of
11				Woody vines – All woody vines g		20 ft in
12				height.	eater triair 5	20 11 111
	105	= Total Cov	er			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present	YesN	0
1						
2.						
3.						
4.						
		= Total Cov	er	-		
		-				
Remarks: (Include photo numbers here or on a sep	arate sheet.)					
Active agricultural field						

Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)  Sandy Redox (S5)  Stripped Matrix (S4)  Stripped Matrix (S6)  Depleted Surface (CTALL PR R. MLRA 149B)  Loamy Mucky Mineral (F1) (LRR K, L)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Depleted Matrix (F3)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)  Piece  Mes  Red  Very	Remarks  L = Pore Lining, M = Matrix.  rs for Problematic Hydric Soils <sup>3</sup> :
1Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. 2Location: F Hydric Soil Indicators: Indicator Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cn Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — 5 cn Hydrogen Sulfide (A4) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cn Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Darl Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thin Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Thin Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Mucky Mineral (S4) — Redox Depressions (F8) — Piec Sandy Redox (S5) — Red Sandy Redox (S5) — Red Sandy Redox (S7) (LRR R, MLRA 149B) — Oth  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type:	L = Pore Lining, M = Matrix.
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: F  *Hydric Soil Indicators: Indicator	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Alistic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Redox Depressions (F8) Hydric Soil Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  *Restrictive Layer (if observed): Type: Depth (inches):  Indicator  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cn	
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cn Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coa Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cn Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) — Darl Stratified Layers (A5) — Depleted Matrix (F3) — Poly Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thir Thick Dark Surface (A12) — Depleted Dark Surface (F7) — Iron Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piec Sandy Gleyed Matrix (S4) — Mes Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B) — Oth  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: None — Hydric Soil Present?	s for Problematic Hyuric Soils.
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coa Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cn Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Pork Stripped Matrix (S6) Oth Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: None Hydric Soil Present?	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cn Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Darl Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thirk Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: None Hydric Soil Present?	Muck (A10) (LRR K, L, MLRA 149B)
	t Prairie Redox (A16) <b>(LRR K, L, R)</b>
Stratified Layers (A5) Depleted Matrix (F3) Poly Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Perconduction of the surface (S7) (LRR R, MLRA 149B) Other Sandy Surface (S7) (LRR R, MLRA 149B) Other Surface (S7) (LRR R, MLRA 149B) Hydric Soil Present? Surface (S7) (LRR R, MLRA 149B) Hydric Soil Present? Depth (inches):	Mucky Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thir Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Very Dark Surface (S7) (LRR R, MLRA 149B) Other Surface (S7) (LRR R, MLRA 149B)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed):  Type: None Hydric Soil Present?  Depth (inches):	Surface (S7) (LRR K, L)
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Very Dark Surface (S7) (LRR R, MLRA 149B) Oth Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed): Type: None Hydric Soil Present? Depth (inches):	alue Below Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piec Sandy Gleyed Matrix (S4) Mes Sandy Redox (S5) Red Stripped Matrix (S6) Very Dark Surface (S7) (LRR R, MLRA 149B) Oth  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed): Type: None Hydric Soil Present? Depth (inches):	Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?	Manganese Masses (F12) (LRR K, L, R)
Sandy Redox (55) Red Very Oth Stripped Matrix (S6) Stripped Matrix (S6) Oth Oth Oth Restrictive Layer (if observed): Type: None Depth (inches): Depth (inches): Hydric Soil Present?	mont Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Very Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B) Oth Surface (S7) (LRR R, MLRA 149B)	c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Dark Surface (S7) (LRR R, MLRA 149B) Oth-  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prob  Restrictive Layer (if observed):  Type: None Hydric Soil Present?  Depth (inches):	Parent Material (F21)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?	Shallow Dark Surface (TF12)
Restrictive Layer (if observed):  Type:  Depth (inches):  None  Hydric Soil Present?	r (Explain in Remarks)
Type: None Hydric Soil Present?  Depth (inches):	ematic.
Depth (inches):	
	Yes No
Remarks:	





Project/Site: Excelsior	City/County: By	ron, Genesee	Sampling Date:	: 2019-June-12
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-JJB-33; PEM-1
vestigator(s): Jake Brillo, Isaac P	allant	Section, Township, F	ange:	
andform (hillslope, terrace, etc.):	Depression	Local relief (concave, conve	x, none): Concave	Slope (%): 0-1
ubregion (LRR or MLRA): LRR	L	Lat: 43.0560347345	Long: -78.0884694402	Datum: WGS84
oil Map Unit Name: Lamson ver	y fine sandy loam		NWI classifi	cation:
e climatic/hydrologic conditions o	n the site typical for this time of y	year? Yes No _	✓ (If no, explain in Remar	·ks.)
re Vegetation, Soil,	or Hydrology significantly of		Circumstances" present?	Yes No _ <b>_</b> /
re Vegetation, Soil,	or Hydrology naturally pro	blematic? (If needed, e	xplain any answers in Rem	iarks.)
JMMARY OF FINDINGS – Atta	ach site map showing samp	ling point locations, trans	sects, important featur	es, etc.
lydrophytic Vegetation Present?	Yes _ 🗸 No			
lydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area within	a Wetland?	Yes/_ No
		·		
Vetland Hydrology Present?	Yes No	If yes, optional Wetland Sit	e in:	W-JJB-33
emarks: (Explain alternative proce	dures here or in a separate repo	rt)		
RC covertype is PEM. Wetter than	average vear			
YDROLOGY				
TURULUGI				
Vetland Hydrology Indicators:				
rimary Indicators (minimum of on	e is required; check all that apply	n s	Secondary Indicators (mini	mum of two required)
•	⁄ Water-Stained L		Surface Soil Cracks (B6)	•
Surface Water (A1) ✓ High Water Table (A2)	Aquatic Fauna (E		Drainage Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (E	3.13)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfid		Dry-Season Water Table	(C2)
Sediment Deposits (B2)	Ovidized Rhizos	pheres on Living Roots (C3)	Crayfish Burrows (C8)	
seamene beposits (b2)		-	Saturation Visible on Ae	rial Imagery (C9)
Drift Deposits (B3)	Presence of Red	luced Iron (C4)	Stunted or Stressed Pla	nts (D1)
Algal Mat or Crust (B4)	<del></del>	` '	✓ Geomorphic Position (D	` '
Iron Deposits (B5)	Thin Muck Surfa	` ' -	Shallow Aquitard (D3)	_,
Inundation Visible on Aerial Ima	<del></del>		Microtopographic Relief	f (D4)
Sparsely Vegetated Concave Sur			✓ FAC-Neutral Test (D5)	(- ')
ield Observations:				
urface Water Present?	Yes No <u></u> ✓ Dept	:h (inches):		
/ater Table Present?		<del></del>	Netland Hydrology Present	t? Yes No
aturation Present?		<del></del> -	vectaria riyarology r resem	i: 163_ <u>/</u> _140
	Yes No Dept	th (inches):		
ncludes capillary fringe)				
Describe Recorded Data (stream ga	uge, monitoring well, aerial phot	os, previous inspections), if a	ailable:	
temarks:				
vernarks.				

·				To		
Tree Stratum (Plot size: 30 ft )		Dominant		Dominance Test worksheet:	Th -4	
	% Cover	Species?	Status	Number of Dominant Species Are OBL, FACW, or FAC:	<sup>1</sup> 1	(A)
1				Total Number of Dominant Sp		
2				Across All Strata:	ecies 1	(B)
3.				Percent of Dominant Species		<u></u>
4				Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		<del></del>
6.				Total % Cover of:	Multiply	D. a
7.					<u>Multiply</u>	-
		= Total Cove	r	OBL species 0	x1=	0
Sapling/Shrub Stratum (Plot size: 15 ft )	-	=		FACW species 85	x 2 =	170
1				FAC species 10	x 3 =	30
2.				FACU species 0	x 4 =	0
3.				UPL species 0	x 5 =	0
-				Column Totals 95	(A)	200 (B)
4				Prevalence Index = E	3/A =2.1	
5				Hydrophytic Vegetation Indica	tors:	
6				1- Rapid Test for Hydropl		
7				✓ 2 - Dominance Test is >50		
	0	_= Total Cove	r	✓ 3 - Prevalence Index is ≤		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adapta		supporting
1. <i>Phragmites australis</i>	85	Yes	FACW	data in Remarks or on a separ		3upporting
2. Solanum dulcamara	10	No	FAC	Problematic Hydrophytic		nlain)
3.				¹Indicators of hydric soil and w	-	•
4.				present, unless disturbed or p	-	ду пизсье
5.				Definitions of Vegetation Strat		_
6.				Tree – Woody plants 3 in. (7.6		diameter at
7.				breast height (DBH), regardles		ulailletei at
8.				Sapling/shrub – Woody plants		OBH and
9.				greater than or equal to 3.28 f		DDIT and
40				Herb – All herbaceous (non-wo		ardless of
10				size, and woody plants less that		gai aicss oi
11				Woody vines – All woody vines		28 ft in
12				height.	greater than 3.	.2016111
	95	_= Total Cove	r			
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation Prese	nt? Yes N	10
1						
2						
3.						
4.						
	0	= Total Cove	r			
Demonstration (to all other the growth and become a constant						
Remarks: (Include photo numbers here or on a separ	ate sneet.)					

Depth	Matrix	to the	-			indicator	or confirm the ab	osence of indicators.)
(inches) (		04	Redo:			1002	Toytura	Domarke
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 3/2	95	7.5YR 3/4	5	C	M/PL	Silt Loam	
		- —		_				
<del></del>		- —		_				
		- —		. —				
				_				
				_				
¹Type: C = Cond	entration, D =	 Deplet	ion, RM = Reduce	d Ma	trix, MS =	- Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indi	cators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1	)		Polyvalue B	elow	Surface (	S8) <b>(LRR I</b>	R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Epipe	don (A2)		Thin Dark S					Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic	(A3)		Loamy Muc	ky Mi	neral (F1	) (LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen S			Loamy Gley					Dark Surface (S7) (LRR K, L)
Stratified La			Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
		ace (A1	1)/ Redox Dark		, ,			Thin Dark Surface (S9) (LRR K, L)
	Surface (A12)		Depleted Da		-	<b>/</b> )		Iron-Manganese Masses (F12) (LRR K, L, R)
	ky Mineral (S1)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
	ed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redo								Red Parent Material (F21)
Stripped Ma								Very Shallow Dark Surface (TF12)
Dark Surfac	e (S7) <b>(LRR R, N</b>	/ILRA 1	49B)					Other (Explain in Remarks)
³Indicators of h	ydrophytic veg	etation	and wetland hyd	drolog	gy must l	oe presen	t, unless disturbe	d or problematic.
Restrictive Laye	er (if observed):							
Тур	e:		Thick roots			Hydric S	oil Present?	Yes No
Dep	oth (inches):		8					
Remarks:								

Hydrology Photos



**Vegetation Photos** 





Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-May-29			
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-JJB-04; PFO-1		
Investigator(s): Jake Brillo, Reb	pecca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 2-5		
Subregion (LRR or MLRA): L	_RR L	Lat: 43.071314776	4 Long: -78.0535064266	Datum: WGS84		
Soil Map Unit Name: Lima silt	loam, 3 to 8 percent slopes		NWI classif	ication:		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes <u></u> ✓ No	(If no, explain in Rem	arks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Rer	narks.)		
Summary of Findings - A	Attach site map showing sampliı	ng point locations, trai	nsects, important featu	res, etc.		
Hydrophytic Vegetation Present	:? Yes _ <b>✓</b> _ No					
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area withi	n a Wetland?	Yes/_ No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-JJB-04		
Remarks: (Explain alternative pr	ocedures here or in a separate report	)				
TRC covertype is PFO.						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; check all that apply)		Secondary Indicators (min	•		
✓ Surface Water (A1)	<u></u> Water-Stained Lea		Surface Soil Cracks (B6			
✓ High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide		6 6 1 5 (60)			
Sediment Deposits (B2)	Oxidized Khizospr	neres on Living Roots (C3)	Saturation Visible on A	erial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Pla	3 ,		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	✓ Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial			✓ Microtopographic Relie	ef (D4)		
Sparsely Vegetated Concave			✓ FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 3	Wetland Hydrology Preser	nt? Yes No		
Saturation Present?	•	(inches): 0				
	763 <u>-</u> 7-110 Depti		=			
(includes capillary fringe)			1.11			
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						

-	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species That		
1. Acer rubrum	20	Yes	FAC	Are OBL, FACW, or FAC:	5	(A)
2. Acer saccharinum	12	Yes	FACW	Total Number of Dominant Species		
-	10	Yes	FAC	Across All Strata:	5	(B)
·· <u>·· · · · · · · · · · · · · · · · · </u>		162	FAC	Percent of Dominant Species That	100	(A (B)
4.				Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	<u>By:</u>
7				- OBL species 0	x 1 =	0
	42	= Total Cove	er	FACW species 82	x 2 =	164
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 30	x 3 =	90
1. <i>Lindera benzoin</i>	55	Yes	FACW	FACU species 0	x 4 =	0
2				- UPL species 0	x 5 =	0
3.				Column Totals 112	(A)	254 (B)
4				Prevalence Index = B/A =	-	23: (2)
5						
6.				Hydrophytic Vegetation Indicators:	/ t - t! - ·-	
7.				1- Rapid Test for Hydrophytic	/egetation	
	55	= Total Cove	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)	-	_		3 - Prevalence Index is ≤ 3.0¹	1.00	
1. Lindera benzoin	15	Yes	FACW	4 - Morphological Adaptations		supporting
2.				data in Remarks or on a separate sl		la:)
3.				Problematic Hydrophytic Vege		•
4.				Indicators of hydric soil and wetlar		gy must be
5.				present, unless disturbed or proble	matic	
6.				Definitions of Vegetation Strata:		dia
7.		<del></del>		Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h		diameter at
				Sapling/shrub – Woody plants less t	_	DDLL and
8.				greater than or equal to 3.28 ft (1 m		овн апи
9.				Herb – All herbaceous (non-woody)		ardless of
10				size, and woody plants less than 3.2		gai diess oi
11				Woody vines – All woody vines grea		28 ft in
12				height.	ter triair 5.	.20 16 111
	15	= Total Cov	er		V ( )	
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res IV	10
1				_		
2				_		
3						
4.				_		
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separat	o choot )			-		
Remarks. (include prioto numbers here or on a separat	e sileet.)					

	cription: (Describe	to the d	•			ndicator	or confirm the al	osence of indicat	ors.)
Depth	Matrix		Redo				<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 4	10YR 2/1	100					Silt Lo		
4 - 8	7.5YR 3/2	70	7.5YR 6/6	30	C	M	Silty Clay		
8 - 14	7.5YR 6/4	90	7.5YR 5/6	10	C	M	Clay L	oam	
				- —					
				. —					
				- —					
	-								
¹Type: C =	Concentration, D =	Depletion	on, RM = Reduced	d Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Por	e Lining, M = Matrix.
Hydric Soil	Indicators:			_				Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histoso							R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su						ie Redox (A16) <b>(LRR K, L, R)</b>
	listic (A3)		Loamy Muck	-		(LRR K, L	)		y Peat or Peat (S3) <b>(LRR K, L, R)</b>
	gen Sulfide (A4)		Loamy Gleye						ce (S7) <b>(LRR K, L)</b>
	ed Layers (A5)	(844	Depleted Ma					Polyvalue B	Below Surface (S8) (LRR K, L)
	ed Below Dark Surf Park Surface (A12)	ace (A i i	Depleted Da					Thin Dark S	Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre					Iron-Manga	anese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depi	233101	15 (1-0)				loodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)							Mesic Spod	lic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-								Red Parent	
	d Matrix (S6) urface (S7) <b>(LRR R, N</b>	ALDA 14	OP)						w Dark Surface (TF12)
Dark 30	urrace (37) <b>(LKK K, r</b>	VILKA 14	96)					Other (Expl	ain in Remarks)
3Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e presen	t, unless disturbe	d or problematio	
Restrictive	Layer (if observed)	:							
	Type:		None	_		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
1									
l									
İ									

Hydrology Photos



**Vegetation Photos** 





Photo of Sample Plot



Project/Site: Excelsior	City/County:_ E	Byron, Genesee County	Sampling Da	ate: 2019-June-07		
Applicant/Owner: NextEra		State: Nev	v York Sampling Poin	t: W-JJB-22; PFO-1		
nvestigator(s): Jake Brillo, Nic	ik DeJohn	Section, Township,	Range:			
Landform (hillslope, terrace, etc	c.): Swamp	Local relief (concave, conv	ex, none): Concave	Slope (%): 2-5		
Subregion (LRR or MLRA):	LRR L	Lat: 43.0790059	Long: -78.0739155	Datum: WGS84		
Soil Map Unit Name: Alden n	າucky silt loam		NWI class	sification: PFO1/SS1B		
Are climatic/hydrologic conditio	ns on the site typical for this time of	year? Yes No	_ <b>∠</b> (If no, explain in Ren	narks.)		
Are Vegetation, Soil,			al Circumstances" presen			
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed,	explain any answers in R	emarks.)		
SUMMARY OF FINDINGS -	Attach site map showing sam	pling point locations, trar	nsects, important feat	tures, etc.		
Hydrophytic Vegetation Presen	it? Yes 🗸 No					
Hydric Soil Present?	Yes _ 🗸 No	Is the Sampled Area withi	n a Wetland?	Yes No		
•		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	te id:	W-JJB-22		
Remarks: (Explain alternative p	rocedures here or in a separate rep	ort)				
TRC covertype is PFO. Wet sprii	ng.					
IYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; check all that app	ly)	Secondary Indicators (m	inimum of two required)		
Surface Water (A1)	Water-Stained	Leaves (B9)	Surface Soil Cracks (E	36)		
High Water Table (A2)	Aquatic Fauna		Drainage Patterns (B	10)		
✓ Saturation (A3)	Marl Deposits		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfi		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizo	spheres on Living Roots (C3)				
Sediment Deposits (D2)	Oxidized ittiizo	spricies on Living Roots (es)	Saturation Visible on	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Re	duced Iron (C4)	Stunted or Stressed F			
Algal Mat or Crust (B4)		duction in Tilled Soils (C6)	✓ Geomorphic Position			
Iron Deposits (B5)	Thin Muck Sur		Shallow Aquitard (D3			
Inundation Visible on Aerial			✓ Microtopographic Re			
Sparsely Vegetated Concave	· · · · · · · · · · · · · · · · · · ·	III Kelliai KS)	✓ FAC-Neutral Test (D5)			
	s Surface (B8)		FAC-Neutral Test (D3)	1		
Field Observations:						
Surface Water Present?	Yes No/ Dep	oth (inches):				
Water Table Present?	Yes No Dep	oth (inches):	Wetland Hydrology Pres	ent? Yes No		
Saturation Present?	Yes 🗸 No Dep	oth (inches): 0				
(includes capillary fringe)						
Describe Recorded Data (streat	m gauge, monitoring well, aerial pho	otos, previous irispections), ii a	avallable.			
Remarks:						

uja occidentalis axinus pennsylvanica	75 5		Status	Number of Dominant Species That	3	(A)
, ,	5	Yes	FACW	Are OBL, FACW, or FAC:		
		No	FACW	Total Number of Dominant Species Across All Strata:	3	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply B	<u>sy:</u>
				OBL species 60	x 1 =	60
	80	_= Total Cov	er	FACW species 110	x 2 =	220
g/Shrub Stratum (Plot size:15 ft)				FAC species 10	x 3 =	30
axinus pennsylvanica	20	Yes	FACW	FACU species 13	x 4 =	52
rnus alternifolia	5	No	FACU	UPL species 0	x 5 =	0
unus virginiana	1	No	FACU	Column Totals 193	(A)	362 (B)
	- ——			Prevalence Index = B/A =	-	
				-		
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	vegetation	
	26	= Total Cov	er	2 - Dominance Test is >50%		
Stratum (Plot size: <u>5 ft</u> )		-		3 - Prevalence Index is ≤ 3.0¹		
mplocarpus foetidus	60	Yes	OBL	4 - Morphological Adaptation		upporting
rex intumescens	10	No	FACW	data in Remarks or on a separate s	=	
uisetum arvense	10	No	FAC	Problematic Hydrophytic Veg	-	
rnus alternifolia	7	No	FACU	¹Indicators of hydric soil and wetla	,	y must be
Thus alternitolia			TACO	present, unless disturbed or proble	ematic	
	- ——			Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)		iameter a
	- ——			breast height (DBH), regardless of		
				Sapling/shrub – Woody plants less		BH and
	- ——			greater than or equal to 3.28 ft (1 r		
				_		ardless of
						0 6t i
					ater than 3.2	α π in
	87	= Total Cov	er			
y Vine Stratum (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes No	·
	. ——					
	- ——			•		
	0	= Total Cov	er	•		
		= Total Cov	er	Herb – All herbaceous (non-woody size, and woody plants less than 3.  Woody vines – All woody vines greheight.  Hydrophytic Vegetation Present?	28 ft i	tall. han 3.2

Depth (inches)         Matrix         Redox Features           0 - 25         10YR 2/2         100         Solve (moist)         Norg matter Mucky Peat         Redox Features           0 - 25         10YR 2/2         100         Solve (moist)         Org matter Mucky Peat           25 - 30         2.5Y 4/1         100         Solve (moist)         Clay	Remarks
0 - 25 10YR 2/2 100 Org matter Mucky Peat	
·	
	-
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric S	OIIS3:
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLR	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) For Mucky Poet or Poet (S2) (4)	
— S cm Mucky Peat or Peat (S3) (L	_RR K, L, R)
Stratified Layers (A5)  Deplated Matrix (E3)  Deplated Matrix (E3)	
Depleted Relow Dark Surface (A11) Redox Dark Surface (F6) — Polyvalue Below Surface (S8) (L	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (	
Piedmont Floodplain Soils (F19)Sandy Gleyed Matrix (S4)	
Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A	, 145, 1498)
Stripped Matrix (S6) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF1	2)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	2)
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type: Clay Hydric Soil Present? Yes ✓ No	)
Depth (inches): 30	<u> </u>
Remarks:	
remarks.	

Hydrology Photos



**Vegetation Photos** 



#### Soil Photos

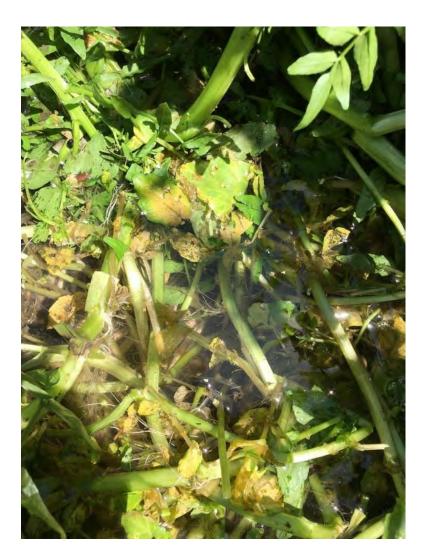


Project/Site: Excelsior	City/County: Byron	, Genesee	Sampling Date: 2019-June-07			
Applicant/Owner: NextEra		State: NY	Sampling Point: \[ \]	V-JJB-23; PEM-1		
Investigator(s): Jake Brillo, Nick DeJohn		Section, Township,	Range:			
Landform (hillslope, terrace, etc.): Swale	L	ocal relief (concave, conv	ex, none): Flat	Slope (%): 1-10		
Subregion (LRR or MLRA): LRR L		Lat: 43.073476972	1 Long: -78.0763792154	Datum: WGS84		
Soil Map Unit Name: Appleton silt loam, 0 to			NWI classific			
Are climatic/hydrologic conditions on the site t	• •		_✓ (If no, explain in Remark			
	ogy significantly dist		al Circumstances" present?	Yes _ <b>∠</b> No		
Are Vegetation, Soil <u>_</u> ✓, or Hydrol	ogy naturally proble	matic? (If needed,	explain any answers in Rema	arks.)		
SUMMARY OF FINDINGS – Attach site n	nap showing sampling	g point locations, trar	nsects, important feature	es, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No I	s the Sampled Area withi	n a Wetland?	Yes No		
Wetland Hydrology Present?	Yes No I	f yes, optional Wetland Si	te ID:	W-JJB-23		
TRC covertype is PEM. Circumstances are not	normal due to agricultura	l activities, Wetter than a	verage year			
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required)  Surface Water (A1)	ed; check all that apply) Water-Stained Leav	es (R9)	Secondary Indicators (minim Surface Soil Cracks (B6)	num of two required)		
✓ High Water Table (A2)	Aquatic Fauna (B13		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15)		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide O	dor (C1)	•	ry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizosphe	eres on Living Roots (C3)	Crayfish Burrows (C8)	•		
D 16 D 11 (D2)			✓ Saturation Visible on Aer			
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduce	on in Tilled Soils (C6)	Stunted or Stressed Plan _ Geomorphic Position (D2			
Algal Mat of Crust (B4) Iron Deposits (B5)	Thin Muck Surface (		Shallow Aquitard (D3)	-)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re		Microtopographic Relief	(D4)		
Sparsely Vegetated Concave Surface (B8)		·	FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	No Depth (i	nches): 3				
Water Table Present? Yes <u>✓</u>	No Depth (i	nches): 0	Wetland Hydrology Present	Yes No		
Saturation Present? Yes 🟒	No Depth (i	nches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, moni	toring well, aerial photos,	previous inspections), if a	vailable:			
Water flowing from PUB						
Remarks:				_		
Cool, clear water flowing through vegetated s	wale					

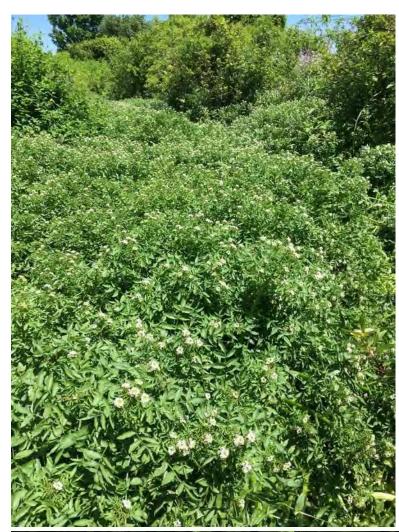
	Abaaluta	Daminant	I	Dominance Test workshee	<b></b>		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Status	Number of Dominant Spe			
	% Cover	3pecies:	Status	Are OBL, FACW, or FAC:	cies mat	1	(A)
1				Total Number of Dominan	t Charies		
2				Across All Strata:	it species	1	(B)
3				Percent of Dominant Spec	ioc That		
4				Are OBL, FACW, or FAC:	les mat	100	(A/B)
5				Prevalence Index workshe	not:		_
6.				Total % Cover of:		Multiply [	2
7.					•	Multiply E	-
		= Total Cove	r	OBL species	90	x 1 =	90
Sapling/Shrub Stratum (Plot size:15 ft)		_		FACW species	15	x 2 =	30
1				FAC species	0	x 3 =	0
2.				FACU species	0	x 4 =	0
-				UPL species	0	x 5 =	0
3.				Column Totals	105	(A)	120 (B)
4.				Prevalence Inde	x = B/A =	1.1	
5				Hydrophytic Vegetation In	dicators:		-
6				1- Rapid Test for Hyd		egetation	
7				✓ 2 - Dominance Test is		-801411011	
	0	= Total Cove	r	✓ 3 - Prevalence Index			
Herb Stratum (Plot size:5 ft)				4 - Morphological Ad		(Provide s	unnorting
1. Nasturtium officinale	90	Yes	OBL	data in Remarks or on a se			supporting
2. Cornus alba	15	No	FACW	Problematic Hydropl			nlain)
3.				¹Indicators of hydric soil a	-		
4.				present, unless disturbed			y must be
5.				<del> </del>		Hatic	
6.				Definitions of Vegetation S			
7.				Tree – Woody plants 3 in. (			llameter at
				breast height (DBH), regar		_	Diland
8.				Sapling/shrub – Woody pla greater than or equal to 3			вп апи
9				Herb – All herbaceous (no			ardlass of
10				size, and woody plants les			aruless or
11				Woody vines – All woody \			00 ft in
12				height.	viiles great	.ci (iiaii 3.2	20 11 111
	105	= Total Cove	r				
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation P	resent? Y	es 🟒 N	0
1							
2.							
3.							
4.							
		= Total Cove	r				
		-					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Profile Desc	ription: (Describe to Matrix	the	depth needed to o			indicato	r or confirm the a	absence of indicators.)
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture	Remarks
		_						
		_						
		_						
		_		_				
		_						
		_		- —				
		_						<del></del> , <del></del> _
		_		_				
		<del>.</del>		<del></del>				
Type: C = C	oncentration, D = De	eplet	ion, RM = Reduce	d Ma	trix, MS =	Maskec	Sand Grains. <sup>2</sup> L	_ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	elow	Surface (S	58) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Su	urface	e (S9) <b>(LR</b> I	R R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3) n Sulfide (A4)		Loamy Muck	-		(LRR K,	L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Loamy Gleye Depleted Ma					Dark Surface (S7) (LRR K, L)
	d Below Dark Surfac	e (A1	1) Redox Dark	Surfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Da			')		Iron-Manganese Masses (F12) (LRR K, L, R)
-	ucky Mineral (S1) leyed Matrix (S4)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, ML</b>	RA 1	49B)					Very shallow bank surface (1112) Other (Explain in Remarks)
-	of hydrophytic veget	atior	n and wetland hyd	Irolog	gy must b	e presei	nt, unless disturb	ed or problematic.
Restrictive L	ayer (if observed):					l	C 11 D 12	v
	Type:		None	-		Hydric	Soil Present?	Yes No
Remarks:	Depth (inches):							<del></del>
Due to inun	dation a clear soil pi	rofile	was unobtainabl	e. Soi	ils are ass	sumed to	o be hydric.	

**Hydrology Photos** 



Vegetation Photos



Soil Photos





Project/Site: Excelsior	City/County: Byro	on, Genesee		Sampling Date: 2019-June-04		
Applicant/Owner: NextEra		State: NY	Sa	ampling Point: W-JJB-	13; UPL-2	
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): F	lat	Slope (%): 0-1	
Subregion (LRR or MLRA): LR	RR L	Lat: 43.060622820	7 Long: -7	78.0520077423	Datum: WGS84	
Soil Map Unit Name: Lima silt lo	oam, 0 to 3 percent slopes			NWI classification:		
Are climatic/hydrologic conditions	on the site typical for this time of ye	ear? Yes No	(If no, ex	xplain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstar	nces" present? Ye	es 🟒 No	
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any a	answers in Remarks.)		
SUMMARY OF FINDINGS – At	ttach site map showing sampli	ng point locations, trar	nsects, imp	ortant features, et	ic.	
Hydrophytic Vegetation Present?	Yes No _ <b>✓</b> _					
Hydric Soil Present?	Yes No _ <b>_</b> /_	Is the Sampled Area within	n a Wetland?	Yes _	No⁄_	
Wetland Hydrology Present?	Yes No <b></b> ∠_	If yes, optional Wetland Si	ite ID:			
	cedures here or in a separate report		verage year			
Wetland Hydrology Indicators: Primary Indicators (minimum of c Surface Water (A1) High Water Table (A2)	one is required; check all that apply) Water-Stained Lea Aquatic Fauna (B1		Surface :	ndicators (minimum c Soil Cracks (B6) e Patterns (B10)	of two required)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Redu			or Stressed Plants (D1	)	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		phic Position (D2)		
Iron Deposits (B5) Inundation Visible on Aerial In	Thin Muck Surface			Aquitard (D3)		
Sparsely Vegetated Concave S	· · · · · · · · · · · · · · · · · · ·	Remarks)		oographic Relief (D4) itral Test (D5)		
Field Observations:	difface (Bb)			itrui rest (DS)		
Surface Water Present?	Yes No <u></u> ✓ Depth	(inches):				
Water Table Present?		(inches):	- Wetland Hv	drology Present?	Yes No	
Saturation Present?		· · · · · · · · · · · · · · · · · · ·	- Wedana riy	drology r resent:	103100	
	Yes No Depth	(inches):	_			
(includes capillary fringe)					<u> </u>	
Describe Recorded Data (stream)	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:		<u> </u>				

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species		(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
5.				Prevalence Index worksheet:		
6			_	- Total % Cover of:	Multiply	Bv.
7				- OBL species 0	x 1 =	0
	0	= Total Cov	/er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
•				- FACU species 155	x 4 =	620
2.				- UPL species 0	x 5 =	0
3.				- Column Totals 155	(A)	620 (B)
4.				Prevalence Index = B/A =	4	
5.				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	า
7		= Total Cov		2 - Dominance Test is > 50%		
Harb Stratum (Plat size) Eft )		_ 10tal C0\	/ei	3 - Prevalence Index is $\leq 3.0^{1}$		
Herb Stratum (Plot size: _5 ft)  1. Dactylis glomerata	85	Yes	FACU	4 - Morphological Adaptation		supporting
Medicago lupulina	70	Yes	FACU	data in Remarks or on a separate s		
3.		103	17100	Problematic Hydrophytic Veg		
4.				Indicators of hydric soil and wetla	,	gy must be
5.				present, unless disturbed or problem.	emauc	
6.				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7.				breast height (DBH), regardless of		ulailletei at
8.				Sapling/shrub – Woody plants less		DBH and
9.				greater than or equal to 3.28 ft (1 r		
10.				Herb – All herbaceous (non-woody	) plants, re	gardless of
11.				size, and woody plants less than 3.	28 ft tall.	
12.				Woody vines – All woody vines gre	ater than 3	3.28 ft in
	155	= Total Cov	/er	height.		
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Present?	Yes !	Vo <u> </u>
1.						
2.						
3.						
4.						
	0	= Total Cov	/er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					
The man (manage process manages manages)						

Depth (inches)			-			ndicator	or confirm the al	osence of indicators.)	
	Matrix	0/	Redox			12	Tavet	Domonius .	
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textu		—
0 - 10	10YR 3/3	100	10VD F /0	10			Gravelly		—
10 - 14	10YR 3/3 10YR 5/2	70	10YR 5/8	10	C	M	Silt Lo	diffi	—
10 - 14	1018 5/2					-			—
	•		_						
				. —					
				. —					
				. —					
				. —					
				. —					
				. —					
				<del></del>		. <del></del> .			
	Concentration, D =	Depletio	on, RM = Reduced	ı Matı	ıx, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.	
Hydric Soil						o) (: = =		Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histoso							R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2) istic (A3)		Thin Dark Su Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Gleye	-		(LKK K, L	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L)	
	d Below Dark Surf	ace (A11						Polyvalue Below Surface (S8) (LRR K, L)	
	ark Surface (A12)		Depleted Da	rk Suı	face (F7)			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)	
Sandy N	Mucky Mineral (S1)		Redox Depre	ession	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)	
Sandy 0	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy F	Redox (S5)							Red Parent Material (F21)	
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)	
Dark Su	ırface (S7) <b>(LRR R, N</b>	MLRA 14	9B)					Other (Explain in Remarks)	
3Indicators	of hydrophytic veg	etation	and wetland hvd	rology	/ must be	nresen	t. unless disturbe		
	Layer (if observed)				,		<u>,,</u>		
	Type:		Rocks			Hydric	Soil Present?	Yes No _ <b>✓</b> _	
	Depth (inches):		14	-					

### Vegetation Photos



#### Soil Photos



Photo of Sample Plot



Project/Site: Excelsior	City/County: Byre	on, Genesee County	Sampling Date: 2019-May-29			
Applicant/Owner: NextEra		State: Nev	v York Sampling Point: W-JDV-07; UPL	1		
Investigator(s): Jeff Vandeveer	, IBP	Section, Township,	Range:	_		
Landform (hillslope, terrace, etc.)	): Agricultural Field	Local relief (concave, conv	ex, none): Flat Slope (	<b>%):</b> 0-1		
Subregion (LRR or MLRA): L	.RR L	Lat: 43.086512	Long: -78.0924163 Datum:	WGS84		
Soil Map Unit Name: Appletor	n silt loam, 0 to 3 percent slopes		NWI classification:			
Are climatic/hydrologic conditior	ns on the site typical for this time of ye	ear? Yes 🔽 No	(If no, explain in Remarks.)			
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology significantly di		al Circumstances" present? Yes 🟒 N	No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
Summary of Findings – A	Attach site map showing sampli	ng point locations, trar	nsects, important features, etc.			
Hydrophytic Vegetation Present	? Yes No <b>_√</b>					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland? Yes No			
		1				
Wetland Hydrology Present?	Yes No _ <b>∠</b>	If yes, optional Wetland Si	te ID:			
Remarks: (Explain alternative pr	ocedures here or in a separate report	t)				
TRC covertype is UPL. Circumsta	ances are not normal due to agricultu	ral activities				
"""						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of two re	equired)		
Surface Water (A1)	Water-Stained Le	aves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizosp	heres on Living Roots (C3)				
			Saturation Visible on Aerial Imagery (0	<b>C9</b> )		
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	<del></del>	ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aquitard (D3)			
Inundation Visible on Aerial		Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Field Observations:	Surface (B8)		FAC-Neutral Test (D5)			
	Vos. No. ( Donth	(inches)				
Surface Water Present?	·	(inches):				
Water Table Present?	Yes No _ <b>_/</b> Depth	(inches):	Wetland Hydrology Present? Yes	No _ <b>_</b> _		
Saturation Present?	Yes No Depth	(inches):				
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if a	available:			
Remarks:						
Kemarks.						

Tree Stratum (Plot size:30 ft)	Absolute	Dominant	t Indicator	Dominance Test worksh	neet:		
1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:	•	0	(A)
2.				Total Number of Domir			(D)
3.				Across All Strata:		2	(B)
4.			-	Percent of Dominant Sp	pecies That	0	(A/B)
5.				Are OBL, FACW, or FAC:			(A/B)
6.				Prevalence Index works	sheet:		
7.				Total % Cover	of:	<u>Multiply</u>	By:
/·		= Total Co		OBL species	0	x 1 =	0
Couling/Church Church use (Diet siege 45 ft )		_ 10tal C0	ver	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1.				- FACU species	15	x 4 =	60
2				– UPL species	20	x 5 =	100
3				Column Totals	35	(A)	160 (B)
4				Prevalence In	dex = B/A =	4.6	
5				Hydrophytic Vegetation	-		·
6				- Land Test for H		logotation	
7				2 - Dominance Tes		egetatioi	ı
	0	= Total Co	ver				
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Ind		(Duantida	
1. Zea mays	20	Yes	UPL	4 - Morphological			supporting
2. Dactylis glomerata	15	Yes	FACU	<ul><li>data in Remarks or on a</li><li>Problematic Hydro</li></ul>			(nlain)
3.				, ,	. , .	•	
4.				<ul><li>Indicators of hydric sol</li><li>present, unless disturbed</li></ul>			gy must be
5.						Hatic	
6.				_ Definitions of Vegetatio			
-				_ Tree - Woody plants 3 i			diameter at
7.				breast height (DBH), reg			DDIId
8.				Sapling/shrub - Woody greater than or equal to			JBH and
9				_ 1 -			gardlass of
10				Herb – All herbaceous ( size, and woody plants			gardiess of
11				- Woody vines – All wood			20 ft in
12				height.	iy viries great	ei tilali 3	.20 11 111
	35	= Total Co	ver				
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation	n Present? \	/es N	No <u>~</u>
1				_			
2.							
3.		· · · · · · · · · · · · · · · · · · ·					
4.				_			
	0	= Total Co	ver	_			
		-					
Remarks: (Include photo numbers here or on a separat	e sheet.)						
No positive indication of hydrophytic vegetation was ol	oserved (≥	:50% of dor	minant speci	ies indexed as FAC- or dri	er).		

	Paday	Features	ndicator or committee	absence of indicators	s.)
Depth Matrix			Loc <sup>2</sup> To	vturo	Pomarke
(inches) Color (moist) 9 0 - 15 10YR 5/3 10		% Type¹		ilay Loam	Remarks
¹Type: C = Concentration, D = Depl	etion, RM = Reduced	Matrix, MS = I	Masked Sand Grains. <sup>2</sup>	<sup>2</sup> Location: PL = Pore L	
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)	Thin Dark Sur Loamy Mucky	face (S9) <b>(LRR</b> ⁄ Mineral (F1) <b>(</b>	8) (LRR R, MLRA 149B) R, MLRA 149B) (LRR K, L)	2 cm Muck (A Coast Prairie l	oblematic Hydric Soils <sup>3</sup> : 10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Leat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)     Stratified Layers (A5)     Depleted Below Dark Surface (A12)     Thick Dark Surface (A12)     Sandy Mucky Mineral (S1)     Sandy Gleyed Matrix (S4)	Loamy Gleyed Depleted Mat A11) Redox Dark S Depleted Dar Redox Depre	rix (F3) urface (F6) k Surface (F7)		Dark Surface ( Polyvalue Belo Thin Dark Sur Iron-Mangane Piedmont Floo	(S7) (LRR K, L) ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA	149B)			Red Parent M	Dark Surface (TF12)
<sup>3</sup> Indicators of hydrophytic vegetati	on and wetland hydr	ology must be	present, unless disturb	oed or problematic.	
Restrictive Layer (if observed):					
Type:	None		Hydric Soil Present?	·	Yes No/_
Remarks:					
No positive indication of hydric soi	ls was observed.				









Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-03				
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-11; PFO-1				
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:				
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, conv	ex, none):_	Flat	Slope (%): 0-1		
Subregion (LRR or MLRA):	RR L	Lat: 43.074067141	9 Long:	-78.0683164951	Datum: WGS84		
Soil Map Unit Name: Wayland	silt loam	- · ·		NWI classification	n: PFO1C		
Are climatic/hydrologic condition:	s on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no,	explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumst	ances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any	y answers in Remarks	.)		
SUMMARY OF FINDINGS - A	attach site map showing sampli	ng point locations, trar	nsects, im	portant features,	etc.		
Hydrophytic Vegetation Present?	? Yes No						
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland	d? Yes	No		
_		<b>†</b>					
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite iD:		JB-11		
Remarks: (Explain alternative pro	ocedures here or in a separate report	)					
TRC covertype is PFO. Wetter tha	an average year						
HYDROLOGY							
Г							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all that apply)		-	Indicators (minimum	of two required)		
Surface Water (A1)	<u> ✓</u> Water-Stained Lea			e Soil Cracks (B6)			
✓ High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)				
✓ Saturation (A3)	Marl Deposits (B1		Moss Hill Ellies (B10) Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide	neres on Living Roots (C3)	C C L D (CO)				
Sediment Deposits (B2)	Oxidized Kriizospi	ieres on Living Roots (C3)		tion Visible on Aerial I	magery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)		d or Stressed Plants (l			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		orphic Position (D2)	,		
Iron Deposits (B5)	Thin Muck Surface			v Aquitard (D3)			
Inundation Visible on Aerial I	magery (B7) Other (Explain in F	Remarks)		opographic Relief (D4	)		
Sparsely Vegetated Concave :	Surface (B8)		∕ FAC-Ne	eutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No _ <b>_/</b> Depth	(inches):					
Water Table Present?	Yes No Depth	(inches): 8	Wetland H	lydrology Present?	Yes _ <b>∠</b> _ No		
Saturation Present?	Yes _ 🗸 No Depth	(inches): 0	-				
(includes capillary fringe)		· ·	-				
· , , , , , , , , , , , , , , , , , , ,	n gauge, monitoring well, aerial photo	s provious inspections) if	available:				
Describe Recorded Data (stream	gauge, monitoring well, aeriai photo.	s, previous irispections), ir a	avallable.				
Remarks:							

· · · · · · · · · · · · · · · · · · ·				Daminanas Tast wankshaati		
Tree Stratum (Plot size: 30 ft )		Dominant Species?		Dominance Test worksheet:  Number of Dominant Species That		
		<u> </u>	Status	Are OBL, FACW, or FAC:	5	(A)
1. Salix nigra	35	Yes	OBL	Total Number of Dominant Species		
2. Fraxinus pennsylvanica	25	Yes	FACW	Across All Strata:	5	(B)
3. <u>Acer saccharinum</u>	12	<u>No</u>	FACW	Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply I	Bv:
7				OBL species 50	x 1 =	50
	72	= Total Cov	er	FACW species 102	x 2 =	204
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species 90	x3=	270
1. Fraxinus pennsylvanica	10	Yes	FACW	FACU species 0	x 4 =	0
2.				UPL species 0	_	0
3.				· —	x 5 =	
4.				Column Totals 242	(A) _	524 (B)
5.				Prevalence Index = B/A =	2.2	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	/egetation	
··· =	10	= Total Cov	or	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		-	-1	$\checkmark$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
1. Persicaria virginiana	60	Yes	FAC	4 - Morphological Adaptations		supporting
Lysimachia nummularia	50	Yes	FACW	data in Remarks or on a separate sh		
3. Toxicodendron radicans	30			Problematic Hydrophytic Vege		•
-		No No	FAC	<sup>1</sup> Indicators of hydric soil and wetlan		gy must be
4. Cicuta maculata	15	No No	OBL	present, unless disturbed or proble	matic	
5. Impatiens capensis	5	No	FACW	Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20 ft :
12				Woody vines – All woody vines grea	ter than 3	28 IL IN
	160	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	Yes <b>∠</b> _ N	0
1						
2.						
3.						
4.						
	0	= Total Cov	er	•		
Described the shade as he have been been as a second	11					
Remarks: (Include photo numbers here or on a separat	e sneet.)					

	cription: (Describe	to the de	-			indicato	r or confirm the ab	osence o	f indicators.)
Depth	Matrix		Redox			12	T		Danasadas
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 18	10YR 3/1	100					Silt Loam		
				_					-
				_				<del></del> -	
		· —		_					
		· <del></del> ·		_					
		· —— ·							
	Concentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: l	PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicate	ors for Problematic Hydric Soils³:
Histoso			Polyvalue Be	low S	Surface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cr	m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic E	oipedon (A2)		Thin Dark Su	rface	(S9) <b>(LRF</b>	R, MLR	A 149B)		ist Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K,	L)		m Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye						k Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma						value Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A11)							n Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)			n-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				dmont Floodplain Soils (F19) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)								sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy F	Redox (S5)								Parent Material (F21)
Strippe	d Matrix (S6)								y Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	1LRA 149	9B)						er (Explain in Remarks)
	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	nt, unless disturbe	d or prob	olematic.
Restrictive	Layer (if observed):								
	Type:		None	_		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
Soils were a	assumed to be hvd	ric due t	o the presence o	f inuı	ndation.	FACW ar	nd OBL vegetation	species.	and a definitive wetland boundary.
	,				,				,

Vegetation Photos



Soil Photos





Photo of Sample Plot



Applicant/Owner: NextEra			on, Genesee		Date: 2019-June-05		
the contract of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of th			State: NY	Sampling Po	int: W-JJB-18; UPL-1		
Investigator(s): Jake Brillo, Nick	DeJohn		Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Hillslope		Local relief (concave, conv	/ex, none): Flat	Slope (%): 0-1		
Subregion (LRR or MLRA): LR	RR L		Lat: 43.063019835	4 Long: -78.100844	Datum: WGS84		
Soil Map Unit Name: Ovid silt lo	oam, 3 to 8 percer	nt slopes		NWI cla	assification:		
Are climatic/hydrologic conditions	on the site typica	al for this time of ye	ear? Yes No	(If no, explain in R	emarks.)		
Are Vegetation, Soil,	or Hydrology _	significantly di	sturbed? Are "Norm	al Circumstances" pres	ent? Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology _	naturally prob	lematic? (If needed,	explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – At	tach site map	showing sampli	ng point locations, tra	nsects, important fe	atures, etc.		
Hydrophytic Vegetation Present?	Vas	No <b>/</b> _					
Hydric Soil Present?		No	Is the Sampled Area with	in a Watland?	Voc. No. /		
			Is the Sampled Area with		Yes No <u>_</u> ✓		
Wetland Hydrology Present?	Yes _	No <b>∠</b> _	If yes, optional Wetland S	ite ID:			
Remarks: (Explain alternative pro-	cedures here or i	n a separate report	t)				
TRC covertype is UPL. Wetter than	n average vear						
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of c	one is required; ch	neck all that apply)		Secondary Indicators (	minimum of two required)		
Surface Water (A1)		_ Water-Stained Le	aves (B9)	Surface Soil Cracks	(B6)		
High Water Table (A2)	_	_ Aquatic Fauna (B´	13)	Drainage Patterns			
Saturation (A3)		_ Marl Deposits (B1	5)	Moss Trim Lines (B16)			
Water Marks (B1)		_ Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		_ Oxidized Rhizosp	heres on Living Roots (C3)	Crayfish Burrows (C8)			
				Saturation Visible o			
Drift Deposits (B3)		_ Presence of Redu		Stunted or Stresse			
Algal Mat or Crust (B4)		_	ction in Tilled Soils (C6)	Geomorphic Positi			
Iron Deposits (B5)		_ Thin Muck Surfac	• •	Shallow Aquitard (I	•		
Inundation Visible on Aerial In		_ Other (Explain in	Remarks)	Microtopographic			
Sparsely Vegetated Concave S	urface (B8)			FAC-Neutral Test ([	)5)		
Field Observations:	W		Considerable				
Surface Water Present?	Yes No _	•	(inches):	-			
Water Table Present?	Yes No _	<u>✓</u> Depth	(inches):	Wetland Hydrology Pr	esent? Yes No		
Saturation Present?	Yes No _	<u>✓</u> Depth	(inches):	_			
(includes capillary fringe)							
y IIIIge/	gauge, monitorin	g well, aerial photo	s, previous inspections), if	available:			
	BaaBa,	6, a.ca. p	5, p. c				
Describe Recorded Data (stream							
Describe Recorded Data (stream							
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Describe Recorded Data (stream							
Describe Recorded Data (stream							
Describe Recorded Data (stream							
				- available:			

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S		2	(A)
. Acer saccharum	45	Yes	FACU	Are OBL, FACW, or FAC	:		(A)
2. Tilia americana 3.	20	Yes	FACU	Total Number of Dominant Species Across All Strata:		6	(B)
i.	·			Percent of Dominant S  Are OBL, FACW, or FAC	Percent of Dominant Species That		(A/B)
5				Prevalence Index work			
5				Total % Cover		Multiply	Bv:
7				- OBL species	0	x 1 =	0
	65	_= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	42	x 3 =	126
1. Fraxinus americana	5	Yes	FACU	FACU species	93	x 4 =	372
2				UPL species	0	x 5 =	0
3				Column Totals	135	(A)	498 (B)
4.				-		_	490 (D)
5.					ndex = B/A =	3./	
6.				Hydrophytic Vegetation			
7.	-			1- Rapid Test for I		egetation/	
· ·	5	= Total Cov	er	2 - Dominance Te			
Herb Stratum (Plot size:5 ft)		-	C.	3 - Prevalence Inc			
1. Toxicodendron radicans	35	Yes	FAC	4 - Morphological			supportin
2. Parthenocissus quinquefolia	15	Yes	FACU	data in Remarks or on	•	-	
	8	No	FACU	Problematic Hydr			-
· · · · · · · · · · · · · · · · · · ·		NO	FACU	<sup>1</sup> Indicators of hydric so		,	gy must be
4				present, unless disturb	•	matic	
5	- ——			Definitions of Vegetation			
6				Tree – Woody plants 3			liameter a
7				breast height (DBH), re			
8				Sapling/shrub - Woody			BH and
9				greater than or equal t			
10				Herb – All herbaceous	-		gardless of
11				size, and woody plants			
12.				Woody vines – All woo	dy vines grea	ter than 3.	28 ft in
	58	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation	n Present? `	Yes N	0
1. Vitis riparia	7	Yes	FAC				
2.	<del></del>			•			
				•			
3.				-			
4							
	7	_= Total Cov	er				

Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Thin Dark Surface (S8) (LRR R, MLRA 149B)  Coast P  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  Coast P  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Matrix (F3)  Polyvalu  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Polyvalu  Redox Depressions (F8)  Red Par  Very Sh	cators.)
8 - 14  10YR 5/3  97  10YR 5/8  3  C  M  Silty Clay Loam  "Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.  2Location: PL = Hydric Soil Indicators:  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators F  Indicators	Domonilo
8 - 14	Remarks
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Hydric Soil Indicators:  Histosol (A1)	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Milestic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast PBlack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Milestified Layers (A5) Depleted Matrix (F2) Dark Surface (A11) Polyvalue Depleted Below Dark Surface (A11) Polyvalue Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Marchael (F8) Polyvalue Depleted Matrix (S4) Piedmo Mesic Sandy Gleyed Matrix (S4) Piedmo Mesic Sandy Redox (S5) Red Par Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Present;  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Milestic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast PBlack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Milestified Layers (A5) Depleted Matrix (F2) Dark Surface (A11) Polyvalue Depleted Below Dark Surface (A11) Polyvalue Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Marchael (F8) Polyvalue Depleted Matrix (S4) Piedmo Mesic Sandy Gleyed Matrix (S4) Piedmo Mesic Sandy Redox (S5) Red Par Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Present;  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Milestic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast PBlack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Milestified Layers (A5) Depleted Matrix (F2) Dark Surface (A11) Polyvalue Depleted Below Dark Surface (A11) Polyvalue Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Marchael (F8) Polyvalue Depleted Matrix (S4) Piedmo Mesic Sandy Gleyed Matrix (S4) Piedmo Mesic Sandy Redox (S5) Red Par Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Present;  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Milestic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast PBlack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Milestified Layers (A5) Depleted Matrix (F2) Dark Surface (A11) Polyvalue Depleted Below Dark Surface (A11) Polyvalue Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Marchael (F8) Polyvalue Depleted Matrix (S4) Piedmo Mesic Sandy Gleyed Matrix (S4) Piedmo Mesic Sandy Redox (S5) Red Par Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Present;  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	<u> </u>
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Milestic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast PBlack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Milestified Layers (A5) Depleted Matrix (F2) Dark Surface (A11) Polyvalue Depleted Below Dark Surface (A11) Polyvalue Depleted Dark Surface (F6) Thin Dark Surface (A12) Depleted Dark Surface (F7) Iron-Marchael (F8) Polyvalue Depleted Matrix (S4) Piedmo Mesic Sandy Gleyed Matrix (S4) Piedmo Mesic Sandy Redox (S5) Red Par Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Present;  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Dark Surface (S9) (LRR R, MLRA 149B) Present?  Hydric Soil Present?	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) 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) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Depth (inches): 14	Pore Lining, M = Matrix.
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) — 2 cm Miles (LRR R) (LRR R) (LRR R) — Coast P — Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Miles (LAY) — Loamy Gleyed Matrix (F2) — Dark Surface (A12) — Depleted Matrix (F3) — Polyvalue Depleted Below Dark Surface (A11) — Redox Dark Surface (F6) — Thin Dark Surface (A12) — Depleted Dark Surface (F7) — Iron-March (F8) — Piedmo — Sandy Mucky Mineral (S1) — Redox Depressions (F8) — Piedmo — Sandy Redox (S5) — Stripped Matrix (S6) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B) — Other (Bartistic Layer (if observed):  Type: Rocks — Depth (inches): 14	or Problematic Hydric Soils³:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast P Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mi Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Su Stratified Layers (A5) Depleted Matrix (F3) Polyvalu Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Da Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Ma Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmo Sandy Gleyed Matrix (S4) Mesic S Sandy Redox (S5) Red Par Stripped Matrix (S6) Pork Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed): Type: Rocks Depth (inches): 14	uck (A10) <b>(LRR K, L, MLRA 149B)</b>
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 5 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRR K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (LRK K, L) 6 cm Mineral (F1) (L	
	rairie Redox (A16) <b>(LRR K, L, R)</b> ucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratified Layers (A5) Depleted Matrix (F3) Polyvalu Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thirk Dark Surface (A12) Depleted Dark Surface (F7) Iron-Ma Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmo Sandy Gleyed Matrix (S4) Mesic S Sandy Redox (S5) Red Par Stripped Matrix (S6) Very Sh Dark Surface (S7) (LRR R, MLRA 149B) Other (B	rface (S7) <b>(LRR K, L)</b>
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Da Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  **Jundicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem  **Restrictive Layer (if observed): Type: Rocks Depth (inches): 14  **Thin Da Thin Da Thin Da Thin Da Iron-Ma Piedmo Mesic S Red Par Very Sh Other (B	e Below Surface (S8) (LRR K, L)
Inlick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Ma Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmo Mesic S Mesic S Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Very Sh Very Sh Other (B Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed): Rocks Hydric Soil Present? Depth (inches): 14	rk Surface (S9) <b>(LRR K, L)</b>
	nganese Masses (F12) (LRR K, L, R)
— Sandy Gleyed Matrix (S4) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem  Restrictive Layer (if observed):  Type:  Depth (inches):  14  Mesic S Red Par Very Sh — Very Sh — Very Sh — Very Sh — Very Sh — Hydric Soil Present?	nt Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem  Restrictive Layer (if observed):  Type: Rocks Hydric Soil Present?  Depth (inches): 14	podic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6) Very Sh Other (E 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed): Type: Rocks Hydric Soil Present? Depth (inches): 14	ent Material (F21)
Dark Surface (S7) (LRR R, MLRA 149B) Other (E 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer (if observed):  Type: Rocks Hydric Soil Present?	allow Dark Surface (TF12)
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem  Restrictive Layer (if observed):  Type:  Depth (inches):  14  Hydric Soil Present?	xplain in Remarks)
Restrictive Layer (if observed):  Type:  Depth (inches):  Rocks Hydric Soil Present?	
Depth (inches): 14	auc.
<del></del>	Yes No/_
<del></del>	

Vegetation Photos



Soil Photos



Photo of Sample Plot



Project/Site: Excelsior	City/County: By	ron, Genesee County	Sampling Da	ate: 2019-May-28
Applicant/Owner: NextEra		State: Nev	v York Sampling Poin	nt: W-JDV-02; PEM-1
Investigator(s): Jeff Vandeveer	, IBP	Section, Township,	Range:	
Landform (hillslope, terrace, etc.	.): Flood Plain	Local relief (concave, conv	ex, none): Concave	Slope (%): 1-10
Subregion (LRR or MLRA):	LRR L	Lat: 43.0805102	Long: -78.0730181	Datum: WGS84
Soil Map Unit Name: Appleton	n silt loam, 0 to 3 percent slopes			sification:
Are climatic/hydrologic condition	ns on the site typical for this time of y	rear? Yes <u>√</u> No	(If no, explain in Re	marks.)
Are Vegetation, Soil,	or Hydrology significantly o	listurbed? Are "Norm	al Circumstances" preser	nt? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally prol	blematic? (If needed,	explain any answers in R	lemarks.)
SUMMARY OF FINDINGS - A	Attach site map showing sampl	ling point locations, trar	nsects, important fea	tures, etc.
Hydrophytic Vegetation Present	t? Yes _ 🗸 No			
Hydric Soil Present?	Yes _ ✓ No	Is the Sampled Area withi	n a Wetland?	Yes No
		·		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	te ID:	W-JDV-02
Remarks: (Explain alternative pr	rocedures here or in a separate repoi	rt)		
TRC covertype is PEM.				
3.				
HYDROLOGY				
Watland Lludralog Indicators				
Wetland Hydrology Indicators:	formation and the sale all the sale and the	•	C	!!
Primary indicators (minimum of	f one is required; check all that apply		-	inimum of two required)
Surface Water (A1)	Water-Stained Le		Surface Soil Cracks (E	•
High Water Table (A2)	Aquatic Fauna (E		Drainage Patterns (B Moss Trim Lines (B16	
✓ Saturation (A3)	Marl Deposits (B		Dry-Season Water Ta	
Water Marks (B1)	Hydrogen Sulfide	e Odor (C1)		
Sediment Deposits (B2)	Oxidized Rhizosp	oheres on Living Roots (C3)	✓ Saturation Visible on	Aerial Imagery (C9)
Drift Danasits (P2)	Processes of Rad	used Iron (CA)		
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Red	uced from (C4) uction in Tilled Soils (C6)	<ul><li>Stunted or Stressed</li><li>Geomorphic Position</li></ul>	
Iron Deposits (B5)	Thin Muck Surfa		Shallow Aquitard (D3	
Inundation Visible on Aerial		` '	Microtopographic Re	
Sparsely Vegetated Concave	3 , ,	Remarks)	✓ FAC-Neutral Test (D5	
Field Observations:	Surface (Bo)		FAC-Neutral Test (D3	)
Surface Water Present?	Yes No <u></u> ✓ Deptl	h (inchas):		
		h (inches):		
Water Table Present?	Yes No/ Dept	h (inches):	Wetland Hydrology Pres	sent? Yes No
Saturation Present?	Yes _ V No Dept	h (inches): 5		
(includes capillary fringe)				
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	os, previous inspections), if a	available:	<u> </u>
·		,		
Remarks:				
1				

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
2.				Total Number of Dominant Species	3	(D)
3.				Across All Strata:		(B)
4.				Percent of Dominant Species That	100	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	-
		= Total Cov	er	- OBL species 78	x 1 =	78
Sapling/Shrub Stratum (Plot size: 15 ft )		-	Ci	FACW species 0	x 2 =	0
1. Salix nigra	8	Yes	OBL	FAC species 0	x 3 =	0
2.		103		FACU species 15	x 4 =	60
3.				UPL species 0	x 5 =	0
				Column Totals 93	(A)	138 (B)
4.				Prevalence Index = B/A =	1.5	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic \	/egetation	
7				2 - Dominance Test is >50%	J	
	8	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\le 3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptations	¹ (Provide s	supporting
Symphyotrichum puniceum	45	Yes	OBL	data in Remarks or on a separate sh		
2. <i>Typha angustifolia</i>	25	Yes	OBL	Problematic Hydrophytic Vege	tation¹ (Ex	plain)
3. <i>Alliaria petiolata</i>	15	No	FACU	Indicators of hydric soil and wetlan	d hydrolog	gy must be
4				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6	_			Tree – Woody plants 3 in. (7.6 cm) o	r more in c	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t	han 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 m	) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	8 ft tall.	
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	85	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.				-		
3.				-		
4.				-		
<u> </u>		= Total Cov	····	-		
		_ TOTAL COV	CI			
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

	ription: (Describe t	o the d	-			indicato	r or confirm the a	absence o	of indicators.)
Depth _	Matrix		Redox						
(inches)	Color (moist)	<u>%</u>	Color (moist)	- —	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 14	2.5Y 2.5/1	97	7.5YR 4/3	3			Silty Clay	<u>'                                      </u>	
				_					
		_		_					
		-							
ļ									
		-		- —					
			D14 D L				<u> </u>		
		Depleti	on, RM = Reduced	d Mat	rıx, MS =	Masked	Sand Grains. <sup>2</sup> L		PL = Pore Lining, M = Matrix.
Hydric Soil I								Indicat	tors for Problematic Hydric Soils³:
Histosol			Polyvalue Be		-		•	2 c	m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	ipedon (A2)		Thin Dark Su					Co.	ast Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Muck	•		(LRR K,	L)	5 c	m Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye					Da	rk Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	co (A1	Depleted Ma					Po	lyvalue Below Surface (S8) (LRR K, L)
	irk Surface (A12)	ce (A I	Depleted Da			`		Thi	in Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre			,		Iro	n-Manganese Masses (F12) (LRR K, L, R)
	leyed Matrix (S4)		Redox Depre	.33101	13 (10)			Pie	dmont Floodplain Soils (F19) (MLRA 149B)
-	-							Me	esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	edox (S5)							Re	d Parent Material (F21)
	Matrix (S6)	II DA 17	OD)					Vei	ry Shallow Dark Surface (TF12)
Dark Sui	rface (S7) <b>(LRR R, M</b>	ILKA 14	98)					Otl	her (Explain in Remarks)
3Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or pro	blematic.
-	ayer (if observed):				-		•		
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):			-					
Remarks:	Depart (interies).								
Keillaiks.									

Vegetation Photos



Photo of Sample Plot







Project/Site: Excelsior		<b>City/County:</b> Byron, G	enesee	Samplii	ng Date: 2019-June-04
Applicant/Owner: NextEra			State: NY	Sampling	Point: W-JJB-15; PSS-1
Investigator(s): Jake Brillo, Nic	k DeJohn		Section, Township,	Range:	
Landform (hillslope, terrace, etc.	.): Depression	Loca	al relief (concave, conv	ex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA):	LRR L	<u> </u>	Lat: 43.054091138	8 <b>Long:</b> -78.0482	846685 <b>Datum:</b> WGS84
Soil Map Unit Name: Ontario	loam, 3 to 8 percent s	slopes		NW	l classification:
Are climatic/hydrologic condition	ns on the site typical f	or this time of year?	Yes <u></u> ✓ No	(If no, explain	in Remarks.)
Are Vegetation, Soil,	or Hydrology	significantly disturb	ed? Are "Norma	al Circumstances" pr	resent? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology	naturally problema	tic? (If needed,	explain any answers	in Remarks.)
SUMMARY OF FINDINGS -	Attach site man sh	nowing sampling p	oint locations, tran	sects, important	features, etc.
Hydrophytic Vegetation Presen		No			
Hydric Soil Present?	Yes	_ No <u></u> ✓ Is tl	ne Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes	_ No   If ye	es, optional Wetland Si	te ID:	W-JJB-15
Remarks: (Explain alternative p					
remarks. (Explain alternative p	occurres here or in a	a separate report,			
TRC covertype is PSS.					
HYDROLOGY					
TIDROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum o	f one is required; cher	ck all that apply)		Secondary Indicator	rs (minimum of two required)
•	•		(DO)	Surface Soil Cra	•
✓ Surface Water (A1)		Vater-Stained Leaves	(89)	Drainage Patter	
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines	
✓ Saturation (A3)		Marl Deposits (B15)	~ (C1)	Dry-Season Wat	
Water Marks (B1)	<u>-</u> ✓ ⊓	lydrogen Sulfide Odo	s on Living Roots (C3)		
Sediment Deposits (B2)		oxidized Knizosphere:	s on Living Roots (C3)	Saturation Visib	le on Aerial Imagery (C9)
Drift Deposits (B3)	n	Presence of Reduced I	ron (C4)	Stunted or Stres	
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic Pos	
•					
Iron Deposits (B5)		hin Muck Surface (C7	•	Shallow Aquitar	
Inundation Visible on Aerial	J ,	Other (Explain in Rema	arks)	Microtopograph	
Sparsely Vegetated Concave	: Surface (B8)			<u>✓</u> FAC-Neutral Tes	t (D5)
Field Observations:					
Surface Water Present?	Yes 🟒 No	_ Depth (incl	nes): 3		
Water Table Present?	Yes No	_ Depth (incl	nes): 0	Wetland Hydrology	Present? Yes No
Saturation Present?	Yes <u></u> ✓ No	_ Depth (incl	nes): 0		
(includes capillary fringe)					
					·
Describe Recorded Data (stream	n gauge, monitoring v	well, aerial photos, pr	evious inspections), if a	available:	
Remarks:					-
remarks.					
I					

	Absoluto	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species That		
1. Salix nigra	25	Yes	OBL	Are OBL, FACW, or FAC:	4	(A)
2.		163	OBL	Total Number of Dominant Species		
3.				Across All Strata:	4	(B)
4.				Percent of Dominant Species That	100	(A/B)
				Are OBL, FACW, or FAC:		(/// b)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply I	<u>Ву:</u>
·	25	= Total Cov	or	OBL species 75	x 1 =	75
Capling/Chrub Stratum (Blot size) 15 ft		_ 10tal Cov	er	FACW species 45	x 2 =	90
Sapling/Shrub Stratum (Plot size:15 ft)  1. Salix nigra	F0	Voc	OBL	FAC species 0	x 3 =	0
	50	Yes	OBL	FACU species 0	x 4 =	0
2. Cornus amomum	40	Yes	FACW	UPL species 0	x 5 =	0
3.				Column Totals 120	(A)	165 (B)
4				Prevalence Index = B/A =	1.4	
5				Hydrophytic Vegetation Indicators:		
6				✓ 1- Rapid Test for Hydrophytic		
7				2 - Dominance Test is >50%	.0	
	90	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\le 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s¹ (Provide s	supporting
1. Cornus amomum	5	Yes	FACW	data in Remarks or on a separate s		
2				Problematic Hydrophytic Veg		plain)
3				¹Indicators of hydric soil and wetla	nd hydrolog	gy must be
4				present, unless disturbed or proble	ematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in d	liameter at
7				breast height (DBH), regardless of	neight.	
8.				Sapling/shrub – Woody plants less	than 3 in. D	BH and
9.				greater than or equal to 3.28 ft (1 r	n) tall.	
10.				Herb – All herbaceous (non-woody		ardless of
11.				size, and woody plants less than 3.		
12.				Woody vines – All woody vines gre	ater than 3.	28 ft in
	5	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation Present?	Yes 🟒 N	0
1.						
2.				•		
3.				.		
4.				•		
···-	0	= Total Cov	er	•		
Remarks: (Include photo numbers here or on a separat	e sheet.)					

Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix.	Depth	Matrix		Redox	(Feat	ures			bsence of indicators.)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?	(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A12)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Plodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Depth (inches):  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None									
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A12)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Plodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed):  Type:  Depth (inches):  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None					- —			_	
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					- —			_	
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					- —				
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?									
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					_				
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					- —				
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					- —				
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  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) (LRR K, L)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Mesic Spodic (TA6) (MuRA 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No ✓  None  Pledmant Floodplain Soils (F12)  None  None  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  Yes No ✓  No Mack (A10) (LRR K, L, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  — Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Hydric Soil Present?  YesNo ✓  No _✓  No _✓  Pedmant Floodplain Soils (HR K, L)  Hydric Soil Present?					- —				
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Matrix (F2) Depleted Below Dark Surface (A11)  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) (LRR R, L)  Sardy Surface (S7) (LRR R, L)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MlRA 144A, 145, 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Hydric Soil Present?  Yes No	 ¹Type: C = C	Concentration, D = D	epletio	on, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Histic Epipedon (A2)	Hydric Soil	Indicators:	•						
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Selow Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Pelyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Peldown From Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No Z  Depth (inches):  Remarks:		• •				-			2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Think Dark Surface (A12) Depleted Dark Surface (F7) Think Dark Surface (S9) (LRR K, L)  Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F12) (LRR K, L, R)  Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F12) (LRR K, L49B)  Sandy Redox (S5) Red Parent Material (F21) Perspective (S7) (LRR R, MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B) Present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: None Pepth (inches):  Remarks:		•							
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Third Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No Z  Depth (inches):  Remarks:		` '					(LINITY)	-,	
Depleted Below Dark Surface (A11) _ Redox Dark Surface (F6)	Stratifie	d Layers (A5)		Depleted Ma	atrix (	F3)			
			e (A11						
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  Remarks:							)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Redox (S5) Mesic Spodic (IA6) (MLRA 144A, 145, 149B) Mesic Spodic (IA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks)	,			кейох верг	C33101	13 (1 0)			
Stripped Matrix (56) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Stripped Matrix (56) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Stripped Matrix (57) (LRR R, MLRA 149B) Other (Explain in Remarks) Stripped Matrix (58) Stripped Matrix (57) (LRR R, MLRA 149B) Other (Explain in Remarks) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58) Stripped Matrix (58)	-								•
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  Remarks:	Stripped	d Matrix (S6)							<del></del>
Restrictive Layer (if observed):  Type: Depth (inches):  Remarks:    None	Dark Su	rface (S7) <b>(LRR R, M</b> l	_RA 14	9B)					
Type: None Hydric Soil Present? Yes No V Depth (inches):  Remarks:	<sup>3</sup> Indicators	of hydrophytic vege	tation	and wetland hyd	Irolog	y must b	e presei	nt, unless disturbe	d or problematic.
Depth (inches):  Remarks:	Restrictive I	_ayer (if observed):							
Remarks:		• •		None	_		Hydric	Soil Present?	Yes No/_
		Depth (inches):	_						
Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.	Remarks:								
Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.									
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Soils were assumed to be hydric due to the presence of inundation, FACW and OBL vegetation species, and a definitive wetland boundary.									
	Soils were a	assumed to be hydri	c due	to the presence (	of inu	ndation.	FACW a	nd OBL vegetation	species, and a definitive wetland boundary.
	Jons Were	issumed to be rigari	caac	to the presence	01 1110	ridation,	171011 0	id OBE vegetation	species, and a definitive wedaria Boardary.

Hydrology Photos



**Vegetation Photos** 



Project/Site: Excelsior	City/County: Byro	n, Genesee County	Sampling Date	: 2019-May-28
Applicant/Owner: NextEra		State: New Yo	rk Sampling Point:	W-JDV-01; PFO-1
Investigator(s): Jeff Vandeveer, IB	3P	Section, Township, Rar	nge:	
Landform (hillslope, terrace, etc.):	Plain	Local relief (concave, convex,	none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA): LRR		Lat: 43.0849531	Long: -78.074656	Datum: WGS84
Soil Map Unit Name: Niagara silt			NWI classifi	-
	on the site typical for this time of ye		(If no, explain in Rema	arks.)
Are Vegetation, Soil,	or Hydrology significantly dis		ircumstances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed, exp	lain any answers in Rem	narks.)
Summary of Findings – Att	ach site map showing samplir	ng point locations, transe	cts, important featu	res, etc.
Hydrophytic Vegetation Present?	Yes <u> </u>			
Hydric Soil Present?	Yes No	Is the Sampled Area within a	Wetland?	Yes/_ No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site II	D·	W-JDV-01
	· · · · · · · · · · · · · · · · · · ·		<u>.                                    </u>	
Remarks: (Explain alternative proce	edures here or in a separate report;			
TRC covertype is PFO.				
HYDROLOGY				
IIDKOLOGI				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all that apply)	<u>Sec</u>	condary Indicators (mini	mum of two required)
Surface Water (A1)	✓ Water-Stained Lea	ives (B9) —	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10)	
✓ Saturation (A3)	Marl Deposits (B1	J)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide	Odor (CT)	Dry-Season Water Table	e (C2)
Sediment Deposits (B2)	Oxidized Rhizosph	ici es on Living Roots (es)	Crayfish Burrows (C8)	
			Saturation Visible on Ae	3 ,
Drift Deposits (B3)	Presence of Reduc	• • • • • • • • • • • • • • • • • • • •	Stunted or Stressed Pla	
✓ Algal Mat or Crust (B4)			Geomorphic Position (D	02)
Iron Deposits (B5) Inundation Visible on Aerial Ima	Thin Muck Surface agery (B7)     Other (Explain in F		Shallow Aquitard (D3)	F (D.4)
✓ Sparsely Vegetated Concave Su	· · · · · · · · · · · · · · · · · · ·		Microtopographic Relief FAC-Neutral Test (D5)	(04)
Field Observations:	Trace (DO)	<u>~</u>	TAC-Neutral Test (D3)	
Surface Water Present?	Yes No Depth	(inches):		
			etland Hydrology Presen	P Vos 4 No
Water Table Present?		· —	etiano Hydrology Presen	t? Yes No
Saturation Present?	Yes _ No Depth	(inches): 2		
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aerial photos	s, previous inspections), if avail	lable:	
Remarks:				
A positive indication of wotland by	drology was observed (primary and	secondary indicators were as	ecent)	
A positive indication of wetland ny	drology was observed (primary and	secondary indicators were pro	esent).	

ree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	3	(A)
. Acer rubrum	40	Yes	FAC	Are OBL, FACW, or FAC:		
. Ulmus americana	30	Yes	FACW	Total Number of Dominant Species	3	(B)
. Carya ovata	15	No	FACU	Across All Strata:		
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
i				Prevalence Index worksheet:		
				Total % Cover of:	Multiply E	Bv:
·				OBL species 15	x 1 =	15
	85	= Total Cov	er	FACW species 33	x 2 =	66
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 45	x 3 =	135
·				FACU species 15	x 4 =	60
				UPL species 0	x 5 =	0
·				Column Totals 108	(A)	276 (B)
·				Prevalence Index = B/A =	_	270 (b)
·						
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	vegetation	
	0	= Total Cov	er	2 - Dominance Test is >50%		
lerb Stratum (Plot size: <u>5 ft</u> )		=		3 - Prevalence Index is ≤ 3.01	.1 (Duas dala a	
. Glyceria striata	15	Yes	OBL	4 - Morphological Adaptations data in Remarks or on a separate s		upporting
. Dryopteris expansa	5	No	FAC	Problematic Hydrophytic Vego		alain)
. Ranunculaceae	5	No	NI	Indicators of hydric soil and wetlar		
Juncus torreyi	3	No	FACW	present, unless disturbed or proble	, ,	y must be
	-			Definitions of Vegetation Strata:	inacic	
				Tree – Woody plants 3 in. (7.6 cm) c	r more in d	iameter a
	-			breast height (DBH), regardless of h		iairietei a
				Sapling/shrub – Woody plants less		BH and
				greater than or equal to 3.28 ft (1 n		
				Herb – All herbaceous (non-woody)	plants, reg	ardless of
				size, and woody plants less than 3	28 ft tall.	
1				Woody vines – All woody vines grea	iter than 3.2	28 ft in
2	28	= Total Cov	or	height.		
Voody Vine Stratum (Plot size:30 ft)		_ Total Cov	Ci	Hydrophytic Vegetation Present?	Yes No	o
·						
				•		
3.				•		
1. <u> </u>				-		
T	0	= Total Cov	er			

	cription: (Describe	to the d	•			indicato	r or confirm the	absence of inc	licators.)
Depth	Matrix		Redox						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks
0 - 6	10YR 3/1	100		_			Loam		
6 - 16	10YR 6/2	95	10YR 5/3	5			Clay		
				_					
				_					
				_					
				_					
	-			_			-		
				_					_
				_				<del></del> -	
	-			_			-		
				_				<del></del>	
1T C		Davidatio	- DM Dadward			N 4 l	L Court Courter	21+i DI	Daniel India - M. Makata
		Depletio	on, RIVI = Reduced	Mat	rix, ivi5 =	Masked	i Sand Grains.		Pore Lining, M = Matrix.
•	Indicators:				_			Indicators f	or Problematic Hydric Soils³:
Histoso	` '		Polyvalue Be					2 cm M	uck (A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark Su					Coast P	rairie Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Muck			(LRR K,	L)	5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Ma					Dark Su	ırface (S7) <b>(LRR K, L)</b>
	ed Below Dark Surf	- - - - - - - - - - - - - - - - - - -						Polyvalı	ue Below Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)	ace (ATT	Depleted Dark			)		Thin Da	rk Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depre			,			anganese Masses (F12) (LRR K, L, R)
-	Gleyed Matrix (S4)			55.5.	.5 (. 5)				nt Floodplain Soils (F19) <b>(MLRA 149B)</b>
	Redox (S5)								podic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)								ent Material (F21)
	u Mati IX (30) urface (S7) <b>(LRR R, I</b>	MIDA 14	OR)					-	allow Dark Surface (TF12)
Daik 30	111ace (37) (LKK K, 1	VILIVA 14	<b>9</b> 0)					Other (I	Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	and wetland hydi	olog	y must b	e preser	nt, unless distur	bed or problem	natic.
Restrictive	Layer (if observed)	:							
	Type:		None			Hydric	Soil Present?	Yes	<u>∕_</u> No
	Depth (inches):					1			
Remarks:						l .			_
remarks.									

Vegetation Photos



Soil Photos





Photo of Sample Plot







Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling	g Date: 2019-June-04
Applicant/Owner: NextEra		State: NY	Sampling P	oint: W-JJB-14; UPL-1
Investigator(s): _ Jake Brillo, Nick I	DeJohn	Section, Township,	Range:	
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 0-1
Subregion (LRR or MLRA): LR	R L	Lat: 43.055566772	9 <b>Long:</b> -78.045405	54848 <b>Datum:</b> WGS84
Soil Map Unit Name: Lyons silt l	loam, 0 to 3 percent slopes		NWI c	classification:
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no, explain in F	Remarks.)
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumstances" pres	sent? Yes No 🟒
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed,	explain any answers i	n Remarks.)
SUMMARY OF FINDINGS – At	tach site map showing sampli	ng point locations, trai	nsects, important f	eatures, etc.
Hydrophytic Vegetation Present?	Yes No _ <b>_</b> ∕_			
Hydric Soil Present?	Yes No _ <b>_</b> _	Is the Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes No <b></b> ∠	If yes, optional Wetland Si	te ID:	
Remarks: (Explain alternative prod	cedures here or in a separate report	)		
TRC covertype is UPL. Circumstan	ices are not normal due to agricultur	al activities, Wetter than a	verage year	
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	one is required; check all that apply)		Secondary Indicators	(minimum of two required)
Surface Water (A1)	Water-Stained Lea	aves (B9)	Surface Soil Crack	
High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns	
Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (I Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows	
Sediment Deposits (B2)	Oxidized knizospr	neres on Living Roots (C3)	•	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stresse	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Posit	
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Im	nagery (B7) Other (Explain in I	Remarks)	Microtopographic	: Relief (D4)
Sparsely Vegetated Concave S	urface (B8)		FAC-Neutral Test (	(D5)
Field Observations:				
Surface Water Present?	Yes No Depth	(inches):		
Water Table Present?	Yes No 🟒 Depth	(inches):	Wetland Hydrology P	Present? Yes No
Saturation Present?	Yes No 🟒 Depth	(inches):		
(includes capillary fringe)			-	
	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:	
Remarks:				
nemarks.				

	Absolute %	Dominant	Indicator	Dominance Test worksh	eet.		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Sp			
1		эресісэ.	Status	Are OBL, FACW, or FAC:	recies inde	0	(A)
1 2.	· ·			Total Number of Domina	ant Species		
	· <del></del>			Across All Strata:		0	(B)
3.				Percent of Dominant Sp	ecies That		
4.				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index worksl	neet:		
6	· <u> </u>			Total % Cover o	<u>of:</u>	Multiply	By:
7	· <del></del>			<ul><li>OBL species</li></ul>	0	x 1 =	0
		= Total Cover		FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft	_			FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
2				— UPL species	0	x 5 =	0
3.				— Column Totals	0	(A)	0 (B)
4				Prevalence Inc		-	0 (5)
5							<del></del>
6				Hydrophytic Vegetation			
7.				1- Rapid Test for Hy		egetation	
_	0	= Total Cover		2 - Dominance Test			
Herb Stratum (Plot size:5 ft)				3 - Prevalence Inde		<b>(</b> D )	
1				4 - Morphological A			supporting
2.				data in Remarks or on a  Broblematic Hydro			(مندام)
3.				Problematic Hydro			
4.	· <del></del>			<ul> <li>Indicators of hydric soil</li> <li>present, unless disturbe</li> </ul>		-	gy must be
5.				Definitions of Vegetation	-	Hatic	
6.	·			Tree – Woody plants 3 in		more in	diameter at
7.				breast height (DBH), reg			ulameter at
8.	·			Sapling/shrub - Woody			OBH and
-	· ·			greater than or equal to			DDIT GITG
				Herb – All herbaceous (r			pardless of
		<del></del>		size, and woody plants le			5
11.	· <del></del>			Woody vines - All woody			.28 ft in
12				height.			
		= Total Cover		Hydrophytic Vegetation	Present? V	'es N	lo /
Woody Vine Stratum (Plot size: 30 ft				Trydrophydic Vegetation	Tresent.		<u>v</u> _
1.				_			
2				_			
3	· <del></del>			_			
4				_			
	0	= Total Cover					
Remarks: (Include photo numbers here o	or on a separato	e sheet.)					
Active agricultural field							

	cription: (Describe	to the de	•			indicato	r or confirm the	absence of	indicators.)
Depth _	Matrix		Redox						
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textur		Remarks
0 - 12	10YR 3/3	100		_			Silt Loa	ım	
				_					
				_					
				_					
				_					
				_			-		
				_					
				_			-		
				_					
							-		-
<del></del> .				· <del>-</del>		<del></del> .		<del></del>	
		Depletio	n, RM = Reduced	Mat	rıx, MS =	Masked	Sand Grains.		= Pore Lining, M = Matrix.
Hydric Soil								Indicator	rs for Problematic Hydric Soils³:
Histoso	` '		Polyvalue Bel					2 cm	Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Sui					Coas	t Prairie Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Mucky			(LRR K, I	L)	5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark	Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted Mat						value Below Surface (S8) (LRR K, L)
	d Below Dark Surf					_		-	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)			Manganese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				mont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)								c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy F	Redox (S5)								Parent Material (F21)
Stripped	d Matrix (S6)								Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, I</b>	MLRA 149	9B)					-	r (Explain in Remarks)
	61 1 1 1								
	of hydrophytic veg		and wetland hydr	olog	y must b	e preser	nt, unless disturi	bed or probl	ematic.
	Layer (if observed)	):							
	Type:		Rocks			Hydric	Soil Present?		Yes No
	Depth (inches):		12						
Remarks:									

#### **Vegetation Photos**



#### Soil Photos



Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	n, Genesee	Sam	pling Date: 2019	-June-03
Applicant/Owner: NextEra		State: NY	Sampl	ing Point: W-JJB-1	12; UPL-1
Investigator(s): _ Jake Brillo, Nick I	DeJohn	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Flat		Slope (%): 1-10
Subregion (LRR or MLRA): LR	R L	Lat: 43.058367166	7 <b>Long:</b> -78.05	.43682539 <b>[</b>	Datum: WGS84
Soil Map Unit Name: Lima silt lo	oam, 0 to 3 percent slopes		N	NWI classification:	
Are climatic/hydrologic conditions	on the site typical for this time of year	ar? Yes No	_∡ (If no, explai	n in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumstances'	' present? Ye	es 🟒 No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answ	ers in Remarks.)	
SLIMMARY OF FINDINGS _ At	tach site map showing samplir	ng noint locations, tran	nsects imports	ant features et	rc.
Hydrophytic Vegetation Present?	Yes No/		isects, importe		
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes	No⁄_
		ł		.63_	
Wetland Hydrology Present?	Yes No _ <b>_∕</b> cedures here or in a separate report)	If yes, optional Wetland S	ite ID:	<del></del>	
TRC covertype is UPL. Wetter than	າ average year				
HYDROLOGY  Wetland Hydrology Indicators:					
	one is required; check all that apply)		Secondary Indica	ators (minimum o	of two required)
Surface Water (A1)	Water-Stained Lea	aves (R9)	Surface Soil (		<del>, , , , , , , , , , , , , , , , , , , </del>
High Water Table (A2)	Aquatic Fauna (B1		Drainage Pat	terns (B10)	
Saturation (A3)	Marl Deposits (B1		Moss Trim Li	nes (B16)	
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)		Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burn		25051(CO)
Duift Danasita (B2)	Dunnan of Dadu	d lucus (C.4)		isible on Aerial Im	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduc	ction in Tilled Soils (C6)	Stunted or St	tressed Plants (D1 Position (D2)	)
Iron Deposits (B5)	Thin Muck Surface		Shallow Aqui		
Inundation Visible on Aerial Im				aphic Relief (D4)	
Sparsely Vegetated Concave S	urface (B8)		FAC-Neutral		
Field Observations:					
Surface Water Present?	Yes No _ <b>_/</b> Depth (	(inches):			
Water Table Present?	Yes No Depth (	(inches):	Wetland Hydrolo	ogy Present?	Yes No <b>∠</b>
Saturation Present?		(inches):	-		
(includes capillary fringe)			-		
	gauge, monitoring well, aerial photos	s, previous inspections), if a	available:		
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test workshe	eet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Sp	ecies That	0	(4)
1.				Are OBL, FACW, or FAC:		0	(A)
2.				Total Number of Domina	nt Species		
3.				Across All Strata:		1	(B)
4.				Percent of Dominant Spe	ecies That	0	(A /D)
				Are OBL, FACW, or FAC:			(A/B)
5.				Prevalence Index worksh	neet:		
6				Total % Cover of	<u>f:</u>	Multiply	By:
7				OBL species	0	x 1 =	0
	0	_= Total Cove	r	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size:15 ft)				FAC species	0	x 3 =	0
1				FACU species	85	x 4 =	340
2				UPL species	0	x5=	0
3.				Column Totals		-	
4.				<u> </u>	85	(A)	340 (B)
5.				Prevalence Ind	ex = B/A =	4	
6.				Hydrophytic Vegetation I			
7.	_			1- Rapid Test for Hy	drophytic V	egetatior	1
/·		- Total Cause		2 - Dominance Test	is > 50%		
		= Total Cove	1	3 - Prevalence Inde	x is ≤ $3.0^{1}$		
Herb Stratum (Plot size: <u>5 ft</u> )			=	4 - Morphological A	daptations <sup>1</sup>	(Provide	supporting
1. <i>Dactylis glomerata</i>	85	Yes	FACU	data in Remarks or on a	separate sh	eet)	
2				Problematic Hydro	phytic Veget	tation¹ (E	kplain)
3				¹Indicators of hydric soil	and wetland	d hydrolo	gy must be
4				present, unless disturbed			
5.				Definitions of Vegetation	Strata:		
6.				Tree – Woody plants 3 in		more in	diameter at
7.				breast height (DBH), rega			
8.				Sapling/shrub - Woody p		_	OBH and
9.				greater than or equal to			
				Herb – All herbaceous (n			gardless of
		<del></del>		size, and woody plants le			S
11.				Woody vines - All woody			.28 ft in
12				height.	J		
	85	= Total Cove	r	Hydrophytic Vegetation	Drocont2 V	/oc N	.lo. (
Woody Vine Stratum (Plot size: 30 ft )				Trydrophytic vegetation	riesent: 1	cs ı	NO _ <b>Z</b> _
1							
2							
3							
4.							
	0	= Total Cove	r				
Barrandar (tarahada ahada aran barran barran barran a		_					
Remarks: (Include photo numbers here or on a separ	ate sneet.)						

	cription: (Describe	to the de	•			indicato	r or confirm the	e absence	of indicators.)
Depth	Matrix		Redox						
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	_	Remarks
0 - 10	10YR 4/3	100					Loam		
						, <u></u>		<u> </u>	
				_					
				-					
				. —					
				-					
						<del></del> .			
		Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains.		PL = Pore Lining, M = Matrix.
Hydric Soil									tors for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Polyvalue Bel		-			2 0	m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	oipedon (A2)		Thin Dark Su					Co	ast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, I	L)	5 c	m Mucky Peat or Peat (S3) (LRR K, L, R)
, 0	en Sulfide (A4)		Loamy Gleye					Da	rk Surface (S7) <b>(LRR K, L)</b>
	d Layers (A5)		Depleted Mar					Po	lyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf					`		Th	in Dark Surface (S9) (LRR K, L)
	ark Surface (A12) Jucky Mineral (S1)		Depleted Dar Redox Depre			)		Irc	n-Manganese Masses (F12) (LRR K, L, R)
_	-		Redox Depre	55101	15 (F6)			Pie	edmont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)							Me	esic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	Redox (S5)							Re	d Parent Material (F21)
	d Matrix (S6)							Ve	ry Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, I</b>	MLRA 149	9B)					Ot	her (Explain in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	വിവര	v must h	e nreser	nt unless distu	rhed or nro	phlematic
	Layer (if observed)			0.08	<i>y</i> ase s		,	. БСССТ. р. с	
Nesti ictive	-	•	rocks			Hydric	Soil Present?		Vas No /
	Type:					Hyuric	3011 FTeSerit!		Yes No/_
	Depth (inches):		10						
Remarks:									

**Vegetation Photos** 



Soil Photos



Photo of Sample Plot



Project/Site: Excelsior	City/County: Byro	n, Genesee County		Sampling Date: 20	19-June-07
Applicant/Owner: NextEra		State: Nev	w York	Sampling Point: W-JJI	3-22; PSS-1
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none):_	Concave	Slope (%): 0-1
Subregion (LRR or MLRA): LR	R L	Lat: 43.0797663	Long:_	-78.0771329	Datum: WGS84
Soil Map Unit Name: Alden muc	cky silt loam			NWI classification	n:
Are climatic/hydrologic conditions	on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly dis	sturbed? Are "Norm	al Circumst	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any	y answers in Remarks	.)
SUMMARY OF FINDINGS – At	tach site map showing samplir	ng point locations, trai	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present?	Yes _ <b>.</b> ✓_ No				
Hydric Soil Present?	Yes No	Is the Sampled Area withi	in a Wetland	d? Yes	No
Wetland Hydrology Present?	Yes <b>∠</b> _ No	If yes, optional Wetland S	ite ID:	W-I	JB-22
, ,,	<del></del>	3 . 1			,5 ==
Remarks: (Explain alternative prod	cedures here or in a separate report)				
TRC covertype is PSS. wet spring					
HYDROLOGY					
HIDROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of c	one is required; check all that apply)		Secondary	/ Indicators (minimum	of two required)
Surface Water (A1)	Water-Stained Lea	ives (B9)	Surface	e Soil Cracks (B6)	
✓ High Water Table (A2)	Aquatic Fauna (B1		Draina	ge Patterns (B10)	
<u>✓</u> Saturation (A3)	Marl Deposits (B1	5)		Frim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide			ason Water Table (C2)	)
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	-	sh Burrows (C8)	(50)
				tion Visible on Aerial I	0 ,
Drift Deposits (B3)	Presence of Reduc			d or Stressed Plants (	D1)
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)		orphic Position (D2)	
Iron Deposits (B5) Inundation Visible on Aerial Im	Thin Muck Surface			w Aquitard (D3)	١
Sparsely Vegetated Concave S		(emarks)		opographic Relief (D4 eutral Test (D5)	)
Field Observations:	urrace (Bo)		V FAC-INE	sutial lest (D3)	
	Van Na ( Danth	(i.e. ala a.e.).			
Surface Water Present?	·	(inches):	-		N
Water Table Present?	·	(inches): 4	- Wetland H	lydrology Present?	Yes No
Saturation Present?	Yes _✓ No Depth	(inches): 0	-		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if	available:		
Remarks:					

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
1. Quercus bicolor	5	Yes	FACW	Total Number of Dominant Species		
2				Across All Strata:	4	(B)
3				Percent of Dominant Species That	-	
4				Are OBL, FACW, or FAC:	100	(A/B)
5				Prevalence Index worksheet:	-	
6.				Total % Cover of:	Multiply E	Bv:
7				OBL species 40	x 1 =	40
	5	= Total Cove	r	FACW species 120	x 2 =	240
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 5	x3=	15
1. <i>Cornus amomum</i>	70	Yes	FACW	FACU species 0	x 4 =	0
2.				UPL species 0	_	0
3.				· —	x 5 = _	
4.				Column Totals 165	(A) _	295 (B)
5.				Prevalence Index = B/A =	1.8	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
··		= Total Cove	r	2 - Dominance Test is >50%		
Herb Stratum (Plot size: _ 5 ft)		Total Cove	'	$\checkmark$ 3 - Prevalence Index is ≤ 3.01		
1. Cornus amomum	45	Yes	FACW	4 - Morphological Adaptations		supporting
2. Typha latifolia	35	Yes		data in Remarks or on a separate s		
31			OBL	Problematic Hydrophytic Vege		
3. Symplocarpus foetidus	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetlar	-	gy must be
4. Verbena urticifolia	5	No No	FAC	present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) c		liameter at
7				breast height (DBH), regardless of h		
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1 n		
10				Herb – All herbaceous (non-woody)		ardless of
11				size, and woody plants less than 3.2		20 6: :
12				Woody vines – All woody vines grea	iter than 3	28 π in
	90	= Total Cove	r	height.		
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	Yes N	0
1.						
2.						
3.						
4.				•		
		= Total Cove	r	•		
			•			
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					

Profile Des	cription: (Describe	to the o	lepth needed to d	locum	nent the i	indicato	r or confirm the a	bsence of indicators	.)
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	cture	Remarks
0 - 5	10YR 2/1	100					Org mat	tter Loam	
5 - 14	10YR 5/2	70	7.5YR 5/6	30			Silty	y Clay	
			_						
							-		
							-		
							-		
							-		
							-		
							,		
¹Type: C = 0	Concentration, D =	Depleti	on, RM = Reduced	l Matr	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Li	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Prob	olematic Hydric Soils³:
Histoso	` '						R, MLRA 149B)	2 cm Muck (A1	0) <b>(LRR K, L, MLRA 149B)</b>
	oipedon (A2)		Thin Dark Su						edox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Muck	•		(LRR K, I	L)	5 cm Mucky Pe	eat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gleye					Dark Surface (S	57) <b>(LRR K, L)</b>
	d Below Dark Surf	ace (A1	•					•	w Surface (S8) <b>(LRR K, L)</b>
•	ark Surface (A12)	acc (/ 11	Depleted Da			)		Thin Dark Surf	
	Mucky Mineral (S1)		Redox Depre						se Masses (F12) (LRR K, L, R)
Sandy C	Gleyed Matrix (S4)		·						dplain Soils (F19) <b>(MLRA 149B)</b>
Sandy F	Redox (S5)							•	ΓΑ6) <b>(MLRA 144A, 145, 149B)</b>
Stripped	d Matrix (S6)							Red Parent Ma	rark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	MLRA 14	19B)					Other (Explain	
21 1: .	61 1 1								in Kemarks,
•	of hydrophytic veg		and wetland nyd	rology	/ must be	e preser I	it, uniess disturbe	ed or problematic.	_
	Layer (if observed)		Clave			l li calui a	Cail Duananta	,	Waa d Na
	Type:		Clay			пуштс	Soil Present?		Yes No
	Depth (inches):		14						<del>-</del>
Remarks:									

Hydrology Photos



**Vegetation Photos** 





Project/Site: Excelsior		City/County: Byro	n, Genesee County	Samplin	g Date: 2019-May-31
Applicant/Owner: NextEra			State: New	V York Sampling	Point: W-JDV-14; UPL-1
Investigator(s): Jeff Vandeveer,	IBP		Section, Township,	Range:	
Landform (hillslope, terrace, etc.):	Swale		Local relief (concave, conv	ex, none): Concave	Slope (%): 1-10
<u> </u>	RR L		Lat: 43.0681671	Long: -78.11121	22 Datum: WGS84
Soil Map Unit Name: Ontario lo	oam, 8 to 15 perce	nt slopes		NWI	classification: PFO1B
Are climatic/hydrologic conditions	• • •	-		(If no, explain in	n Remarks.)
Are Vegetation, Soil,		significantly dis		al Circumstances" pre	
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any answers	in Remarks.)
SUMMARY OF FINDINGS – A	ttach site map :	showing samplir	ng point locations, trar	nsects, important	features, etc.
Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes .	No	Is the Sampled Area within	n a Wetland?	Yes No
Wetland Hydrology Present?		No _ <b>_</b> _	If yes, optional Wetland Si	te ID:	
Remarks: (Explain alternative pro		-		te 15.	
TRC covertype is UPL. Area is upl	and, not all three v	wetland parameter	s are present.		
HYDROLOGY Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; ch	neck all that apply)		Secondary Indicator	s (minimum of two required)
Surface Water (A1)		_ Water-Stained Lea	aves (B9)	Surface Soil Crac	ks (B6)
High Water Table (A2)		_ Aquatic Fauna (B1	3)	Drainage Pattern	
Saturation (A3)		_ Marl Deposits (B1		Moss Trim Lines	
Water Marks (B1)	_	_ Hydrogen Sulfide		Dry-Season Wate	
Sediment Deposits (B2)	_	_ Oxidized Rhizosph	neres on Living Roots (C3)	Crayfish Burrows	e on Aerial Imagery (C9)
Drift Deposits (B3)		_ Presence of Reduc	red Iron (CA)	Stunted or Stress	• •
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)	Geomorphic Pos	
Iron Deposits (B5)		_ Thin Muck Surface	` '	Shallow Aquitard	
Inundation Visible on Aerial Ir	magery (B7)	_ Other (Explain in F	Remarks)	Microtopographi	ic Relief (D4)
Sparsely Vegetated Concave S	Surface (B8)			FAC-Neutral Test	(D5)
Field Observations:					
Surface Water Present?	Yes No _	<u>✓</u> Depth (	(inches):		
Water Table Present?	Yes No _	<u>✓</u> Depth (	(inches):	Wetland Hydrology	Present? Yes No
Saturation Present?	Yes No _	✓ Depth (	(inches):		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring	g well, aerial photos	s, previous inspections), if a	available:	
Remarks:					
No positive indication of wetland	. hydrology was ob	oserved.			

Tree Stratum (Plot size:30 ft)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species	3	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:  Total % Cover of:	Multiply	Dv.
7.				OBL species 0	$\frac{\text{Multiply}}{\times 1} =$	<u>ъу.</u> О
	0	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x3=	0
1. Juglans nigra	10	Yes	FACU	FACU species 110	x 4 =	440
2				UPL species 5	x 5 =	25
3				Column Totals 115	(A)	465 (B)
4.				Prevalence Index = B/A =	(A) 4	403 (b)
5.					4	<del></del>
6.				Hydrophytic Vegetation Indicators:	(t-t	
7.				1- Rapid Test for Hydrophytic	vegetation	1
	10	= Total Cov	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)		=		3 - Prevalence Index is ≤ 3.01	1 (Duay i al a	
1. Solidago canadensis	45	Yes	FACU	4 - Morphological Adaptations data in Remarks or on a separate sl		supporting
2. Alliaria petiolata	25	Yes	FACU	Problematic Hydrophytic Vege		(nlain)
3. Dactylis glomerata	20	No	FACU	¹Indicators of hydric soil and wetlar	•	
4. Arctium minus	10	No	FACU	present, unless disturbed or proble	,	gy mast se
5. Apocynum androsaemifolium	5	No	UPL	Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		
8.				Sapling/shrub – Woody plants less t	han 3 in. I	DBH and
9.				greater than or equal to 3.28 ft (1 m	n) tall.	
10.				Herb – All herbaceous (non-woody)		gardless of
11.				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3	.28 ft in
	105	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetation Present?	Yes N	No oN
1.						
2.						
3.						
4.				•		
	0	= Total Cov	er	•		
Demonstration (for the demonstration between the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	1	=				
Remarks: (Include photo numbers here or on a separat	e sneet.)					
No positive indication of hydrophytic vegetation was ob	sonied (~	50% of do-	ninant cocci	os indovad as EAC- or drior		
Two positive indication of hydrophytic vegetation was of	oserveu (≥	ווטט וט יייטכ.	mant speci	es muexeu as FAC- of utilet).		

Depth	cription: (Describe Matrix	to the u	eptii needed to d Redox			indicatoi	or confirm the al	osence of indicators.)
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc2	Texture	Remarks
0 - 14	10YR 4/4	100		_			Silt Loam	
				_				
				_				
				_				
				_				
				_				
				_		<del></del> .		
	Concentration, D =	Depletio	on, RM = Reduced	Matı	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
•	Indicators:		Dalianat E			·0) // P.D.	D MIDA 4400	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1) pipedon (A2)		Polyvalue Be Thin Dark Su				R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2) istic (A3)		Loamy Muck					Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye			(2.1.1.1., 1	-7	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	ed Layers (A5)		Depleted Ma					Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Deplete	ed Below Dark Surfa	ace (A11						Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dar			)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depre	ssion	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent Material (F21)
	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					Other (Explain in Remarks)
Indicators	of hydrophytic veg	etation	and wetland hydi	ology	y must be	e preser	t, unless disturbe	d or problematic.
estrictive	Layer (if observed):							
	Type:		None			Hydric	Soil Present?	Yes No/_
	Depth (inches):							
emarks:								
lo positivo	indication of hydri	ic coile w	vac obsopved					
lo positive	e indication of hydri	ic soils v	vas observed.					
lo positive	indication of hydri	ic soils v	vas observed.					
lo positive	indication of hydri	ic soils v	vas observed.					
No positive	indication of hydri	ic soils v	vas observed.					
No positive	indication of hydri	ic soils v	vas observed.					
lo positive	indication of hydri	ic soils v	vas observed.					
lo positive	indication of hydri	ic soils v	vas observed.					
lo positive	indication of hydri	ic soils v	vas observed.					

Photo of Sample Plot







Project/Site: Excelsior	City/County: Byro	on, Genesee	Sampling Date: 2019-June-05			
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-17; PFO-1			
Investigator(s): Jake Brillo, Nick	c DeJohn	Section, Township,	Range:			
Landform (hillslope, terrace, etc.)	: Swamp	Local relief (concave, conv	ex, none): Flat Slo	pe (%): 1-10		
Subregion (LRR or MLRA):L	RR L	Lat: 43.062924114	1 Long: -78.0980643724 Date	um: WGS84		
Soil Map Unit Name: Appletor	silt loam, 0 to 3 percent slopes		NWI classification:			
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology significantly di		al Circumstances" present? Yes _	✓ No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map showing sampli	ng point locations, trai	nsects, important features, etc.			
Hydrophytic Vegetation Present	? Yes No					
Hydric Soil Present?	 Yes _ <b>_∕_</b> No	Is the Sampled Area withi	n a Wetland? Yes 🟒	No		
•		·				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID: W-JJB-17			
Remarks: (Explain alternative pr	ocedures here or in a separate report	·)				
TRC covertype is PFO. Wetter the	an average year					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; check all that apply)		Secondary Indicators (minimum of tw	vo required)		
<u> ✓</u> Surface Water (A1)	<u></u> Water-Stained Lea		Surface Soil Cracks (B6)			
<u>✓</u> High Water Table (A2)	Aquatic Fauna (B1		Drainage Patterns (B10) Moss Trim Lines (B16)			
✓ Saturation (A3)	Marl Deposits (B1		Dry-Season Water Table (C2)			
✓ Water Marks (B1)	Hydrogen Sulfide	heres on Living Roots (C3)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Kriizospi	neres on Living Roots (C3)	Saturation Visible on Aerial Image	ery (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)	, ,		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)			
Inundation Visible on Aerial I	magery (B7) Other (Explain in I	Remarks)	✓ Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)		<u>✓</u> FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 3				
Water Table Present?	Yes No Depth	(inches): 6	Wetland Hydrology Present? Ye	s No		
Saturation Present?	Yes _ 🗸 No Depth	(inches): 0				
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·				
	n gauge, monitoring well, aerial photo	c previous inspections) if	available.			
Describe Recorded Data (stream	r gauge, mornioring well, aeriai photo	s, previous irispections,, ir	available.			
Remarks:						
İ						

-	Absoluto	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Species?	Status	Number of Dominant Species That		
1 Carva cordiformic	25	Yes	FAC	Are OBL, FACW, or FAC:	5	(A)
1. Carya cordiformis				Total Number of Dominant Species		
2. Carya ovata	20	Yes	FACU	Across All Strata:	6	(B)
3. Fraxinus pennsylvanica	15	Yes	FACW	Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	83.3	(A/B)
5.				Prevalence Index worksheet:		
6	· ——			Total % Cover of:	Multiply	By:
7				OBL species 15	x 1 =	15
	60	= Total Cove	er	FACW species 15	x 2 =	30
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 55	x 3 =	165
1. Carpinus caroliniana	12	Yes	FAC	FACU species 20	x 4 =	80
2				UPL species 0	x 5 =	0
3				Column Totals 105	(A)	290 (B)
4				Prevalence Index = B/A =	-	290 (b)
5.	· ·					<del></del>
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	/egetation	
	12	= Total Cove	er	2 - Dominance Test is >50%		
Herb Stratum (Plot size: _ 5 ft)		_		$\checkmark$ 3 - Prevalence Index is $\le$ 3.0 <sup>1</sup>		
1. Carex blanda	18	Yes	FAC	4 - Morphological Adaptations		supporting
2. Glyceria striata	15	Yes	OBL	data in Remarks or on a separate sl		
3.		103	ODL	Problematic Hydrophytic Vege		•
				¹Indicators of hydric soil and wetlar		gy must be
4.				present, unless disturbed or proble	matic	
5.				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20.6
12				Woody vines – All woody vines grea	ter than 3.	28 π in
	33	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft )	'	_		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.						
3.				•		
4.				•		
	0	= Total Cove	er e	•		
		-				
Remarks: (Include photo numbers here or on a separa	te sheet.)					

	cription: (Describe	to the d	-			ndicato	or confirm the at	sence of indicat	ors.)
Depth _	Matrix		Redox						
(inches)	Color (moist)	<u> %</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 7	10YR 2/1	100					Silt Loam		
7 - 16	2.5Y 3/1	70	7.5YR 4/6	15	C	<u>M</u>	Silty Clay	Loam	
7 - 16	10YR 4/1	15		. —					
-		- —							
-									
-									
¹Type: C = 0	Concentration, D =	Depletion	on, RM = Reduced	d Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Por	e Lining, M = Matrix.
Hydric Soil	Indicators:			_				Indicators for P	Problematic Hydric Soils³:
Histoso			Polyvalue Be	low S	urface (S	8) <b>(LRR</b> l	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su						ie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K, I	-)	· <del></del>	/ Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					-	te (S7) <b>(LRR K, L)</b>
	d Layers (A5)	. ,,,,	Depleted Ma					Polyvalue B	selow Surface (S8) (LRR K, L)
	d Below Dark Surf ark Surface (A12)	ace (ATT						Thin Dark S	urface (S9) (LRR K, L)
	Mucky Mineral (S1)		Depleted Da Redox Depre					Iron-Manga	nese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depre	233101	15 (1-0)				loodplain Soils (F19) <b>(MLRA 149B)</b>
	Redox (S5)							Mesic Spod	ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_	d Matrix (S6)							Red Parent	
	u Matrix (36) Irface (S7) <b>(LRR R, N</b>	MI DA 14	OP)					-	w Dark Surface (TF12)
Daik 30	111ace (37) (LKK K, I	VILIA 14						Other (Expl	ain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e preser	t, unless disturbe	d or problematio	
Restrictive	Layer (if observed)	:							
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:				-					

Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot





Project/Site: Excelsior	City/County: Byro	Sampling	Sampling Date: 2019-June-12		
Applicant/Owner: NextEra		State: NY	Sampling Point: W-JJB-33; UPL-3		
Investigator(s):Jake Brillo, Isaad	: Pallant	Section, Township,	Range:		
Landform (hillslope, terrace, etc.):	Agricultural Field	Local relief (concave, conv	ex, none): Convex	Slope (%): 1-10	
Subregion (LRR or MLRA): LF	RR L	Lat: 43.055653190	3 <b>Long:</b> -78.089045	55284 <b>Datum:</b> WGS84	
Soil Map Unit Name: Lamson v	ery fine sandy loam		NWI c	lassification:	
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	_ <b>∠</b> (If no, explain in F	Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstances" pres	sent? Yes No 🟒	
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers i	n Remarks.)	
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trai	nsects, important f	eatures, etc.	
Hydrophytic Vegetation Present?					
Hydric Soil Present?	Yes No <b></b> ∠_	Is the Sampled Area withi	n a Wetland?	Yes No∕_	
Wetland Hydrology Present?	Yes No _ <b>_</b>	If yes, optional Wetland Si			
	ocedures here or in a separate report		te ib.		
TRC covertype is UPL. Circumstar	nces are not normal due to agricultur	ral activities, Wetter than a	verage year		
HYDROLOGY Wetland Hydrology Indicators:					
	one is required; check all that apply)		Secondary Indicators	(minimum of two required)	
		(00)	Surface Soil Crack	•	
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns		
Fight Water Table (A2) Saturation (A3)	Aquatic Fauria (B1		Moss Trim Lines (I		
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water	· Table (C2)	
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows		
•		-	Saturation Visible	on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5) Inundation Visible on Aerial Ir	Thin Muck Surface		Shallow Aquitard (D3) Microtopographic Relief (D4)		
Sparsely Vegetated Concave S	· · · · · · · · · · · · · · · · · · ·	Kelliai KS)	FAC-Neutral Test (		
Field Observations:	741 Tace (B0)			<del>55)</del>	
Surface Water Present?	Yes No <u></u> ✓ Depth	(inches):			
Water Table Present?		(inches):	Wetland Hydrology P	resent? Yes No	
Saturation Present?		· · · · · · · · · · · · · · · · · · ·	- Wedana Hydrology i	resent: 103NO	
	Yes No Depth	(inches):	-		
(includes capillary fringe)					
Describe Recorded Data (stream	gauge, monitoring well, aerial photo	s, previous inspections), if a	available:		
Remarks:					

T () () () () ()	Absolute %	Dominant	Indicator	Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Cover	Species?	Status	Number of Dominant Species That	0	(4)		
1.				Are OBL, FACW, or FAC:		(A)		
2.	-			Total Number of Dominant Species	0	(D)		
3.				Across All Strata:		(B)		
4.	-			Percent of Dominant Species That		(A (D)		
				Are OBL, FACW, or FAC:		(A/B)		
5				Prevalence Index worksheet:				
6				Total % Cover of:	Multiply	<u>Ву:</u>		
7				— OBL species0	x 1 =	0		
	-	= Total Cover		FACW species 0	x 2 =	0		
Sapling/Shrub Stratum (Plot size: 15 ft	_)			FAC species 0	x 3 =	0		
1				— FACU species 0	x 4 =	0		
2				UPL species 0	x 5 =	0		
3				— Column Totals 0	(A)	0 (B)		
4				Prevalence Index = B/A =	-	- (-)		
5					<del></del>			
6				<ul><li>Hydrophytic Vegetation Indicators:</li><li> 1- Rapid Test for Hydrophytic Vegetation</li></ul>	logotation			
7				2 - Dominance Test is > 50%	regetation			
	0	= Total Cover						
Herb Stratum (Plot size: <u>5 ft</u> )				3 - Prevalence Index is ≤ 3.01	1 (D			
1				4 - Morphological Adaptations		supporting		
2.				<ul><li>data in Remarks or on a separate sl</li><li>Problematic Hydrophytic Vege</li></ul>		nlain)		
3.				Indicators of hydric soil and wetland hydrology must b				
4.				present, unless disturbed or problematic				
5.				· · · · · · · · · · · · · · · · · · ·	matic			
6.				Definitions of Vegetation Strata:		d:		
7.	-			Tree – Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.				
				Sapling/shrub – Woody plants less than 3 in. DBH and				
8				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 grea		28 ft in		
12				height.	ter triair 5.	2011111		
	0	= Total Cover			·/ N			
Woody Vine Stratum (Plot size: 30 ft )				Hydrophytic Vegetation Present?	res iv	10		
1				_				
2				_				
3				_				
4								
	0	= Total Cover						
Remarks: (Include photo numbers here or	r on a senarate	sheet )						
include photo numbers here of	оп а зераган	e sileet.)						
Active agricultural field								
Active agricultural field								

	cription: (Describe	to the de	-			ndicato	or confirm the at	osence of indicato	ors.)	
Depth	Matrix		Redox	Feat	tures					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc2	Texture		Remarks	
0 - 15	10YR 3/2	100					Silty Clay Loam			
				_						
				. —				-		
				_						
		· — ·		. —						
				. —						
¹Type: C = 0	Concentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	Lining, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Pr	roblematic Hydric Soils³:	
Histoso	(A1)		Polyvalue Bel	ow S	urface (S	8) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (	A10) (LRR K, L, MLRA 149B)	
Histic E	oipedon (A2)		Thin Dark Sui	face	(S9) (LRR	R, MLR	A 149B)		e Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		Loamy Mucky	/ Min	eral (F1)	(LRR K, I	_)		Peat or Peat (S3) (LRR K, L, R)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface		
Stratifie	d Layers (A5)		Depleted Mat	rix (I	<del>-</del> 3)					
	d Below Dark Surfa	ace (A11)						Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)		
	ark Surface (A12)		Depleted Dar						nese Masses (F12) (LRR K, L, R)	
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy C	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy F	tedox (S5)							Red Parent N		
Stripped	d Matrix (S6)									
Dark Su	rface (S7) (LRR R, N	/ILRA 149	)B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
a. II.	61 1 1 11								iii iii Kemarks)	
-	of hydrophytic veg Layer (if observed):		and wetland hydr	olog	y must be	e preser	it, unless disturbe	d or problematic.		
restrictive i	Type:		None			Hydric	Soil Present?		Yes No/_	
	• •		None			riyuric	Jon Fresent:		les NO <u>/</u>	
	Depth (inches):									
Remarks:										

Vegetation Photos



Soil Photos



Photo of Sample Plot







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

Project/Site: Excelsior	City/County: Elba	, Genesee	Sampling Date: 2019-June-0				
Applicant/Owner: NextEra		State: NY	Sampling Point: \	V-JJB-20; PSS-1			
Investigator(s): Jake Brillo, Nick	DeJohn	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0-1			
Subregion (LRR or MLRA): LR	RR L	Lat: 43.046428361	Long: -78.1089331862	Datum: WGS84			
Soil Map Unit Name: Ovid silt lo	oam, 0 to 3 percent slopes		NWI classific	ation:			
Are climatic/hydrologic conditions	on the site typical for this time of yea	ar? Yes <u></u> ✓ No	(If no, explain in Remar	·ks.)			
Are Vegetation, Soil,	or Hydrology significantly dis		al Circumstances" present?	Yes No			
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any answers in Rema	arks.)			
Summary of Findings – Af	ttach site map showing samplir	ng point locations, trai	nsects, important feature	es, etc.			
Hydrophytic Vegetation Present?	Yes _ <b>✓</b> _ No						
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes/_ No			
Wetland Hydrology Present?		If yes, optional Wetland S		W-JJB-20			
	Yes No		ite ib.	VV-JJB-20			
Remarks: (Explain alternative pro	cedures here or in a separate report)						
TRC covertype is PSS. Wetter than	ı average year						
HYDROLOGY							
Waland Hidelan Ladinas							
Wetland Hydrology Indicators:	ana ia wani wa da ahaala alla dhada an ah A		Canandam Hadinaham (minim	af h wa mima d\			
	one is required; check all that apply)		Secondary Indicators (minin	num of two required)			
Surface Water (A1)	Water-Stained Lea		<ul><li>Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li></ul>				
High Water Table (A2)	Aquatic Fauna (B1		Moss Trim Lines (B16)				
✓ Saturation (A3)	Marl Deposits (B15 Hydrogen Sulfide		Dry-Season Water Table (C2)				
Water Marks (B1) Sediment Deposits (B2)	, ,	neres on Living Roots (C3)	5 5 1 5 (50)				
Sediment Deposits (B2)	Oxidized Kriizospi	ieres on Living Roots (es)	✓ Saturation Visible on Aer	ial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduc	ced Iron (C4)	Stunted or Stressed Plan	ts (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduc	tion in Tilled Soils (C6)	✓ Geomorphic Position (D2	2)			
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Ir		Remarks)	Microtopographic Relief	(D4)			
Sparsely Vegetated Concave S	ourface (B8)		✓ FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present?	Yes No <u></u> Depth	(inches):					
Water Table Present?	Yes No Depth	(inches):	Wetland Hydrology Present	Yes No			
Saturation Present?	Yes 🗸 No Depth	(inches): 0					
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monitoring well, aerial photos	s, previous inspections), if	available:				
•							
Remarks:							
Terrior No.							

#### VEGETATION -- Use scientific names of plants.

<u>rree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 3	(A)
. Salix nigra 2.	10	Yes	OBL	Are OBL, FACW, or FAC: Total Number of Dominant Specie	s <u>4</u>	(B)
3. I.				Across All Strata: Percent of Dominant Species That	75	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
j				Prevalence Index worksheet:	N. de Jahre I. e	D
				Total % Cover of: OBL species 85	<u>Multiply</u>	-
	10	= Total Cov	ver	- OBL species 85 FACW species 30	_ x1= _	85 60
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		_		FAC species 3	_ x2= x3=	9
. Salix nigra	60	Yes	OBL	FACU species 60	- x3 x4=	240
. Cornus alba	15	Yes	FACW	UPL species 0	_	0
				Column Totals 178		
					_ (A) _	394 (B)
				Prevalence Index = B/A		<del></del>
				Hydrophytic Vegetation Indicators		
·.				1- Rapid Test for Hydrophytic	Vegetation	
	75	= Total Cov	/er	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)	-	=		3 - Prevalence Index is ≤ 3.0		
. Solidago canadensis	60	Yes	FACU	4 - Morphological Adaptation		supporting
2. Cornus alba	15	No	FACW	data in Remarks or on a separate	=	
3. Galium asprellum	15	No	OBL	Problematic Hydrophytic Veg		
l.				Indicators of hydric soil and wetla	,	gy must be
5.				present, unless disturbed or prob	iemauc	
5.				Definitions of Vegetation Strata:		d:
7.			•	Tree – Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of		ilameter a
3.				Sapling/shrub – Woody plants less		NPU and
				greater than or equal to 3.28 ft (1		DIT allu
). 			•	Herb – All herbaceous (non-wood)		ardless of
	- ——			size, and woody plants less than 3		gai aicss oi
1	- ——			Woody vines – All woody vines gre		28 ft in
2				height.		
	90	_= Total Cov	ver	Hydrophytic Vegetation Present?	Voc. / N	lo.
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				nydrophytic vegetation Present?	162 <u>7</u> IV	
. Vitis riparia	3	No	FAC			
3.						
ł	3	= Total Cov	ver .			

Depth	Matrix			x Featı			<b>-</b> .	<b>D</b>
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	
0 - 17	10YR 4/2	85	7.5YR 5/8	15	C	<u>M</u>	Clay Loar	<u> </u>
		_						
	-	-						
	-	-						
	-	-						
	-	-						
	Concentration, D = I	. <u>—</u> Deplet	ion. RM = Reduce	d Mat	rix. MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
•	Indicators:		,					Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue B	elow S	urface (S	58) <b>(LRR I</b>	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E <sub>l</sub>	oipedon (A2)		Thin Dark S					Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muc	-		(LRR K, I	_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	.co (A1	/ Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (A i	Depleted Da			)		Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
•	Gleyed Matrix (S4)				,			Piedmont Floodplain Soils (F19) (MLRA 149B)
	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Strippe	d Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) <b>(LRR R, M</b>	ILRA 1	49B)					Other (Explain in Remarks)
Indicators	of budrophytic you	ototion	and watland by	drolog	ı must b	0 05000	t uplace dieturbe	
	of hydrophytic vego Layer (if observed):	etatioi	i and welland nyt	ar olog	y must b	e presen	t, uniess disturbe	ed or problematic.
estrictive	Type:		Gravel			Hydric	Soil Present?	Yes No
	Depth (inches):		17	-		riyanc	John resent:	163 <u>v</u> 140 <u> </u>
emarks:	Deptit (inches).	_	17					
erriarks.								

Hydrology Photos



**Vegetation Photos** 





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

Project/Site: Excelsior	City/County: Byro	on, Genesee		9-May-31		
Applicant/Owner: NextEra		State: NY	S	ampling Point: W-JJB	-10; PFO-1	
Investigator(s):Jake Brillo, Rebeco	ca Cosgrove	Section, Township,	Range:			
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, conv	ex, none):(	Concave	Slope (%): 2-5	
Subregion (LRR or MLRA): LRR	(L	Lat: 43.070155056	2 Long: -	78.0585818366	Datum: WGS84	
Soil Map Unit Name: Ontario loa	m, 0 to 3 percent slopes			NWI classification	n: PFO1B	
Are climatic/hydrologic conditions of	on the site typical for this time of ye	ar? Yes No	_ <b>∠</b> (If no, e	explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly dis				Yes No	
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed,	explain any	answers in Remarks.	)	
SUMMARY OF FINDINGS – Atta	ach site map showing sampli	ng point locations, trar	nsects, imp	oortant features, e	etc.	
Hydrophytic Vegetation Present?	Yes _✓_ No					
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland	? Yes _	No	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	ite ID:	W-JJE	3-10	
	edures here or in a separate report					
Remarks. (Explain alternative proce	sucres here of in a separate report	,				
TRC covertype is PFO. Wetter than	average vear					
The coverty period is a recent chair	ave. age yea.					
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	ne is required; check all that apply)		<u>Secondary</u>	Indicators (minimum	of two required)	
Surface Water (A1)	Water-Stained Lea	aves (B9)		Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B1	3)	_	e Patterns (B10)		
<u>✓</u> Saturation (A3)	Marl Deposits (B1		Moss Tr			
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizosph	neres on Living Roots (C3)	-	on Visible on Aerial Ir	magery (C9)	
Drift Deposits (B3)	Presence of Redu	red Iron (C4)		or Stressed Plants (D		
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		rphic Position (D2)	,	
Iron Deposits (B5)	Thin Muck Surface			Aquitard (D3)		
Inundation Visible on Aerial Ima	agery (B7) <u> </u>	Remarks)	_✓ Microto	pographic Relief (D4)		
Sparsely Vegetated Concave Su	rface (B8)		<u></u> ✓ FAC-Neu	utral Test (D5)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches):	_			
Water Table Present?	Yes No Depth	(inches):	Wetland Hy	drology Present?	Yes No	
Saturation Present?	Yes No Depth	(inches): 0				
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos	s, previous inspections), if a	available:			
Remarks:						
Recently dug ditch at the southwes	stern corner of the wetland May hav	ve altered hydrology				
	·					

#### VEGETATION -- Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species That	_	
1. Fraxinus pennsylvanica	40	Yes	FACW	Are OBL, FACW, or FAC:	5	(A)
2.			171011	Total Number of Dominant Species		
3.				Across All Strata:	5	(B)
				Percent of Dominant Species That	100	(A (B)
4.				Are OBL, FACW, or FAC:	100	(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	<u>By:</u>
7				- OBL species 0	x 1 =	0
	40	= Total Cov	er	FACW species 135	x 2 =	270
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 78	x 3 =	234
1. Cornus racemosa	35	Yes	FAC	FACU species 0	x 4 =	0
2. Fraxinus pennsylvanica	20	Yes	FACW	- UPL species 0	x 5 =	0
3. <i>Rhamnus cathartica</i>	15	Yes	FAC	Column Totals 213	(A)	504 (B)
4.					-	304 (B)
5.				Prevalence Index = B/A =		
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	/egetation	
	70	= Total Cove	er e	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5 ft)		-		$\checkmark$ 3 - Prevalence Index is $\le 3.0^{1}$		
1. Solidago gigantea	75	Yes	FACW	4 - Morphological Adaptations		supporting
2. Cornus racemosa	18	No No	FAC	data in Remarks or on a separate sh		
	10			- Problematic Hydrophytic Vege		•
3. Rumex crispus		No	FAC	<sup>1</sup> Indicators of hydric soil and wetlan		gy must be
4.				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		DBH and
9				greater than or equal to 3.28 ft (1 m		
10	_			Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		
12.				Woody vines – All woody vines grea	ter than 3.	.28 ft in
	103	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft )		=		Hydrophytic Vegetation Present?	Yes 🟒 N	lo
1.						
2.				-		
3.				<del>-</del>		
				<del>-</del>		
4		Tatal Care		-		
	0	_= Total Cove	er ———			
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

	-	to the c	-			indicator	or confirm the al	osence of indicators.)
Depth	Matrix		Redo				<b>-</b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	
0 - 2	2.5YR 2.5/1	100	10)/D 1/6	_			Silt Lo	
2-8	2.5Y 3/1	96	10YR 4/6	4	C	M/PL	Silty Clay	
8 - 16	7.5YR 4/3	80	7.5YR 4/6	20	C	M	Clay L	oam
			-					
		Depleti	on, RM = Reduce	d Ma	trix, MS =	- Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil In								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (							R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark S					Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	Sulfide (A4)		Loamy Muc Loamy Gley				.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	Layers (A5)		Depleted M					Dark Surface (S7) (LRR K, L)
	, , ,	face (A1	Depleted III 1)_✓ Redox Dark					Polyvalue Below Surface (S8) (LRR K, L)
Thick Dar	k Surface (A12)		Depleted Da	ark Su	ırface (F7	7)		Thin Dark Surface (S9) (LRR K, L)
Sandy Mu	cky Mineral (S1)	)	Redox Depr	essio	ns (F8)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gle	yed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	dox (S5)							Red Parent Material (F21)
Stripped	Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surf	ace (S7) <b>(LRR R, I</b>	MLRA 14	19B)					Other (Explain in Remarks)
3Indicators of	hvdrophytic ves	getation	and wetland hyd	Irolog	ov must k	ne nresen	t, unless disturbe	
	yer (if observed)		and medana ny	0.08	5)		<del>, a</del>	a o . p. o
T	/pe:		None			Hydric S	oil Present?	Yes <u></u> No
D	epth (inches):							
Remarks:								

Vegetation Photos



#### Soil Photos



Photo of Sample Plot



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

Project/Site: Excelsior	City/County: Elba	a, Genesee	Sampling Date: 2019-June-05				
Applicant/Owner: NextEra		State: NY	Sampling Point:	W-JJB-19; UPL-1			
Investigator(s):Jake Brillo, Nick	DeJohn	Section, Township,	Range:				
Landform (hillslope, terrace, etc.):	: Agricultural Field	Local relief (concave, conv	ex, none): Flat	Slope (%): 1-10			
Subregion (LRR or MLRA): LF	RR L	Lat: 43.058907799	5 <b>Long:</b> -78.1038763002	Datum: WGS84			
Soil Map Unit Name: Appleton	silt loam, 0 to 3 percent slopes		NWI classific	cation:			
Are climatic/hydrologic conditions	s on the site typical for this time of ye	ear? Yes No	(If no, explain in Remar	ks.)			
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Norm	al Circumstances" present?	Yes No _ <b>_</b> /_			
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed,	explain any answers in Rem	arks.)			
SUMMARY OF FINDINGS – A	ttach site map showing sampli	ng point locations, trar	nsects, important featur	es, etc.			
Hydrophytic Vegetation Present?	Yes No _ <b>_</b>						
Hydric Soil Present?	Yes No	Is the Sampled Area within	n a Wetland?	Yes No			
Wetland Hydrology Present?	Yes No _ <b>_/</b> _	If yes, optional Wetland Si	te ID:				
	ocedures here or in a separate report			_ <del>.</del>			
TRC covertype is UPL. Circumstar	nces are not normal due to agricultur	ral activities, Wetter than av	verage year				
HYDROLOGY  Wetland Hydrology Indicators:							
	one is required; check all that apply)		Secondary Indicators (minir	mum of two required)			
		(00)	Surface Soil Cracks (B6)	num or two required)			
Surface Water (A1) High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1		Drainage Patterns (B10)				
Saturation (A3)	Aquatic Fauria (B1		Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	, ,	heres on Living Roots (C3)	Crayfish Burrows (C8)				
			Saturation Visible on Ae				
Drift Deposits (B3)	Presence of Redu		Stunted or Stressed Plan				
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D	2)			
Iron Deposits (B5) Inundation Visible on Aerial Ir	Thin Muck Surfact magery (B7) Other (Explain in		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief</li></ul>	· (D4)			
Sparsely Vegetated Concave S		nemarks)	FAC-Neutral Test (D5)	(04)			
Field Observations:							
Surface Water Present?	Yes No Depth	(inches):					
Water Table Present?		(inches):	· Wetland Hydrology Present	t? Yes No _ <b>_</b> ∠			
Saturation Present?		(inches):					
(includes capillary fringe)	<u> </u>		-				
	gauge, monitoring well, aerial photo	s previous inspections) if:	available.				
Describe Recorded Data (Stream	gauge, monitoring well, aeriai prioto	s, previous irispections,, ir a	avallable.				
Remarks:							

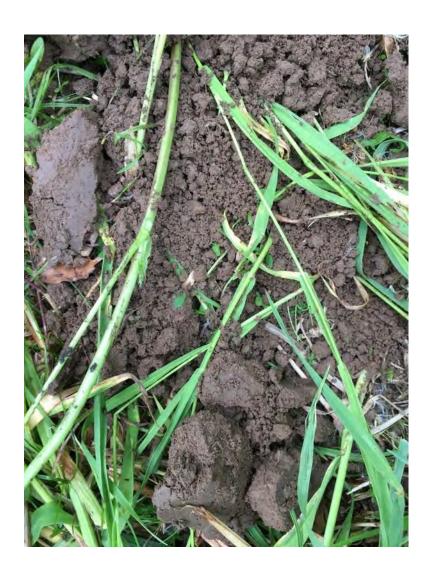
#### VEGETATION -- Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species Tha		
1.	-			Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Specie	s	(D)
3.				Across All Strata:	2	(B)
4.				Percent of Dominant Species That	0	(A /D)
				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	<u>Multiply</u>	By:
7				OBL species 0	x 1 =	0
	0	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft )				FAC species 0	x 3 =	0
1				FACU species 145	x 4 =	580
2				UPL species 0	x 5 =	0
3.				Column Totals 145	_	580 (B)
4.					- ' ' '	360 (В)
5.				Prevalence Index = B/A		
6.				Hydrophytic Vegetation Indicators		
7.				1- Rapid Test for Hydrophytic	Vegetation	1
		= Total Cove	ır	2 - Dominance Test is > 50%		
Harb Stratum (Blat size) E ft )		_ Total cove	.1	$3$ - Prevalence Index is $\leq 3.0^{\circ}$		
Herb Stratum (Plot size:5 ft)	O.F.	Voc	FACIL	4 - Morphological Adaptation	s¹ (Provide	supporting
1. Phleum pratense	85	Yes	FACU	data in Remarks or on a separate	sheet)	
2. <u>Medicago lupulina</u>	60	Yes	FACU	Problematic Hydrophytic Veg	etation¹ (E	xplain)
3				¹Indicators of hydric soil and wetla	nd hydrolc	gy must be
4				present, unless disturbed or prob	ematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7.				breast height (DBH), regardless of		
8.				Sapling/shrub – Woody plants less	than 3 in.	DBH and
9.				greater than or equal to 3.28 ft (1		
40				Herb – All herbaceous (non-wood)	) plants, re	gardless of
-				size, and woody plants less than 3		
11.				Woody vines – All woody vines gre	ater than 3	.28 ft in
12		Tabel Com		height.		
	145	= Total Cove	er.	Hydrophytic Vegetation Present?	Ves 1	No. /
Woody Vine Stratum (Plot size: 30 ft )				Trydrophydd Yegelddon i Yesend	1031	10 <u>v</u>
1						
2						
3						
4						
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separ	ata chaat \					
Remarks. (include prioto numbers here or on a separ	ate sileet.)					

Depth Ma (inches) Color (mo 0 - 6 10YR 4	oist) %	Color (moist)	Features  M Typ			Remarks
		Color (moist)	<u>% Тур</u>	e¹ Loc	<sup>2</sup> Texture	Remarks
0 - 6 10YR 4	/3 100					· '
					Silt Loam	
		-				
			. <u> </u>			
· · · · · · · · · · · · · · · · · · ·						
			· <u> </u>			
						· ·
1T			Naturity N	IC - Maal	and Count Cusins 21 s	sation DI - Dave Lining M - Matrix
Type: C = Concentratio	וו, ט = Depletio	וו, אוע = Keaucea	iviatrix, IV	ıs = iviask	leu Sanu Grains. <sup>2</sup> L0	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		-			RR R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Histic Epipedon (A2)		Thin Dark Su				Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A	4)	Loamy Mucky			K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5	-	Loamy Gleye Depleted Ma		-2)		Dark Surface (S7) (LRR K, L)
Depleted Below Dar				5)		Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (	-	Depleted Dar	-	•		Thin Dark Surface (S9) (LRR K, L)
Sandy Mucky Miner		Redox Depre				Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matri:		Nedox Bepre	31) 6110166	,		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)	(34)					Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
						Red Parent Material (F21)
Stripped Matrix (S6)	DD D MI DA 14	OD)				Very Shallow Dark Surface (TF12)
Dark Surface (S7) <b>(L</b> l	KK K, WILKA 14	96)				Other (Explain in Remarks)
<sup>3</sup> Indicators of hydrophy	tic vegetation	and wetland hydr	ology mu	st be pre	sent, unless disturbed	d or problematic.
Restrictive Layer (if obs	erved):					
Type:		Rocks		Hyd	lric Soil Present?	Yes No <u>_</u> ✓
Depth (inch	es):	6				
Remarks:						

#### **Vegetation Photos**









Project Name	Excelsior				Date	05/29/	2019			
Project Number	328808				Evaluated By	JDV				
Address					-					
USGS Quadrang	(le(s): Byron, N	IY								
Stream Delineation	on ID S-JDV-01		Stream N	Name Spi	ring Creek					
	Stream Loca	ntion N	orth of Rou	 ute 262						
(e.g. ne	arest road, struc		01111011101							
Presumed Regulatory	Authority	Into	ermittent flo							
U.S. Army Corps	<i>Ratio</i> □ State	nale:	erinittent no	, , , , , , , , , , , , , , , , , , ,						
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) across Exist	ing W	ater 30
Perennial	oderate	Flood Plain			ure Bankfull \		· · ·			
☐ Intermittent	Stage ☐ Hig		Present?	No, Me	easure	Top of Bank \	Width	(ft.) <u>30</u>		
☐ Ephemeral	Flow Direction		Widt	h (ft.) acros	s Ordi	nary High Wa	ter Ma	ark*30		
☐ Undetermined	Average Depth		*Ordinary High Water Mark Indicators							
Streambed Su		<u>t</u>	☐ Natural Line I	mpressed o	n Ban	k Sco	our	☐ Wrack		
☐ Shale	and	□ <2% (		☐ Matted, bent	, or Absent	Veget	ation 🗆 Wa	ater St	taining	
	Organic	•	ś (1 - 2°) Mo		☐ Soil Characte			<b>A A</b>	elving	
	Cobble/Gravel		% (2 - 6°) St	•	☐ Terrestrial Ve			•		
☐ Silt ☐ C	Clay	□ >10%	(>6°) Very S	Steep	☐ Disturbed/W					Debris
☐ Other ————					☐ Plant Commu	inity Change	9	□ Se	dimen	it Sorting
	<u>Observed</u>	<u></u>			☐ Multiple Obs				positi	on
		imming	☐ Irrigation					Quality	_	
☐ Fishing ☐ Dra	ainage □ Dri	nking	☐ Aquacult	ture	Clear 🗆 Tur	<sup>-</sup> bid	⊔ Slig	ghtly Turbid		☐ Very Turbid
Other					Comments		<u> </u>			
	nk Slope	ath Clausius	Left*	Right*	Bank Heigh			Bank Eros		
	Nearly Level - Ger				Left*	1.5		Left		Right*
15 - 25% (9 - 14°)	Moderately Slopi	ııg			Right*	1.5	Mod	Low X		<b>X</b>
25 - 35% (14 - 20°)			20	20	* Dissatian subs	on foreign	IVIOC	High		
>35% (>20°)	·				* Direction whe	, ,				
Bank	<u>k Substrate</u>			<u>A</u>	<u>quatic Habitat</u>			<u>Estimate</u>	d Can	opy Closure
☐ Shale ☐ Gravel	Silt/Clay	□ Cobble	□ Aqua	tic Vegetati	on $\square$ N	1ud Bar		□ 0 - 10%		□ 50 - 60%
□ Bedrock □ Sand	☐ Riprap	☐ Organic	Overl	nanging Veg	getation	and Bar		□ 10 - 20%		□ 60 - 70%
□ Other			Unde	rcut Banks	R	iffle - Pool		20 - 30%		□ 70 - 80%
Comments			Grave	el Bar	<b>₩</b> P	lunge Pools		□30 - 40%		□ 80 - 90%
			☐ Other	r 				□ 40 - 50%		□90 - 100%



Stream Delineation ID S-JDV-1 Adjacent Community Type Forested, Shruby Floodplain Percent Cover **Dominant Species** Trees Willow, aspen Shrubs Willow, dogwood Herbaceous Phragmites, goldenrod, dames rocket **Woody Vines** Bare Soil/Rock Туре Impervious Туре Observed Fauna Fish □ Salamanders ☐ Waterfowl ☐ Mink ☐ Other Beaver rogs ☐ Otter □ Snakes ☐ Invertebrates ☐ Turtles ☐ Toads ☐ Muskrat Presence of Rare, Threatened, or Endangered Species  $\square$  No ☐ Yes Species & Evidence Undetermined Notes (include weather, site access issues, culverts, etc.) Cement bridge on wets end; surrounded by NWI's but no wetland found. Sketch (Optional)



Project Name	Excelsior				Date	05/29/	2019			
Project Number	328808				Evaluated By	JDV				
Address					-					
USGS Quadrang	le(s): Byron, N	ΙΥ								
Stream Delineation	on ID S-JDV-02		Stream N	Name UN	IT to Spring Creek					
	Stream Loca	ation N	orth of Rou	ute 262						
(e.g. ne	arest road, struc									
Presumed Regulatory		Inte	ermittent flo	NA/						
U.S. Army Corps	Ratio □ State	onale:	erinittent ne	, vv						
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) acros	ss Existing	Water 8
☐ Perennial	oderate	Flood Plain	☐ Yes,	Meas	ure Ba	nkfull Wid	th (ft.)			
Intermittent  Stage □ High □ Flood  Present? No, Measure Top of Bank Width (fi									th (ft.)8	
☐ Ephemeral	Flow Direction		Width	n (ft.) acros	s Ordi	nary Hi	gh Water	Mark*8		
□ Undetermined	Average Depth	3			<u>*c</u>	Ordinary Hig	gh Wa	ter Ma	rk Indicato	<u>ors</u>
Streambed Su	<u>ıbstrate</u>	<u>t</u>	☐ Natural Line II	mpressed c	n Ban	k	☐ Scour	☐ Wrack		
☐ Shale ☐ Sa	and	□ <2% (	<1°) Gentle		Matted, bent,	or Absent	Veget	ation	Water	Staining
☐ Bedrock ☐ C	rganic	□ 2 - 4%	6 (1 - 2°) Мо	derate	☐ Soil Character	Change			Shelvi	ng
☐ Boulders ☐ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestrial Ve	getation De	estroy	ed	□ Bed &	Banks
☐ Silt ☐ C	lay	□ >10%	(>6°) Very S	Steep	☐ Disturbed/Wa	ished-away	Leaf I	Litter	☐ Litter	& Debris
□ Other					☐ Plant Commu	nity Change	9		☐ Sedim	ent Sorting
	<u>Observed</u>	<u>Use</u>			Multiple Obse	rved Flow	Events	5	□ Depos	sition
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า		<u> </u>	<u>Vater</u>	Quality	<u>′</u>	
☐ Fishing ☐ Dra	ainage 🗆 Dri	inking	☐ Aquacult	ture	☐ Clear <b>X</b> Turi	bid	☐ Sli	ghtly Tu	urbid	☐ Very Turbid
☐ Other					Comments					
<u>Ba</u>	nk Slope		Left*	Right*	Bank Height	: (ft.)		<u>Bar</u>	nk Erosion	<u>Potential</u>
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			Left*	0.75			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng			Right* -	0.75		Low	<b>A A</b>	
15 - 25% (9 - 14°)	Steeply Sloping		20	20	-		Mod	derate _	×	×
25 - 35% (14 - 20°)	Steep				* Direction whe	-		High _		
>35% (>20°)	Very Steep				downstred	ım 				
	<u>Substrate</u>				quatic Habitat					anopy Closure
☐ Shale ☐ Gravel	☐ Silt/Clay	☐ Cobble		tic Vegetati	•	ud Bar			- 10%	□ 50 - 60% —
☐ Bedrock ☐ Sand 	☐ Riprap	Organic	• •	nanging Veg		ind Bar			) - 20%	□ 60 - 70%
Other —				rcut Banks		ffle - Pool			) - 30%	70 - 80%
Comments Leaf litte	er		☐ Grave		□ PI	unge Pools			) - 40%	□ 80 - 90%
			☐ Othe	r 				□ 4C	) - 50%	□90 - 100%



				Stream Delineation	on id 3-104-5				
Adjacent Community Ty	pe Forested, Shr	uby Floodplain							
Percent Cover	Dominant Spec	<u>cies</u>							
Trees 85	American eli	m, white ash, box eld	er, apple						
Shrubs 15	Dogwood, g	lossy buckthorne							
Herbaceous —————									
Woody Vines									
Bare Soil/Rock	Туре								
Impervious	Туре								
		<u>Obse</u>	rved Fauna						
☐ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	☐ Other _					
☐ Snakes	□Frogs	☐ Beaver	□ Otter	_					
☐ Turtles	☐ Toads	☐ Muskrat	☐ Invertebrates	_					
	<u>Pre</u>	sence of Rare, Threa	tened, or Endangered S	Species .					
□ No □ `	Yes Species & E	vidence							
Undetermined									
	<u>Note</u>	s (include weather, s	ite access issues, culve	rts, etc.)					
Backflow from spring creek;	little flow; ag field	influenced							
Sketch (Optional)									
		0							
				q					
				0					



Project Name	Excelsior			Date05/29/2019							
Project Number	328808			Evaluated By	JDV						
Address					-						
USGS Quadrang	le(s): Byron, N	IY									
Stream Delineation	on ID		Stream N	Name	IT to Spring Crook	,					
	S-JDV-03 Stream Loca	ntion	-		IT to Spring Creel	<u> </u>					
(e.g. ne	arest road, struc	N	lorth of Rou	ute 262							
Presumed Regulatory	Authority										
U.S. Army Corps	Ratio □ State	nale:	ermittent flo	OW .							
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) across Existing	Water 4		
☐ Perennial	Flow Dry		w XM	oderate	Flood Plain	□ Yes	, Meas	sure Bankfull Wid	th (ft.)		
Intermittent	<i>Stage</i> □ Hig	gh □ Flo	ood		Present?	No, Me	easure	Top of Bank Wid	th (ft.)9		
☐ Ephemeral	Flow Direction		Widt	th (ft.) acros	s Ordi	nary High Water	Mark*4				
☐ Undetermined	Average Depth			<u>*</u>	Ordinary Hi	gh Wa	ter Mark Indicato	<u>ors</u>			
Streambed Su	<u>ıbstrate</u>	nel Gradient	<u>:</u>	☐ Natural Line	Impressed o	on Ban	k □ Scour	☐ Wrack			
☐ Shale ☐ Sa	and	<2% (	<1°) Gentle		☐ Matted, bent	, or Absent	Veget	ation   Water	Staining		
	rganic	□ 2 - 4%	6 (1 - 2°) Mo	derate	☐ Soil Characte	r Change		☐ Shelvi			
**	obble/Gravel		% (2 - 6°) St								
☐ Silt ☐ C	lay	□ >10%	(>6°) Very S	Steep	Disturbed/W			<b>A A</b>			
Other					☐ Plant Commu	unity Chang	е	Sedim	ent Sorting		
	<u>Observed</u>	<u>Use</u>			☐ Multiple Obs	erved Flow	Events	s □ Depos	ition		
	59	imming	□ Irrigation	า		7	<u> Water</u>	Vater Quality			
☐ Fishing ☐ Dra	ainage □ Dri	nking	☐ Aquacult	ture	Clear □ Tu	rbid	☐ Sli	ghtly Turbid	☐ Very Turbid		
☐ Other					Comments						
	nk Slope		Left*	Right*	Bank Heigh	t (ft.)		Bank Erosion	<u>Potential</u>		
	Nearly Level - Ge				Left*	0.5		Left*	Right*		
	Moderately Slopi	ng	10	10	Right*	0.5		Low			
15 - 25% (9 - 14°)					-		Mod	derate X			
25 - 35% (14 - 20°)			* Direction who	, ,		High ————	<b>*</b>				
>35% (>20°)							T .				
	Substrate			_	quatic Habitat	Acad Dan			anopy Closure		
☐ Shale ☐ Gravel	Silt/Clay	□ Cobble		tic Vegetati		Aud Bar	□ 0 - 10%		□ 50 - 60%		
☐ Bedrock ☐ Sand ☐ Other	□ Riprap	☐ Organic	•	nanging Veg rcut Banks		and Bar iffle - Pool		□ 10 - 20% □ 20 - 30%	□ 60 - 70% □ 70 - 80%		
Comments			☐ Grave			lunge Pools	:	□30 - 40% □ 80 - 90%			
	□ Oth					TATISE FUUIS	•	₩ 40 - 50%	□ 80 - <del>30</del> %		
			_ 501101	· 				.0 30/0			



				Stream Delineation	on in 2-104-3							
Adjacent Community Typ												
Percent Cover	Dominant Spe	cies										
Trees												
Shrubs 100	Dogwood, s	salix, buckthorne, h	awthrone									
Herbaceous 												
Woody Vines												
Bare Soil/Rock	Туре											
Impervious	Туре											
		<u>Ob</u>	served Fauna									
□ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	☐ Other								
□ Snakes	□Frogs	☐ Beaver	☐ Otter	-								
☐ Turtles	☐ Toads	☐ Muskrat	☐ Invertebra	tes -								
	<u>Pre</u>	esence of Rare, Thr	ed Species									
□ No □ Y	es Species & l	Evidence										
Undetermined												
	Note	es (include weather	, site access issues, cu	ulverts, etc.)								
agricultural drainage												
: :	: : :											
Sketch (Optional)												
						u						
						a						
0			0	0		<u></u>						
						3						
						3						



Project Name	Excelsior			Date	05/29/2	2019						
Project Number 328808					Evaluat	ted By	JDV					
Address					-							
USGS Quadrang	le(s): Byron, N	IY										
Stream Delineati	on ID S-JDV-04		Stream N	Name UN	IT to Spring	g Creek						
	Stream Loca	ntion E	ast of Back	Street Roa	d							
(e.g. ne	arest road, struc				<b>.</b>							
Presumed Regulatory	Authority	Inte	ermittent flo	NA/								
U.S. Army Corps	<i>Ratio</i> □ State	nale: ———	erinice in the	, , , , , , , , , , , , , , , , , , ,								
Stream Class	<u>C</u>	bserved Hy	drology				Wid	dth (ft.	.) acros	s Existing	g Water6	
☐ Perennial	Flow □ Dry		w XM	oderate		d Plain	•			nkfull Wid		
Intermittent	<i>Stage</i> □ Hig	gh □ Flo	od		Pre	esent?	<b>(</b> No, Me	asure	Top of	Bank Wid	dth (ft.)10	
☐ Ephemeral	Flow Direction	West; N	lorth		-	Width (	ft.) acros	s Ordii	nary Hi	gh Water	· Mark*6	
☐ Undetermined			*Ord	<u>linary Hic</u>	gh Wa	ter Ma	rk Indicat	<u>ors</u>				
Streambed Su	<u>Streambed Substrate</u> <u>Channel Gradient</u>					al Line Imp	ressed o	n Banl	k	□ Scour	¬ □ Wrack	
☐ Shale ☐ S	and	<2% (	<1°) Gentle		□ Matte	d, bent, o	r Absent	Vegeta	ation	Wate	r Staining	
☐ Bedrock 💢 🤾	Organic	□ 2 - 4%	6 (1 - 2°) Mo	derate	☐ Soil Ch	naracter C	hange			☐ Shelv	ing	
☐ Boulders ☐ C	Cobble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terres	trial Vege	tation De	estroye	ed	□ Bed 8	k Banks	
□ Silt □ C	Clay	□ >10%	(>6°) Very 5	Steep	☐ Distur	bed/Wash	ied-away	Leaf L	itter	□ Litter	& Debris	
Othermuck					☐ Plant Community Change ☐ Sediment Sorting							
	Observed	<u>Use</u>			☐ Multip	ole Observ	ed Flow	Events		□ Depo	sition	
☐ Boating ☐ Sho	ellfishing 🗆 Sw	imming	☐ Irrigation	า			<u>v</u>	<u>Vater</u> (	Quality	<u>'</u>		
☐ Fishing ☐ Dra	ainage 🗆 Dri	nking	☐ Aquacult	ture	□ Clear	□ Turbio	d .	Slig	ghtly Tu	ırbid	☐ Very Turbid	
□ Other					Comments	S						
Ba	nk Slope		Left*	Right*	<u>Bank</u>	k Height (f	t.)		<u>Bar</u>	nk Erosior	n Potential	
0 - 8% (0 - 5°)	Nearly Level - Ger	ntly Sloping			-	Left*	1.5			Left*	Right*	
8 - 15% (5 - 9°)	Moderately Slopi	ng			-	Right*	1.5		Low	<b>A A</b>		
15 - 25% (9 - 14°)	Steeply Sloping		20	20	-			Mod	lerate –	×	<b>X</b>	
25 - 35% (14 - 20°)	25 - 35% (14 - 20°) Steep				* Direction when facing High							
>35% (>20°) Very Steep					do	wnstream						
Bank Substrate  Cravel					Aquatic Habitat Estimated Canopy Clos					A A		
☐ Shale ☐ Gravel Silt/Clay ☐ Cobble Aquatic Vegeta					**				50 - 60%			
☐ Bedrock ☐ Sand					etation	□ Sand				) - 20%	□ 60 - 70%	
Other							e - Pool			0 - 30%	□ 70 - 80%	
Comments	omments Gravel Bar					⊔ Plun	ge Pools			9 - 40%	□ 80 - 90% □90 - 100%	
	□ Other					□ 40 - 50% □90 - 1						



													Strea	am De	lineati	on ID	S-JI	DV-4			
Adjacent C	ommunit	у Туре	Agric	cultur	e/For	est															
<u>Percent</u>	Cover	_	<u>Domir</u>	nant S	Specie:	<u>s</u>															
Trees	25	_	Asł	h, ma	ple																
Shrubs	40				d, will	ow															
Herbaceous	35				phrag		golde	nrod													
Woody Vines				,																	
Bare Soil/Rock		_	Туре																		
Impervious			Туре																		
								Obse	rved F	auna											
□ Wate	erfowl		□ Fish	h		☐ Sal	aman	ders		□ Mi	nk			□ Ot	her						
□ Snak	es	>	<b>K</b> Frog	gs		□Ве	aver			□ Ot	ter										
☐ Turtl	les		□ Toa	ads		□Мι	uskrat			□ Inv	erteb	rates									
					Prese	nce of	Rare,	Threa	tened	, or Er	ndange	ered S	pecies	<u>i</u>							
□ No		□ Yes	Sp	ecies	& Evic	dence															
<b>X</b> Unde	etermine	b																			
				<u>N</u>	otes (	includ	e wea	ther, s	site ac	cess is	sues,	culver	ts, etc	<u>:.)</u>							
Intermittent str	eam/road	dside di	tch/w	etlan	d: shai	rp 90°	turn														
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Sketch (Optional)																			= = = = = = = = = = = = = = = = = = =		
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Project Name	Excelsior					Date	05/29/	2019				
Project Number	328808				Evalua	ted By	JDV					
Address	02000				_							
USGS Quadrang	le(s): Byron, N	ΙΥ										
Stream Delineation	on ID S-JDV-01		Stream N	Name Sp	ring Creek							
	Stream Loca	ation N	orth of Cod	chran Road								
(e.g. ne	arest road, struc											
Presumed Regulatory	Authority	Inte	ermittent flo	NA/								
U.S. Army Corps	<i>Ratio</i> □ State	onale:	ermittent no	) W								
Stream Class	<u>C</u>	bserved Hy	drology				Wi	dth (ft	.) acros	s Existing	Water 14	
Perennial	Flow □ Dry	y 🗆 Lov	w XM	oderate	Floor	d Plain	Yes,	Meas	ure Ba	nkfull Wid	th (ft.)	
☐ Intermittent	Stage □ Hig	gh 🗆 Flo	ood		Pr	esent?	□ No, Me	asure	Top of	Bank Wid	th (ft.)18	
☐ Ephemeral			Width	(ft.) acros	s Ordi	nary Hi	gh Water	Mark* <u>15</u>				
☐ Undetermined			<u>*Or</u>	dinary Hig	gh Wa	ter Ma	rk Indicato	<u>ors</u>				
Streambed Su	<u>ıbstrate</u>	<u>Chanı</u>	nel Gradient	<u>t</u>	Natur	al Line Im	pressed o	n Ban	k	☐ Scour	□ Wrack	
☐ Shale Shale	and	<2% (	<1°) Gentle		☐ Matte	ed, bent, c	or Absent	Veget	ation	□ Water	<sup>-</sup> Staining	
☐ Bedrock ☐ C	Organic	□ 2 - 4%	6 (1 - 2°) Мо	derate	☐ Soil Cl	haracter (	Change			☐ Shelvi	ng	
☐ Boulders 💢 C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terres	strial Vege	etation De	estroye	ed	Bed &	Banks	
☐ Silt ☐ C	lay	□ >10%	(>6°) Very S	Steep	☐ Distur	bed/Was	hed-away	Leaf I	Litter	☐ Litter	& Debris	
□ Other					☐ Plant Community Change ☐ Sediment Sorting							
	Observed	<u>Use</u>			☐ Multi <sub>l</sub>	ole Obser	ved Flow	Events	5	□ Depos	sition	
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	า			<u>V</u>	<u> Vater</u>	Quality	<u>′</u>		
☐ Fishing ☐ Dra	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear	☐ Turbi	d	☐ Slig	ghtly Tu	urbid	☐ Very Turbid	
□ Other					Comment	s						
<u>Ba</u>	nk Slope		Left*	Right*	<u>Ban</u>	k Height (	<u>ft.)</u>		<u>Bar</u>	nk Erosion	<u>Potential</u>	
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping				Left*	2			Left*	Right*	
8 - 15% (5 - 9°)	Moderately Slopi	ng				Right*	1.75		Low	<b>A A</b>		
15 - 25% (9 - 14°)	Steeply Sloping		20	20				Mod	lerate _	×	×	
25 - 35% (14 - 20°) Steep					-	ion when	_		High -			
>35% (>20°) Very Steep					downstream							
	Bank Substrate  Gravel Scitt/Glave Grabble Gravetic Verse										anopy Closure	
	Silt/Clay	☐ Cobble		tic Vegetati		☐ Mu				- 10%	□ 50 - 60%	
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	XX	hanging Veg	getation	San				) - 20%	□ 60 - 70%	
Other			•	rcut Banks		* *	le - Pool			0 - 30%	□ 70 - 80%	
Comments Gravel Bar						Plu	nge Pools		~ ~	0 - 40%	□ 80 - 90%	
	☐ Other								⊔ 40	) - 50%	□90 - 100%	



	Stream Delineation ID S-JDV-1 Adjacent Community Type Scrub/Shrub													
Adjacent Community T	ype Scrub/Shrub	)												
Percent Cover	Dominant Spe	<u>ecies</u>												
Trees <u>15</u>	Aspen, ma	ple, willow												
Shrubs 65	Salix, dogw	vood												
Herbaceous <u>20</u>		tard, goldenrod,												
Woody Vines														
Bare Soil/Rock	Туре													
Impervious	Туре													
		<u>Observe</u>	ed Fauna											
☐ Waterfowl	Fish	$\square$ Salamanders	☐ Mink	☐ Other										
☐ Snakes	Frogs	Beaver	☐ Otter											
☐ Turtles	☐ Toads	☐ Muskrat	☐ Invertebrates	; 										
Presence of Rare, Threatened, or Endangered Species														
□ No □ Yes Species & Evidence														
Undetermined														
	Not	es (include weather, site	access issues, culve	erts, etc.)										
_														
Continuation of Spring Cree	k from JDV day 2;	no bridge; beaver activit	ies obstructed.											
Sketch (Optional)														



Project Name	Excelsior				Date	05/31/	2019					
Project Number	328808				Evaluated By	JDV						
Address												
USGS Quadrang	le(s): Byron, N	ΙΥ										
Stream Delineation	on ID S-JDV-05	)	Stream N	Name UN	IT to Spring Creek							
	Stream Loca	ation N	orth of Cod	chran Road								
(e.g. ne	arest road, struc											
Presumed Regulatory		Inte	ermittent flo	)\\\								
U.S. Army Corps	<i>Ratio</i> □ State	onale:	erinittent ne	, , , , , , , , , , , , , , , , , , ,								
Stream Class	<u>C</u>	bserved Hy	drology			Wie	dth (ft	.) acros	ss Existing	Water 2		
☐ Perennial	Flow □ Dr	y XLov	w 🗆 Mo	oderate	Flood Plain	□ Yes,	Meas	sure Ba	nkfull Wid	th (ft.)		
Intermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Present?	No, Me	easure	Top of	Bank Wid	th (ft.)6		
☐ Ephemeral	Flow Direction		Width	(ft.) acros	s Ordi	nary Hi	gh Water	Mark*4.5				
☐ Undetermined	Average Depth		<u>*0</u>	rdinary Hig	gh Wa	ter Ma	rk Indicato	<u>ors</u>				
Streambed Su	<u>ıbstrate</u>	<u>t</u>	☐ Natural Line In	npressed o	n Ban	k	Scour	☐ Wrack				
☐ Shale ☐ Sa	and	<2% (	<1°) Gentle		☐ Matted, bent,	or Absent	Veget	ation	□ Water	Staining		
☐ Bedrock ☐ O	Organic	□ 2 - 4%	s (1 - 2°) Mo	derate	Soil Character	Change			☐ Shelvi	ng		
☐ Boulders ☐ C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestrial Veg	etation De	estroy	ed	□ Bed &	Banks		
<b>Silt</b> □ C	lay	□ >10%	(>6°) Very 5	Steep	Disturbed/Wa	shed-away	Leaf I	Litter	☐ Litter	& Debris		
□ Other —————					☐ Plant Community Change ☐ Sediment Sorting							
	<u>Observed</u>	<u>Use</u>			☐ Multiple Obse	rved Flow	Events	5	□ Depos	ition		
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า		<u>V</u>	<u> Vater</u>	Quality	<u>L</u>			
☐ Fishing ☐ Dra	ainage 🗆 Dr	inking	☐ Aquacult	ture	□ Clear <b>T</b> urb	oid	☐ Sli	ghtly Tu	urbid	☐ Very Turbid		
□ Other					Comments							
Ba	nk Slope		Left*	Right*	Bank Height	(ft.)		<u>Bar</u>	nk Erosion	Potential		
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			Left*	1			Left*	Right*		
8 - 15% (5 - 9°)	Moderately Slopi	ng	15	15	Right*	1		Low				
15 - 25% (9 - 14°)	Steeply Sloping						Mod	derate -	×	×		
25 - 35% (14 - 20°) Steep					* Direction wher	-		High -				
>35% (>20°)		downstream										
<u>Bank</u>	<u>Substrate</u>			<u>A</u>	<u>quatic Habitat</u>			<u>Es</u>	timated C	anopy Closure		
☐ Shale ☐ Gravel	☐ Silt/Clay	☐ Cobble		tic Vegetati		ud Bar		□0	- 10%	□ 50 - 60%		
☐ Bedrock ☐ Sand	☐ Riprap	Organic	Overl	hanging Veg		nd Bar		□ 10	0 - 20%	□ 60 - 70%		
□ Other				rcut Banks	□ Rif	fle - Pool		□ 20	0 - 30%	□ 70 - 80%		
Comments Muck/Lea	af Litter	el Bar	□ Plu	inge Pools			) - 40%	□ 80 - 90%				
			r 				40	0 - 50%	□90 - 100%			



													Strea	am De	lineati	on ID	S-JI	DV-6			
Adjacent Co	ommunit	у Туре	Shru	uby																	
Percent (	Cover		Domi	nant S	Specie	<u>s</u>															
Trees	5		As	pen																	
Shrubs	55		Sal	lix, do	gwood	d, elde	rberry	/													
Herbaceous	40	_			grass,																
Woody Vines																					
Bare Soil/Rock		_	Туре																		
Impervious —		_	Туре																		
								Obse	rved F	auna											
□ Wate	erfowl		☐ Fis	h		☐ Sal	aman	ders		□ Mi	nk			□ Ot	her						
☐ Snak	es		□Fro	gs		□Ве	aver			□ Ot	ter										
☐ Turtle	es		□Тоа	ads		□Мι	uskrat			□ Inv	erteb	rates									
					Prese	nce of	Rare,	Threa	tened	, or Er	ndange	ered S	pecies	<u> </u>							
□ No		□ Yes	Sp	oecies	& Evic	dence															
□ Unde	etermine	d																			
				<u>N</u>	lotes (	includ	e wea	ther, s	site ac	cess is	sues,	culver	ts, etc	:. <u>)</u>							
Low quality stre	am dana	salv vad	rotato																		
Low quality stre	am, dens	sery veg	getate	<u>u</u>																	
Sketch (Optional)					= = = = = = = = = =	= = = = = = = = =	= = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =	= = = = = = = = =										= = = = = = = = = = = = = = = = = = =		
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Project Name	Excelsior				Date	05/31/	2019						
Project Number	328808		Evaluated By	JDV									
Address	02000												
USGS Quadrang	(le(s): Byron, N	IY											
Stream Delineati	on ID S-JDV-6		Stream N	Name UN	IT to Spring Creek								
	Stream Loca	ation											
(e.g. ne	arest road, struc	ture)											
Presumed Regulatory	Authority												
U.S. Army Corps	<i>Ratio</i> □ State	nale:											
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) acros	s Existing	Water 1.5			
☐ Perennial	Flow □ Dr	y XLov	w 🗆 Mo	oderate	Flood Plain	□ Yes,	, Meas	ure Ba	nkfull Wid	th (ft.)			
Intermittent	Stage □ Hig	gh 🗆 Flo	od		Present?	No, Me	easure	Top of	Bank Wid	lth (ft.)8			
☐ Ephemeral	- INL						s Ordi	nary Hi	gh Water	Mark*4			
☐ Undetermined		<u>*(</u>	Ordinary Hig	gh Wa	ter Ma	rk Indicato	<u>ors</u>						
Streambed Su	<u>ubstrate</u>	<u>t</u>	☐ Natural Line I	mpressed c	n Ban	k	☐ Scour	☐ Wrack					
☐ Shale ☐ S	and	<2% (	<1°) Gentle		☐ Matted, bent,	or Absent	Veget	ation	□ Water	r Staining			
☐ Bedrock ☐ C	Organic	□ 2 - 4%	и́ (1 - 2°) Мо	derate	☐ Soil Character	Change			☐ Shelvi	ng			
☐ Boulders 💢	Cobble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestrial Ve	getation De	estroy	ed	□ Bed &	. Banks			
□ Silt □ C	Clay	□ >10%	(>6°) Very 5	Steep	☐ Disturbed/Wa	ashed-away	Leaf	Litter	☐ Litter	& Debris			
□ Other					☐ Plant Community Change ☐ Sediment Sorting								
	Observed	<u>Use</u>			☐ Multiple Obse	erved Flow	Events	5	□ Depos	sition			
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	า		7	<u> Water</u>	Quality	<u>′</u>				
☐ Fishing ☐ Dra	ainage 🗆 Dri	nking	☐ Aquacult	ture	□ Clear □ Tur	bid	□ Sli	ghtly Tu	urbid	☐ Very Turbid			
☐ Other					Comments								
<u>Ba</u>	nk Slope		Left*	Right*	Bank Height	t (ft.)		<u>Bar</u>	nk Erosion	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			Left*	0.75			Left*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng			Right*	0.75		Low					
15 - 25% (9 - 14°)	Steeply Sloping				_		Mod	derate _	×	×			
25 - 35% (14 - 20°) Steep 30 30					* Direction whe	, ,		High _					
>35% (>20°)		downstream											
	<u>Substrate</u>			<u>A</u>	<u>quatic Habitat</u>			<u>Es</u>	timated C	Canopy Closure			
☐ Shale ☐ Gravel	Silt/Clay	☐ Cobble	□ Aqua	tic Vegetati		lud Bar		□0.	- 10%	□ 50 - 60%			
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		hanging Veg		and Bar			) - 20%	□ 60 - 70%			
Other —				rcut Banks		ffle - Pool			) - 30%	□ 70 - 80% •••			
Comments	Comments Gravel Bar □ Other					unge Pools			) - 40%	80 - 90%			
		r 				□ 40	) - 50%	□90 - 100%					



			Strea	m Delineation ID	9-104-6	
Adjacent Community Type	e Forested					
Percent Cover	Dominant Spec	<u>ies</u>				
Trees <u>100</u>	Red Maple					
Shrubs 						
Herbaceous —————						
Woody Vines						
Bare Soil/Rock	Туре					
Impervious	Туре					
		Observe	ed Fauna			
☐ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	□ Other		
☐ Snakes	□Frogs	☐ Beaver	□ Otter			
☐ Turtles	□ Toads	☐ Muskrat	☐ Invertebrates			
	<u>Pres</u>	sence of Rare, Threate				
□ No □ Ye	es Species & Ev	vidence				
Undetermined						
	Notes	s (include weather, site	access issues, culverts, etc.	7		
Barely within the parcel.						
- : :						
Sketch (Optional)						
			0			g
					70	20



Project Name	Excelsior				D	ate06/14/	2019			
Project Number	328808				Evaluated	l By JJB				
Address					_					
USGS Quadrang	le(s): Byron, N	IY								
Stream Delineation	on ID S-JJB-15		Stream N	Name N	/A					
	Stream Loca	ation								
(e.g. ne	arest road, struc	ture)								
Presumed Regulatory	<u>Authority</u>	IN	IT, connects	to Black Cre	ack					
U.S. Army Corps	Ratio □ State	onale:	ir, connects	to black cre	SEK .					
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) acros	s Existing	Water 1
☐ Perennial	Flow □ Dr	y XLo	w 🗆 Mo	oderate	Flood Pi	lain □ Yes	, Meas	sure Bai	nkfull Wid	th (ft.)
Intermittent	Stage 🗆 Hig	gh 🗆 Flo	ood		Prese	nt? XNo, Me	easure	Top of	Bank Wid	th (ft.) 3.5
☐ Ephemeral	Flow Direction	SE			\	Width (ft.) acros	s Ordi	nary Hi	gh Water	Mark*3
☐ Undetermined	Average Depth			*Ordinary Hi	gh Wa	ter Mai	rk Indicato	<u>ors</u>		
Streambed Su	<u>ıbstrate</u>	<u> </u>	☐ Natural L	ine Impressed o	on Ban	k	cour	☐ Wrack		
☐ Shale ☐ Sa	and	□ <2% (	(<1°) Gentle		□ Matted,	bent, or Absent	Veget	ation	□ Water	Staining
☐ Bedrock ☐ C	rganic	□ 2 - 4%	% (1 - 2°) Мо	derate	☐ Soil Char	acter Change			☐ Shelvi	ng
☐ Boulders 💢 C	obble/Gravel	4 - 10	)% (2 - 6°) St	eep	☐ Terrestria	al Vegetation De	estroy	ed	Bed &	Banks
☐ Silt ☐ C	lay	□ >10%	5 (>6°) Very S	Steep	□ Disturbe	d/Washed-away	/ Leaf I	Litter	Litter	& Debris
□ Other					☐ Plant Cor	mmunity Change	e		☐ Sedim	ent Sorting
	Observed	<u>Use</u>			☐ Multiple	Observed Flow	Events	5	□ Depos	ition
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า		7	<u> Water</u>	Quality	<u>'</u>	
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dr	inking	☐ Aquacult	ture	Clear 🗆	] Turbid	□ Sli	ghtly Tu	ırbid	☐ Very Turbid
□ Other					Comments					
Ba	nk Slope		Left*	Right*	Bank H	eight (ft.)		<u>Ban</u>	nk Erosion	Potential
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			L	eft* <u>1</u>			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng		×	Rig	tht*1		Low	×	×
15 - 25% (9 - 14°)	Steeply Sloping						Mod	derate _		
25 - 35% (14 - 20°)		* Direction when facing High								
>35% (>20°)		downstream								
	<u>Substrate</u>	_	<u>quatic Habitat</u>					anopy Closure		
		Cobble		tic Vegetati		☐ Mud Bar		□0-		□ 50 - 60%
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		nanging Veg		☐ Sand Bar			) - 20%	□ 60 - 70%
Other			-	rcut Banks		☐ Riffle - Pool		* *	- 30%	□ 70 - 80%
Comments	☐ Gravel Bar					☐ Plunge Pools			- 40%	□ 80 - 90% □90 - 100%
			☐ Othei		40 - 50%					



Stream Delineation ID S-JJB-15

Percent Cover   Ash, Bitternut, Sugar Maple	Adjacent Communi	Adjacent Community Type Upland, Forest												
Shrubs Herbaceous Woody Vines Bare Soil/Rock Impervious Type    Materfowl	Percent Cover	Dominant	<u>Dominant Species</u>											
Herbaceous  Woody Vines  Bare Soil/Rock  Impervious  Type   Observed Fauna    Waterfowl   Fish   Salamanders   Mink   Other   Snakes   Frogs   Beaver   Otter   Turtles	Trees 45	Ash, Bitt	ernut, Sugar Mapl	e										
Woody Vines Bare Soil/Rock Impervious Type    Observed Fauna	Shrubs													
Bare Soil/Rock	Herbaceous													
Impervious    Observed Fauna   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other	Woody Vines													
Observed Fauna  Waterfowl   Fish   Salamanders   Mink   Other   Snakes   Frogs   Beaver   Otter   Turtles   Toads   Muskrat   Invertebrates  Presence of Rare, Threatened, or Endangered Species   No   Yes   Species & Evidence     Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	Bare Soil/Rock	Туре												
Waterfowl Fish Salamanders Mink Other   Snakes Frogs Beaver Otter   Turtles Toads Muskrat Invertebrates    Presence of Rare, Threatened, or Endangered Species  One Yes Species & Evidence Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	Impervious	Туре												
Snakes				Observed	<u>Fauna</u>									
Turtles  Presence of Rare, Threatened, or Endangered Species  No Yes Species & Evidence Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	☐ Waterfowl	☐ Fish	☐ Salamaı	nders	☐ Mink	□ Ot	her							
Presence of Rare, Threatened, or Endangered Species  No Yes Species & Evidence Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	☐ Snakes	□Frogs	☐ Beaver		□ Otter									
□ No □ Yes Species & Evidence □ Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	□ Turtles	Toads	☐ Muskra	t	☐ Invertebra	tes								
Undetermined  Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).			Presence of Rare	, Threatene	d, or Endanger	ed Species								
Notes (include weather, site access issues, culverts, etc.)  Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	□ No	☐ Yes Species	s & Evidence											
Stream starts at drain tile outlet from adjacent ag field, drains to S-JJB-05 (Black Creek).	☐ Undetermine	ed												
		<u></u>	Notes (include we	ather, site a	ccess issues, cu	ulverts, etc.)								
	Stream starts at drain ti	le outlet from adia	ncent ag field drai	ns to S-IIB-O	5 (Black Creek)	<b>\</b>								
Sketch (Optional)	Stream starts at aran ti	ne outlee from daja	icent ug neru, urun	113 (0 3 33 0	5 (Black Creek)	•								
Sketch (Optional)														
Sketch (Optional)														
	Sketch (Optional)													
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Project Name	Excelsior					Date	06/12/	2019				
Project Number	328808				Evaluate	ed By	JJB					
Address					-							
USGS Quadrang	le(s): Byron, N	ΙΥ										
Stream Delineation	on ID S-JJB-14		/A									
	Stream Loca	ation										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory		Cc	onnects to w	etland								
U.S. Army Corps	Ratio □ State	onale: ———	minects to w	ctiana								
Stream Class	<u>C</u>	drology			Wie	dth (ft.	.) acros	s Existing	Water 2			
☐ Perennial	Flow □ Dr	Flood Plain										
☐ Intermittent  Stage ☐ High ☐ Flood  Present? No, Measure Top of Bank										Bank Wid	th (ft.)4	
Ephemeral	Width (ft.) across Ordinary High Water Mark* 3											
☐ Undetermined Average Depth 0.5-mostly dry *Ordinary High Water Mark Indicators												
Streambed Su	☐ Natural Line Impressed on Bank Scour ☐ Wrack											
☐ Shale ☐ S	and		☐ Matted, bent, or Absent Vegetation ☐ Water Staining									
☐ Bedrock ☐ C	Organic Organic	derate	☐ Soil Cha	aracter C	hange			☐ Shelvii	ng			
☐ Boulders ☐ C	obble/Gravel	% (2 - 6°) St	☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks									
Silt	Disturb	ed/Wash	ned-away	Leaf L	itter	Litter	& Debris					
□ Other ————	☐ Plant Community Change ☐ Sediment Sorting											
	<u>Observed</u>	Use			☐ Multiple Observed Flow Events ☐ Deposition							
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า	Water Quality							
☐ Fishing <b>&gt;</b>	ture	□ Clear	☐ Turbio	d .	Slig	thtly Tu	ırbid	☐ Very Turbid				
☐ Other					Comments							
<u>Ba</u>	nk Slope		Left*	Right*	<u>Bank</u>	Height (f	<u>t.)</u>		Ban	nk Erosion	<u>Potential</u>	
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			_	Left*	1.5			Left*	Right*	
8 - 15% (5 - 9°)	Moderately Slopi	ng	$\sim$	×	- F	Right* —	1.5		Low			
15 - 25% (9 - 14°)	Steeply Sloping							Mod	erate –	<b>A A</b>		
25 - 35% (14 - 20°)	Steep				* Direction	•	•		High _	×	×	
>35% (>20°)	Very Steep				aov	vnstream						
Bank	Aquatic Habitat Estimated Cano											
☐ Shale ☐ Gravel	·	tic Vegetati						- 10%	□ 50 - 60%			
☐ Bedrock ☐ Sand	□ Riprap	☐ Organic		nanging Veg	getation	□ Sand			* *	0 - 20%	□ 60 - 70%	
Other Ditch/E	rcut Banks	<ul> <li>□ Riffle - Pool</li> <li>□ 20 - 30%</li> <li>□ Plunge Pools</li> <li>□ 30 - 40%</li> </ul>					□ 70 - 80%					
Comments	Comments ☐ Gravel Bar ☐ Other									0 - 40%	□ 80 - 90%	
	□ 40 - 50%						□90 - 100%					



Stream Delineation ID S-JJB-15

Adjacent	Commur	nity Type	L	awn, A	Ag Fiel	d															
<u>Percer</u>	Dominant Species																				
Trees	Trees 15 Eastern Cottonwood																				
Shrubs																					
Herbaceous																					
Woody Vines	ody Vines																				
Bare Soil/Rock			Туре																		
Impervious			Туре																		
								Obse	erved I	- auna											
□ Wa		☐ Fish			$\square$ Salamanders				☐ Mink				□ Other								
□ Sn	☐ Snakes			□Frogs □ Beaver					□ Otter												
□Tu	rtles		□То	ads		□М	uskrat			□ Inv	verteb	rates									
					Prese	nce of	Rare,	Threa	atened	l, or Er	ndang	ered S	pecies	<u> </u>							
No	)	□ Ye	s Sį	pecies	& Evid	dence															
□Un	determir	ned																			
				<u>N</u>	lotes (	includ	e wea	ther,	site ac	cess is	ssues,	culve	ts, etc	c. <u>)</u>							
Ditch/stream	starts clo	osed. flov	ws into	o PEM	wetla	nd.															
2.00.700.00																					
Sketch (Optional)														= = = = = = = = = = = = = = = = = = =							
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Project Name	Excelsior				Date	e 06/11/	2019					
Project Number	328808				Evaluated B	y JJB						
Address	323333				_							
USGS Quadrang	le(s): Byron N	ıv										
_		N Y	Chun a un N									
Stream Delineation	S-JJB-13		Stream N	name N	I/A							
	Stream Loca	ation ——										
(e.g. ne	arest road, struc	ture)										
Presumed Regulatory	Authority	IN	T, flows into	. ID wetlan	4							
U.S. Army Corps	Ratio □ State	onale: ———	1, 110 W3 111tc	TID WELIAM	-							
Stream Class	<u>C</u>	bserved Hy	drology			W	dth (ft	) acros	s Existing	Water3		
☐ Perennial	Flow □ Dr	w 🗆 Mo	Flood Plain Yes, Measure Bankfull Width (ft.)									
Intermittent Stage ☐ High ☐ Flood Present? No, Measure Top of Bank									Bank Wid	th (ft.)7		
☐ Ephemeral	Flow Direction	SE		Width (ft.) across Ordinary High Water Mark*5								
☐ Undetermined Average Depth 1 *Ordinary High Water Mark Indicators										_		
Streambed Su	<u>ıbstrate</u>	<u>:</u>	☐ Natural Line Impressed on Bank									
☐ Shale ☐ Sa	and	☐ Matted, bent, or Absent Vegetation ☐ Water Staining										
☐ Bedrock ☐ C	rganic	□ 2 - 49	derate	☐ Soil Charact	er Change			☐ Shelvii	ng			
☐ Boulders ☐ C	☐ Terrestrial Vegetation Destroyed ☐ Bed & Banks ☐ Disturbed/Washed-away Leaf Litter ★ Litter & Debris											
Silt	lay	□ >10%	(>6°) Very S	Steep				•				
Other					Plant Comm	nunity Chang	e		☐ Sedim	ent Sorting		
	<u>Observed</u>	<u>Use</u>			☐ Multiple Observed Flow Events ☐ Deposition							
☐ Boating ☐ She	1				Quality							
<b>*</b> *	ainage □ Dr	inking	☐ Aquacult	ture	*	urbid	□ Sli	ghtly Tu	ırbid	☐ Very Turbid		
Other					Comments		T					
	nk Slope		Left*	Right*	Bank Heig			<u>Ban</u>	k Erosion			
	Nearly Level - Ge				Left				Left*	Right*		
	Moderately Slopi	ng			Right	* 4	l	Low				
15 - 25% (9 - 14°)			•	<b>\</b>			Mod	derate _	×	<b>*</b>		
25 - 35% (14 - 20°)	•		<b>X</b>	×	* Direction wi downsti	, ,		High _				
>35% (>20°)			<u> </u>						L'arakad C	Classical Classical		
	Substrate Silt/Clay	<u>4</u> tic Vegetati	Aquatic Habitat	Mud Bar		<u>ES</u>		anopy Closure ☐ 50 - 60%				
☐ Bedrock ☐ Sand			Sand Bar			) - 20%	□ 60 - 70%					
☐ Other							□ Riffle - Pool					
Comments	el Bar						□ 70 - 80% □ 80 - 90%					
			☐ Other		_	J- : 55%		<b>*</b> *	- 50%	□90 - 100%		
								<u> </u>				



Adjacent Community Type PFO Wetland													
Percent Cover	Dominant Spe	cies											
Trees 45	Ash, Bucktho	orne											
Shrubs													
Herbaceous													
Woody Vines	_												
Bare Soil/Rock	Туре												
Impervious	Туре												
		Obs	served Fauna										
☐ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	☐ Other									
☐ Snakes	Frogs	☐ Beaver	☐ Otter										
☐ Turtles	☐ Toads	☐ Muskrat	☐ Invertebrates										
Presence of Rare, Threatened, or Endangered Species													
□ No □ Yes Species & Evidence													
□ Undetermined													
Notes (include weather, site access issues, culverts, etc.)													
Flows into W-JJB-31, fed													
Flows lilto W-JJB-51, lea	Dy W-11B-32.												
Sketch (Optional)													
				0									
	10000000000000000000000000000000000000												



Project Name	Excelsior				Dat	e06/13/	2019			
Project Number	328808				Evaluated B	у ЈЈВ				
Address					_					
USGS Quadrang	le(s): Byron, N	١Y								
Stream Delineati	on ID S-JJB-12		Stream N	Name B	igelow Creek					
	Stream Loca	ation								
(e.g. ne	arest road, struc	cture)								
Presumed Regulatory	<u>Authority</u>		rge named s	stroam						
U.S. Army Corps	<i>Ratio</i> □ State	onale:	rge nameu s	stream						
Stream Class	<u>C</u>	bserved Hy	drology			W	idth (ft	) acros	s Existing	Water 16
Perennial	Flow □ Dr	y 🗆 Lov		oderate	Flood Plai	n □ Yes	, Meas	sure Bar	nkfull Wid	th (ft.)
☐ Intermittent	Stage ☐ Hig	gh 🗆 Flo	od To	High	Present	? <b>X</b> No, M	easure	Top of	Bank Wid	lth (ft.)20
☐ Ephemeral	Flow Direction				Wi	dth (ft.) acros	ss Ordi	nary Hi	gh Water	Mark*18
☐ Undetermined	Average Depth	1 foot				*Ordinary Hi	gh Wa	<u>ıter Mai</u>	rk Indicato	<u>ors</u>
Streambed Su	<u>ubstrate</u>	<u>Chanı</u>	nel Gradient	<u>t</u>	☐ Natural Line	e Impressed (	on Ban	k	☐ Scour	☐ Wrack
☐ Shale ☐ S	and	□ <2% (	<1°) Gentle		☐ Matted, be	nt, or Absent	Veget	ation	□ Water	Staining
☐ Bedrock ☐ C	Organic	2 - 4%	ś (1 - 2°) Mo	derate	☐ Soil Charac	ter Change			☐ Shelvi	ng
☐ Boulders <b>X</b> C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestrial `	Vegetation D	estroy	ed	Bed &	Banks
□ Silt □ C	lay	□ >10%	(>6°) Very 5	Steep	☐ Disturbed/\	Washed-awa	y Leaf I	Litter	☐ Litter	& Debris
Other					☐ Plant Comn	nunity Chang	e		Sedim	ent Sorting
	<u>Observed</u>	Use			☐ Multiple Ob	served Flow	Events	S	□ Depos	sition
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า		:	Water	Quality	•	
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear 🗆 T	urbid	□ Sli	ghtly Tu	ırbid	☐ Very Turbid
Other					Comments					
<u>Ba</u>	nk Slope		Left*	Right*	<u>Bank Hei</u> g	ght (ft.)		<u>Ban</u>	k Erosion	<u>Potential</u>
	Nearly Level - Ge				Left	2.5			Left*	Right*
	Moderately Slopi	ng	×	×	Right	*3		Low _	×	×
15 - 25% (9 - 14°)					_		Mod	derate –		
25 - 35% (14 - 20°)					* Direction w downst	, ,		High _		
>35% (>20°)										
	<u>Substrate</u>	□ Calciu	<b>\</b>		aquatic Habitat	NAME DE				anopy Closure
	Silt/Clay	□ Cobble		tic Vegetati		Mud Bar		□ 0 -		□ 50 - 60%
☐ Bedrock ☐ Sand ☐ Other	□ Riprap	☐ Organic		hanging Veg ercut Banks		Sand Bar Riffle - Pool			- 20% - 30%	□ 60 - 70% □ 70 - 80%
Comments			☐ Grave			Plunge Pools	:	<b>*</b> *	- 40%	□ 70 - 80% □ 80 - 90%
			Othe		ver Dams	Tidlige Fools	,		- 50%	□ 80 - 90% □90 - 100%
			Other	·	vei Dallis			ļ <sup></sup> ,	3370	



Adjacent Community Type													
Percent Cover	Dominant Spe	<u>cies</u>											
Trees 20	Green Ash, V	Willow											
Shrubs 20	Dogwood, H	loneysuckle											
Herbaceous													
Woody Vines													
Bare Soil/Rock	Туре												
Impervious	Туре												
		<u>Obse</u>	erved Fauna										
Waterfowl	Fish	☐ Salamanders	☐ Mink	☐ Other									
☐ Snakes	Frogs	Beaver	☐ Otter										
Turtles													
Presence of Rare, Threatened, or Endangered Species													
	Yes <i>Species</i> & E	Evidence											
Undetermined													
	Note	es (include weather, s	site access issues, culve	erts, etc.)									
Large stream (Bigelow Creek	k), beaver dams to	the south west, bec	omes PUB/PEM wetlan	nd (W-JJB-31), end	s open in								
					·								
NE, Corners to wetland in SV													
NE, Corners to wetland in SV													
NE, Corners to wetland in SV													
NE, Corners to wetland in SV  Sketch (Optional)	### **********************************				# # # # # # # # # # # # # # # # # # #								



Project Name	Excelsior					Date 06	/11/2019						
Project Number	328808				Evalua	ted By JJE	3						
Address					_								
USGS Quadrang	gle(s): Byron, N	ΙΥ											
Stream Delineati	on ID S-JJB-11		Stream N	Name N	/A								
	Stream Loca	ation	-										
(e.g. ne	earest road, struc	ture)											
Presumed Regulatory	Authority	Do	erennial, flov	us off sito									
U.S. Army Corps	<i>Ratio</i> □ State	onale:	erenniai, nov	ws on site									
Stream Class	<u>C</u>	bserved Hy	drology				Width (ft	t.) across Existin	g Water2				
Perennial	Flow Dry		w XM	oderate	Flood Plain								
☐ Intermittent	Stage Hig	gh 🗆 Flo	ood		Present? No, Measure Top of Bank Width (ft.) 3.5								
☐ Ephemeral Flow Direction NE Width (ft.) across Ordinary High Water Mark*													
☐ Undetermined													
Streambed Su	<u>ubstrate</u>	<u>Chan</u>	nel Gradient	<u>t</u>	□ Natur	al Line Impres	sed on Ban	ık 🗆 Scou	r 🗆 Wrack				
☐ Shale ☐ S	and	<2% (	(<1°) Gentle	Matted, bent, or Absent Vegetation   Water Staining									
☐ Bedrock ☐ C	Organic	□ 2 - 49	% (1 - 2°) Мо	derate	☐ Soil Character Change ☐ Shelving								
☐ Boulders ☐ C	Cobble/Gravel	□ 4 - 10	)% (2 - 6°) St	eep	☐ Terres	strial Vegetati	on Destroy	ed Bed	& Banks				
<b>X</b> Silt □ C	Clay	□ >10%	5 (>6°) Very S	Steep	Distur	bed/Washed-	away Leaf	Litter <b>X</b> Litte	r & Debris				
□ Other ————					☐ Plant	Community Cl	nange	☐ Sedii	ment Sorting				
	<u>Observed</u>	<u>Use</u>			☐ Multip	ole Observed I	low Event	s 🗆 Depo	osition				
☐ Boating ☐ Sh	ellfishing 🗆 Sw	imming	☐ Irrigation	า			<u>Water</u>	Quality					
☐ Fishing <b>X</b> Dra	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear	☐ Turbid	☐ Sli	ghtly Turbid	☐ Very Turbid				
□ Other					Comments	S							
Ba	ink Slope		Left*	Right*	<u>Ban</u>	k Height (ft.)		Bank Erosio	n Potential				
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping				Left* 2		Left*	Right*				
8 - 15% (5 - 9°)	Moderately Slopi	ng	<b>X</b>	×		Right*3_		Low	×				
15 - 25% (9 - 14°)	Steeply Sloping						Mod	derate 					
25 - 35% (14 - 20°)	Steep				-	ion when facir	ng	High					
>35% (>20°)	Very Steep				do	wnstream							
	<u>k Substrate</u>			<u>A</u>	quatic Hab	<u>itat</u>		<u>Estimated</u>	Canopy Closure				
	Silt/Clay	☐ Cobble	<b>^</b>	tic Vegetati		☐ Mud Ba		□ 0 - 10%	□ 50 - 60%				
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	• •	nanging Veg	etation	☐ Sand Ba		□ 10 - 20% —	□ 60 - 70% —				
Other Mud			-	rcut Banks		☐ Riffle - F		□ 20 - 30%	□ 70 - 80%				
Comments			☐ Grave			☐ Plunge I	Pools	□30 - 40%	□ 80 - 90%				
			☐ Othei	r 				40 - 50%	□90 - 100%				



Adjacent Community Type													
Percent Cover	Dominant Spec	<u>cies</u>											
Trees 20	Quaking Asp	en, Willow, Cottonwoo	od										
Shrubs 20	Ragweed, go	oldenrod, willow, cotto	nwood										
Herbaceous 50	Ragweed, go	oldenrod											
Woody Vines													
Bare Soil/Rock	Туре												
Impervious	Туре												
		<u>Observ</u>	ved Fauna										
☐ Waterfowl	☐ Fish	$\square$ Salamanders	☐ Mink ☐ Ot	her									
☐ Snakes	□Frogs	☐ Beaver	☐ Otter										
☐ Turtles ☐ Toads ☐ Muskrat ☐ Invertebrates ————————————————————————————————————													
Presence of Rare, Threatened, or Endangered Species													
XNO □ Yes Species & Evidence													
☐ Undetermined													
Notes (include weather, site access issues, culverts, etc.)													
Sunny, connects to W-JJI	B-27 and flows offsite												
Janny, comiccio to vi ssi													
Sketch (Optional)													
O. O. O. O. O. O. O. O. O. O. O. O. O. O			0										



Project Name	Excelsior				Date	06/10/	2019							
Project Number	328808				Evaluated By	, JJB								
Address					-									
USGS Quadrang	le(s): Byron, N	IY												
Stream Delineation	on ID S-JJB-10		Stream N	Name										
	Stream Loca	ntion												
(e.g. ne	arest road, struc	ture)												
Presumed Regulatory		, IN	т											
U.S. Army Corps	Ratio □ State	nale: — ''\	'											
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft	.) acros	ss Existing	Water 0				
☐ Perennial	Flow	/ 🗆 Lov	w 🗆 Mo	oderate	Flood Plain	☐ Yes	, Meas	ure Ba	nkfull Wid	th (ft.)				
Intermittent	Stage □ Hig	gh □ Flo	ood		Present? No, Measure Top of Bank Width (ft.) 5									
☐ Ephemeral	nary Hi	igh Water	Mark*4											
☐ Undetermined														
Streambed Su	<u>ıbstrate</u>	<u>Chani</u>	nel Gradient	<u>t</u>	☐ Natural Line	Impressed o	on Ban	k	Scour	Wrack				
☐ Shale ☐ Sa	and	□ <2% (	<1°) Gentle		☐ Matted, ben	t, or Absent	Veget	ation	☐ Water	· Staining				
☐ Bedrock ☐ O	Organic	2 - 4%	% (1 - 2°) Мо	derate	☐ Soil Characte	er Change			☐ Shelvi	ng				
☐ Boulders 💢 C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestrial V	egetation D	estroye	ed	□ Bed &	Banks				
Silt	lay	□ >10%	(>6°) Very S	Steep	☐ Disturbed/W	/ashed-away	, Leaf I	Litter	Litter	& Debris				
□ Other					☐ Plant Comm	unity Chang	e		□ Sedim	ent Sorting				
	Observed	<u>Use</u>			☐ Multiple Ob:	served Flow	Events	5	□ Depos	ition				
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	า		7	Water	Quality	L					
☐ Fishing <b>X</b> pra	ainage 🗆 Dri	nking	☐ Aquacult	ture	□ Clear □ Tu	ırbid	☐ Slig	ghtly To	urbid	☐ Very Turbid				
□ Other					Comments N	/A								
<u>Ba</u>	nk Slope		Left*	Right*	Bank Heig	ht (ft.)		Baı	nk Erosion	<u>Potential</u>				
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			Left*	3			Left*	Right*				
8 - 15% (5 - 9°)	Moderately Slopi	ng	×	×	Right*	4		Low						
15 - 25% (9 - 14°)	Steeply Sloping						Mod	derate -						
25 - 35% (14 - 20°)	Steep				* Direction wh	-		High	×	×				
>35% (>20°)	Very Steep				downstre	eam								
<u>Bank</u>	<u>Substrate</u>			<u>A</u>	quatic Habitat			<u>Es</u>	stimated C	anopy Closure				
☐ Shale ☐ Gravel	Silt/Clay	☐ Cobble	☐ Aqua	tic Vegetati	on 🗆 I	Mud Bar		<b>X</b> 0	- 10%	□ 50 - 60%				
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	□ Overl	nanging Veg	getation 🗆 🖰 S	Sand Bar		□ 10	0 - 20%	□ 60 - 70%				
□ Other			□ Unde	rcut Banks		Riffle - Pool		□ 20	0 - 30%	□ 70 - 80%				
Comments			☐ Grave	el Bar		Plunge Pools	;		0 - 40%	□ 80 - 90%				
			☐ Othe	r 				□ 40	0 - 50%	□90 - 100%				



Adjacent Community	Type Whe	eat Field											
Percent Cover	Domina	ant Species											
Trees													
Shrubs													
Herbaceous 10	Whe	at											
Woody Vines													
Bare Soil/Rock	Туре												
Impervious	Туре												
			<u>Obse</u>	rved Fauna									
☐ Waterfowl	☐ Fish	□ Sa	alamanders	☐ Min	ık	□ Ot	her						
☐ Snakes	□Frogs	s □ B	eaver	□ Otte	er								
☐ Turtles ☐ Toads ☐ Muskrat ☐ Invertebrates ☐													
Presence of Rare, Threatened, or Endangered Species													
□ No □ Yes Species & Evidence													
☐ Undetermined ————————————————————————————————————													
		Notes (inclu	de weather, s	site access iss	sues, culver	ts, etc.)							
Notes (include weather, site access issues, culverts, etc.)  Overflow channel for 59 (underground drain tiles).													
overnow charmer for 35	anacigioana	aram enesy.											
Sketch (Optional)						0 0 0 0 0 0 0 0 0							
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Project Name	Excelsior					Date 06/	10/2019						
Project Number	328808				Evaluat	ed By							
Address					-								
USGS Quadrang	le(s): Byron, N	IY											
Stream Delineation	on ID S-JJB-09		Stream N	Name									
	Stream Loca	ation											
(e.g. ne	arest road, struc	ture)											
Presumed Regulatory	•	Int	termittent										
U.S. Army Corps	Ratio □ State	nale:	termittent										
Stream Class	<u>C</u>	bserved Hy	drology				Width (ft	) across Existing	Water 3				
☐ Perennial	Flow □ Dr	y □ Lov	w <b>M</b> o	oderate	Flood	l Plain 🗆	Yes, Meas	sure Bankfull Wid	th (ft.)				
Intermittent	Stage 🗆 Hig	gh 🗆 Flo	ood		Pre	esent? XNo	, Measure	Top of Bank Wid	lth (ft.)4				
☐ Ephemeral	Flow Direction	SE				Width (ft.) a	cross Ordi	nary High Water	Mark*3				
☐ Undetermined	Average Depth	4 in				<u>*Ordinar</u>	y High Wa	<u>ter Mark Indicato</u>	<u>ors</u>				
Streambed Su	<u>ıbstrate</u>	<u>Chan</u> ı	nel Gradient	<u> </u>	□ Natura	al Line Impress	ed on Ban	k 🗆 Scour	Wrack				
☐ Shale ☐ S	and	□ <2% (	<1°) Gentle		☐ Matted, bent, or Absent Vegetation ☐ Water Staining								
☐ Bedrock ☐ C	rganic	2 - 4%	6 (1 - 2°) Mo	derate	erate								
☐ Boulders 💢 C	obble/Gravel	□ 4 - 10	% (2 - 6°) Sto	eep	☐ Terrestrial Vegetation Destroyed								
<b>X</b> Silt □ C	lay	□ >10%	(>6°) Very S	Steep	☐ Disturbed/Washed-away Leaf Litter ☐ Litter & Debris								
□ Other					☐ Plant C	Community Ch	ange	Sedim	ent Sorting				
	Observed	<u>Use</u>			☐ Multip	le Observed Fl	ow Events	s 🗆 Depos	sition				
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	า			<u>Water</u>	Quality					
☐ Fishing Cora	ainage 🗆 Dri	nking	☐ Aquacult	ture	Clear	☐ Turbid	□ Sli	ghtly Turbid	☐ Very Turbid				
□ Other					Comments	N/A							
Ba	nk Slope		Left*	Right*	Bank	(Height (ft.)		Bank Erosion	<u>Potential</u>				
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping				Left* 1		Left*	Right*				
8 - 15% (5 - 9°)	Moderately Slopi	ng	$\sim$	×	1	Right* 2		Low					
15 - 25% (9 - 14°)	Steeply Sloping						Mod	derate					
25 - 35% (14 - 20°)	Steep				-	on when facing	g	High X	×				
>35% (>20°)	Very Steep				doi	wnstream							
	<u>Substrate</u>			<u>A</u>	quatic Habit	<u>tat</u>		A A	anopy Closure				
	Silt/Clay	☐ Cobble	☐ Aqua	tic Vegetati	on	☐ Mud Bar		0 - 10%	□ 50 - 60%				
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		nanging Veg	etation	☐ Sand Bar		□ 10 - 20%	□ 60 - 70%				
Other —				rcut Banks		☐ Riffle - Po		□ 20 - 30% —	□ 70 - 80% —				
Comments			☐ Grave			☐ Plunge P	ools	□30 - 40%	□ 80 - 90% —				
			☐ Other	r				□ 40 - 50%	□90 - 100%				



Adjacent Community Type Wheat Fields																		
Percent Cover		<u>Dominar</u>	nt Specie	<u>s</u>														
Trees	_																	
Shrubs																		
Herbaceous 5	_																	
Woody Vines																		
Bare Soil/Rock		Туре																
Impervious		Туре																
						Obse	erved f	- auna										
☐ Waterfowl		☐ Fish		□ Sa	laman	ders		□ Mi	nk			□ Ot	her					
☐ Snakes		□Frogs		□Ве	aver			□ Ot	ter									
☐ Turtles ☐ Toads ☐ Muskrat ☐ Invertebrates																		
			Prese	nce of	Rare,	Threa	itened	l, or Er	ndange	ered S	pecies	<u>5</u>						
Presence of Rare, Threatened, or Endangered Species  No   Yes Species & Evidence																		
☐ Undetermine	ed																	
			Notes (	includ	e wea	ther, :	site ac	cess is	ssues,	culver	ts, etc	c. <u>)</u>						
Stream created by drain	tiles o	utletting	in middle	of fie	ld INI	「 ctr⊖2	ım S 1	0 acts	as ov	erflow	chan	nel						
Stream created by drain	i tiles of	utietting	mmaale	or ne	iu, iiv	31168	1111 3 1	.o acts	as 0v	erriow	CHan	nei.						
Sketch (Optional)						= = = = = = = = = = = = = = = = = = =			= = = = = = = = = = = = = = = = = = =			= = = = = = = = = = = = = = = = = = =			= = = = = = = = = = = = = = = = = = =			
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Project Name	Excelsior					Date06/6/2	019						
Project Number	328808				Evaluate	d By JJB							
Address					-								
USGS Quadrang	gle(s): Byron, N	ΙΥ											
Stream Delineation	on ID S-JJB-08		Stream N	Name									
	Stream Loca	ation											
(e.g. ne	arest road, struc	ture)											
Presumed Regulatory		IN	T, flows off	cito									
U.S. Army Corps	<i>Ratio</i> □ State	onale: ———	1, 110W3 011	Site .									
Stream Class	<u>C</u>	bserved Hy	drology			Wi	dth (ft.	) across Ex	kisting V	Vater 2			
☐ Perennial	Flow □ Dr		w Mo	oderate	Flood Plain								
Intermittent	Stage ☐ Hig	gh □ Flo	ood		Present? No, Measure Top of Bank Width (ft.)3								
☐ Ephemeral	Flow Direction	East			-	Width (ft.) acros	s Ordir	nary High V	Nater N	/lark*1.5			
☐ Undetermined													
Streambed Su	<u>ubstrate</u>	<u>Chan</u>	nel Gradient	<u>t</u>	□ Natural	Line Impressed	on Banl	< 💥	Scour	□ Wrack			
☐ Shale ☐ S	and	<2% (	<1°) Gentle		☐ Matted, bent, or Absent Vegetation ☐ Water Staining								
☐ Bedrock ☐ C	Organic	□ 2 - 4%	% (1 - 2°) Мо	derate	☐ Soil Character Change ☐ Shelving								
☐ Boulders 💢 🔾	Cobble/Gravel	□ 4 - 10	% (2 - 6°) St	eep	☐ Terrestr	rial Vegetation D	estroye	ed 💢	Bed & F	Banks			
<b>Silt</b> □ C	Clay	□ >10%	(>6°) Very S	Steep	□ Disturb	ed/Washed-away	/ Leaf L	itter 🗆	Litter 8	Debris			
☐ Other					☐ Plant Co	ommunity Chang	е		Sedime	ent Sorting			
	<u>Observed</u>	Use			☐ Multiple	e Observed Flow	Events		Deposi	tion			
☐ Boating ☐ Sh	ellfishing 🗆 Sw	imming	☐ Irrigation	า		7	Water (	<u>Quality</u>					
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear	□ Turbid	☐ Slig	htly Turbio	d	☐ Very Turbid			
□ Other					Comments	N/A							
<u>Ba</u>	ink Slope		Left*	Right*	<u>B</u> ank	Height (ft.)		Bank Er	rosion F	<u>Potential</u>			
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping	<b>X</b>	×	-	Left* <u>0.5</u>			eft*	Right*			
8 - 15% (5 - 9°)	Moderately Slopi	ng			R	ight* <u>0.5</u>		Low	X	×			
15 - 25% (9 - 14°)					-		Mod	erate ——					
25 - 35% (14 - 20°)	·				-	n when facing		High					
>35% (>20°)	Very Steep	dow	ınstream										
	<u>k Substrate</u>	_			quatic Habita	<del></del>				nopy Closure			
	Silt/Clay	□ Cobble	XX	tic Vegetati		☐ Mud Bar		□ 0 - 109		□ 50 - 60%			
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	* *	nanging Veg	etation	☐ Sand Bar		□ 10 - 20		□ 60 - 70%			
Other				rcut Banks		☐ Riffle - Pool		20 - 30		□ 70 - 80%			
Comments			☐ Grave			☐ Plunge Pools		30 - 40		□ 80 - 90%			
			☐ Othei	r 				□ 40 - 50	U%	□90 - 100%			



Adjacent Community Type Upland forest, ag field ~100ft after																			
<u>Percent</u>	Cover		<u>Domir</u>	nant S	pecie	<u>s</u>													
Trees	15		Gre	en As	h														
Shrubs	30		Hon	eysuc	kle														
Herbaceous –																			
Woody Vines																			
Bare Soil/Rock –		_	Туре																
Impervious –		_	Туре																
								Obse	erved F	auna									
□ Wat	terfowl		☐ Fish	h		☐ Sal	aman	ders		□Mi	nk			□ Ot	her				
☐ Snal	kes	<b>&lt;</b>	Fro	gs		□Ве	aver			□ Ot	ter								
☐ Turtles ☐ Toads ☐ Muskrat ☐ Invertebrates ————————————————————————————————————																			
Presence of Rare, Threatened, or Endangered Species																			
□ No □ Yes Species & Evidence																			
Und	letermined	k																	
				N	otes (	includ	e wea	ther,	site ac	cess is	ssues,	culver	ts, etc	c.)					
Flows off site o	of connecti	ion wit	h W-J[	DV-15	, also	becon	nes ve	rv dif	use.										
					,			,											
Sketch (Optional)																			
									0										
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Project Name	Excelsior					Date	06/6/20	019				
Project Number	328808				Evaluate	ed By	JJB					
Address					-							
USGS Quadrang	le(s): Byron, N	ΙΥ										
Stream Delineation	on ID S-JJB-07		Stream N	Name N	I/A							
	Stream Loca	ation Ne	ar Storowit	z Road								
(e.g. ne	arest road, struc											
Presumed Regulatory		IN.	T, flows to J	D stream								
U.S. Army Corps	Ratio □ State	onale: ———	1, 110W3 to 3	D stream								
Stream Class	<u>C</u>	bserved Hyd	drology				Wid	dth (ft.	.) acros	ss Existing	Water3	
☐ Perennial	Flow □ Dr		w <b>M</b> o	oderate	Flood					nkfull Wid	· · ·	
Intermittent	Stage ☐ Hig	gh 🗆 Flo		Present? No, Measure Top of Bank Width (ft.)								
☐ Ephemeral	Flow Direction	NE				Width (	ft.) acros	s Ordir	nary Hi	igh Water	Mark*4.5	
☐ Undetermined	Average Depth					<u>*Orc</u>	dinary Hig	gh Wat		rk Indicato	<u>ors</u>	
Streambed Su	<u>ıbstrate</u>	<u>Chanr</u>	nel Gradient	<u>t</u>	☐ Natura	Line Imp	oressed o	n Banl	k	Scour	☐ Wrack	
☐ Shale ☐ S	and	□ <2% (	<1°) Gentle		☐ Matted	, bent, o	r Absent	Vegeta	ation	□ Water	Staining	
☐ Bedrock ☐ C	rganic	2 - 4%	s (1 - 2°) Mo	derate	☐ Soil Character Change ☐ Shelving							
☐ Boulders 💢 С	obble/Gravel	□ 4 - 10°	% (2 - 6°) St	eep	☐ Terrest	rial Vege	tation De	estroye	ed	Bed &	Banks	
☐ Silt ☐ C	lay	□ >10%	(>6°) Very S	Steep	☐ Disturb	ed/Wash	ned-away	Leaf L	itter	☐ Litter	& Debris	
□ Other ————					☐ Plant C	ommunit	ty Change	?		☐ Sedim	ent Sorting	
	Observed	<u>Use</u>			☐ Multipl	e Observ	ed Flow	Events		□ Depos	ition	
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	□ Irrigation	า			<u>V</u>	<u>Vater (</u>	Quality	L		
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	inking	☐ Aquacult	ture	□ Clear	☐ Turbio	d	<b>S</b> lig	thtly Tu	urbid	☐ Very Turbid	
□ Other					Comments							
Ba	nk Slope		Left*	Right*	<u>Bank</u>	Height (f	ft. <u>)</u>		<u>Bar</u>	nk Erosion	Potential	
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping				Left*	3			Left*	Right*	
8 - 15% (5 - 9°)	Moderately Slopi	ng			R	ight*	3.5		Low			
15 - 25% (9 - 14°)	×				Mod	erate -	×					
25 - 35% (14 - 20°)		* Direction	•	_		High		×				
>35% (>20°)	Very Steep	-			dov	vnstream	)					
Bank	<u>Substrate</u>			Α	quatic Habit	<u>at</u>			Es	stimated C	anopy Closure	
☐ Shale ☐ Gravel	Silt/Clay	□ Cobble	☐ Aqua	tic Vegetati	on	□ Mud	d Bar		□ 0	- 10%	□ 50 - 60%	
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	☐ Overl	nanging Veg	getation	☐ Sand	d Bar		□ 10	0 - 20%	□ 60 - 70%	
□ Other			□ Unde	rcut Banks		☐ Riffl	e - Pool		□ 20	0 - 30%	□ 70 - 80%	
Comments			☐ Grave	el Bar		☐ Plur	nge Pools		30	0 - 40%	□ 80 - 90%	
			☐ Other	r					□ 40	0 - 50%	□90 - 100%	

<sup>\*</sup> Hydric soil and algal growth present, moderate flow after heavy rain the previous day.



Stream Delineation ID S-JJB-15 Adjacent Community Type Percent Cover **Dominant Species** Trees Shrubs 30 Staghorn Sumac, Green Ash, Box Elder Herbaceous **Woody Vines** Bare Soil/Rock Туре Impervious Туре Observed Fauna ☐ Waterfowl ☐ Fish ☐ Salamanders ☐ Mink ☐ Other ☐ Otter □ Snakes ☐ Beaver □Frogs ☐ Invertebrates ☐ Turtles ☐ Toads ☐ Muskrat Presence of Rare, Threatened, or Endangered Species  $\square$  No ☐ Yes Species & Evidence **X**Undetermined Notes (include weather, site access issues, culverts, etc.) Flows out of culvert on Storowitz Road, Approximately 20ft of Rt 13 impacted by debris (tires, junk, scrap metal), flows into excavated overflow of S-JJB-6. Sketch (Optional)



Project Name	Excelsior					Date	06/6/20	019			
Project Number	328808				Evalua	ted By	JJB				
Address					_						
USGS Quadrang	le(s): Byron, N	IY									
Stream Delineation	on ID S-JJB-06		Stream N	Name							
	Stream Loca	ation BYI	N1053, BYN	N1054							
(e.g. ne	arest road, struc	ture)									
Presumed Regulatory		Pe	rennial, flov	vs off site							
U.S. Army Corps	Ratio □ State	nale: — FE	reminal, nov	vs on site							
Stream Class	<u>C</u>	bserved Hyd	drology				Wid	dth (ft.	.) acros	s Existing	Water <u>16ft</u>
Perennial	Flow □ Dr		w <b>M</b> o	oderate		d Plain	☐ Yes,	Meas	ure Bai	nkfull Wid	lth (ft.)
☐ Intermittent	<i>Stage</i> ☐ Hig	gh 🗆 Flo	od		Pr	resent?	<b>(</b> No, Me	asure	Top of	Bank Wid	th (ft.)24ft_
☐ Ephemeral	Flow Direction	NW				Width (	ft.) acros	s Ordir	nary Hi	gh Water	Mark* <u>20ft</u>
☐ Undetermined	Average Depth	2.5 ft				<u>*0rc</u>	dinary Hig	gh Wat	ter Mai	rk Indicato	<u>ors</u>
Streambed Su	<u>ıbstrate</u>	<u>Chanr</u>	nel Gradient	<u>t</u>	Natur	al Line Im	oressed o	n Banl	k	☐ Scour	☐ Wrack
☐ Shale ☐ S	and	□ <2% (·	<1°) Gentle		☐ Matte	ed, bent, o	r Absent	Vegeta	ation	□ Water	Staining
☐ Bedrock ☐ C	)rganic	2 - 4%	5 (1 - 2°) Mo	derate	☐ Soil C	haracter C	hange			☐ Shelvi	ng
<b>*</b> *	obble/Gravel	□ 4 - <b>1</b> 09	% (2 - 6°) Sto	eep	☐ Terre	strial Vege	tation De	estroye	ed	Bed &	Banks
<b>X</b> Silt □ C	lay	□ >10%	(>6°) Very S	Steep	☐ Distu	rbed/Wasł	ned-away	Leaf L	itter	☐ Litter	& Debris
Other					☐ Plant	Communit	y Change	9		☐ Sedim	ent Sorting
	Observed	<u>Use</u>			☐ Multi	ple Observ	ed Flow	Events		□ Depos	sition
☐ Boating ☐ She	ellfishing	imming	☐ Irrigation	1			<u>v</u>		Quality		
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	nking	☐ Aquacult	ture	□ Clear	☐ Turbi	b	Şlig	ghtly Tu	ırbid	☐ Very Turbid
Other					Comment	s					
<u>Ba</u>	nk Slope		Left*	Right*	<u>Ban</u>	k Height (1	<u>t.)</u>		<u>Ban</u>	nk Erosion	<u>Potential</u>
	Nearly Level - Ge			<b>^</b>	-	Left*	5			Left*	Right*
	Moderately Slopi	ng -	×	×	-	Right* —	6		Low _	×	×
15 - 25% (9 - 14°)		-						Mod	lerate _		
25 - 35% (14 - 20°) >35% (>20°)	•	-				tion when j ownstream	•		High _		
	Substrate			Α	quatic Hab	itat			Es	timated C	anopy Closure
	Silt/Clay	□ Cobble	☐ Aqua	tic Vegetati	-	Mud	d Bar			- 10%	□ 50 - 60%
☐ Bedrock ☐ Sand	Riprap	☐ Organic	Overh	nanging Veg	etation	☐ San	d Bar		□ 10	- 20%	60 - 70%
□ Other			• •	rcut Banks		☐ RiffI	e - Pool		□ 20	- 30%	□ 70 - 80%
Comments			☐ Grave	el Bar		☐ Plur	ige Pools		□30	- 40%	□ 80 - 90%
			☐ Other	·					□ 40	- 50%	□90 - 100%



Adjacent Community T	Уре				
Percent Cover	<u>Dominant Spe</u>	<u>ecies</u>			
Trees 60	Acer negur	ndo, Frax pen			
Shrubs					
Herbaceous 40	Garlic Musta	ard, Dames Rocket, Imp	atiens capensis, false n	ettle	
Woody Vines					
Bare Soil/Rock	Туре				
Impervious	Туре				
			<u>red Fauna</u>		
☐ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	□ Other —	
☐ Snakes	□Frogs	☐ Beaver	□ Otter		
☐ Turtles	☐ Toads	□ Muskrat	Invertebrates		
	<u>Pro</u>	esence of Rare, Threate	ened, or Endangered Sp	<u>ecies</u>	
	] Yes Species &	Evidence			
Undetermined					
	Not	es (include weather, sit	e access issues, culvert	s, etc. <u>)</u>	
Clear/overcast, 65°F recent	: rain; contains 2 ex	ccavated overflow pits,	surround landscape is a	griculture, fringe do	oes not meet wetland criteria.
Starts at culvert on east sid					
Sketch (Optional)					
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0				0	
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Project Name	Excelsior				Date	06/14/	/2019			
Project Number	328808				Evaluated By	JJB				
Address					-					
USGS Quadrang	le(s): Byron, N	ΙΥ								
Stream Delineation	on ID S-JJB-05		Stream N	Name <sub>Bla</sub>	ick Creek					
	Stream Loca	ntion	•							
(e.g. ne	arest road, struc	ture)								
Presumed Regulatory	Authority		rgo namod i	stroam						
U.S. Army Corps	Ratio □ State	nale:	rge named :	stream						
Stream Class	<u>C</u>	bserved Hy	drology			W	idth (ft	.) acros	ss Existing	Water 16ft
Perennial	Flow □ Dry	/ □ Lov	w Mo	oderate	Flood Plain	□ Yes	, Meas	ure Ba	nkfull Wid	
□ Intermittent	<i>Stage</i> □ Hig	gh □ Flo	ood		Present?	No, M	easure	Top of	Bank Wid	 Ith (ft.)24ft
☐ Ephemeral	Flow Direction	NW			Wid	th (ft.) acros	ss Ordi	nary Hi	gh Water	Mark* 20ft
☐ Undetermined	Average Depth	2.5 ft			<u>*</u>	Ordinary Hi	gh Wa	ter Ma	rk Indicato	<u>ors</u>
Streambed Su	<u>ıbstrate</u>	<u>Chan</u> ı	nel Gradien	<u>t</u>	☐ Natural Line	Impressed (	on Ban	k	Scour	Wrack
☐ Shale ☐ S	and	<2% (	<1°) Gentle		☐ Matted, ben	t, or Absent	Veget	ation	□ Water	r Staining
☐ Bedrock ☐ C	Organic Organic	□ 2 - 4%	% (1 - 2°) Мо	derate	☐ Soil Characte	er Change			☐ Shelvi	ng
☐ Boulders 💢 C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	еер	☐ Terrestrial V	egetation D	estroye	ed	Bed &	Banks
Silt	lay	□ >10%	(>6°) Very \$	Steep	☐ Disturbed/W	/ashed-awa	y Leaf I	Litter	☐ Litter	& Debris
☐ Other					☐ Plant Comm	unity Chang	e		☐ Sedim	ent Sorting
	Observed	Use			☐ Multiple Ob	served Flow	Events	5	Depos	sition
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	n		:	Water	Quality	<u>/</u>	
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	nking	☐ Aquacul	ture	□ Clear □ Tu	ırbid	<b>S</b> lig	ghtly Tu	urbid	☐ Very Turbid
Other Potential f	for fishing				Comments					
Ba	nk Slope		Left*	Right*	Bank Heigl	nt (ft. <u>)</u>		<u>Bar</u>	nk Erosion	Potential
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping			Left*	2			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng		×	Right*	2		Low	×	×
15 - 25% (9 - 14°)	Steeply Sloping						Mod	lerate _		
25 - 35% (14 - 20°)	Steep				* Direction wh			High _		
>35% (>20°)	Very Steep				downstre	eam				
<u>Bank</u>	<u> Substrate</u>			<u>A</u>	quatic Habitat			<u>Es</u>	timated C	anopy Closure
☐ Shale ☐ Gravel	Silt/Clay	☐ Cobble		tic Vegetati		Mud Bar		□0.	- 10%	□ 50 - 60%
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	<b>X X</b>	hanging Veg		Sand Bar		□ 10	0 - 20%	□ 60 - 70%
□ Other			<b>*</b> *	ercut Banks		Riffle - Pool		☐ 20	0 - 30%	□ 70 - 80%
Comments			Grave			Plunge Pools	5	~ ~	) - 40%	□ 80 - 90%
			Othe	r In s	tream strctures			☐ 40	) - 50%	□90 - 100%



															36,66	1111 DC	micat	011 10	2-110			
Adj	jacent C	Comm	nunity	Туре	PFO	and (	Jpland	d Fores	st													
<u> </u>	Percent	Cove	<u>er</u>		<u>Domi</u>	nant S	Specie	<u>s</u>														
	Trees	35	ı		Su	gar m	aple, v	willow														
S	hrubs																					
Herba	ceous																					
Woody	Vines																					
Bare Soil	/Rock				Туре																	
Imper	rvious				Туре																	
										Obse	rved F	auna										
	□ Wat	erfov	vl	<b>4</b>	Fis	h		☐ Sal	aman	ders		□ Mi	nk			□ Ot	her					
	☐ Snal	kes		<b>&lt;</b>	Fro	gs		□Ве	aver			□ Ot	ter									
	☐ Turt	les			□То	ads		□Мι	ıskrat			□ Inv	erteb	rates								
							Prese	nce of	Rare,	Threa	tened	, or Er	ndange	ered S	pecies	<u> </u>						
	□ No			□ Yes	Sp	oecies	& Evic	dence														
	Und	etern	nined																			
	· ·					N	otes (	includ	e wea	ther, s	site ac	cess is	sues,	culver	ts, etc	:.)						
Cantin		£ C 111	D 0F :	d:££.																		
Continu	iation o	<u> 1 2-111</u>	<u>B-05 I</u>	<u>n airre</u>	rent p	<u>oarcei.</u>	PFU	oresen	t in sc	utner	n sect	ion to	ary ric	age in	nortn							
Skotch (Opt	tionall			5		= = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =		= = = = = = = = = = = = = = = = = = =									8 8 8 8 8			
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Project Name	Excelsior					Date(	)5/34/201	.9		
Project Number	328808				Evaluate	ed By	JB			
Address					-					
USGS Quadrang	le(s): Byron, N	ΙΥ								
Stream Delineation	on ID S-JJB-05		Stream N	Name Bla	ick Creek					
	Stream Loca	ation BY	N1004							
(e.g. ne	arest road, struc	ture)								
Presumed Regulatory	Authority		rge named s	stream						
U.S. Army Corps	Ratio □ State	nale: — La	rge nameu s	stream						
Stream Class	<u>C</u>	bserved Hy	drology				Width	(ft.) acro	ss Existing	Water 19
Perennial	Flow □ Dry	/ □ Lov	w Mo	oderate	Flood	Plain	Yes, Me	easure Ba	nkfull Wid	
□ Intermittent	Stage □ Hig	gh □ Flo	ood		Pres	sent?	No, Measu	ire Top of	f Bank Wid	th (ft.) 25
☐ Ephemeral	Flow Direction	North				Width (ft	) across O	rdinary H	igh Water	Mark* 22
☐ Undetermined	Average Depth	1 ft				<u>*Ordir</u>	nary High V	Vater Ma	rk Indicato	<u>ors</u>
Streambed Su	ıbstrate	Chan	nel Gradient	<u>t</u>	☐ Natural	Line Impr	essed on B	ank	Scour	Wrack
☐ Shale ☐ S	and	□ <2% (	<1°) Gentle		☐ Matted	, bent, or A	Absent Veg	getation	□ Water	Staining
☐ Bedrock ☐ C	)rganic	2 - 4%	% (1 - 2°) Mo	derate	☐ Soil Cha	aracter Cha	inge		Shelvi	ng
☐ Boulders 💢 C	obble/Gravel	□ 4 - 10	% (2 - 6°) St	еер	☐ Terrest	rial Vegeta	tion Destr	oyed	Bed &	Banks
□ Silt □ C	lay	□ >10%	(>6°) Very S	Steep	☐ Disturb	ed/Washe	d-away Le	af Litter	Litter	& Debris
□ Other					☐ Plant Co	ommunity	Change		☐ Sedim	ent Sorting
	Observed	Use			☐ Multiple	e Observe	d Flow Eve	nts	□ Depos	ition
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigation	า			<u>Wat</u>	er Quality	L	
☐ Fishing ☐ ☐ Dra	ainage 🗆 Dri	nking	☐ Aquacult	ture	Clear	☐ Turbid		Slightly T	urbid	☐ Very Turbid
Othernone obse	erved but likely fisl	ning			Comments					
Ba	nk Slope		Left*	Right*	<u>Bank</u>	Height (ft.	)	<u>Baı</u>	nk Erosion	<u>Potential</u>
0 - 8% (0 - 5°)	Nearly Level - Gei	ntly Sloping				Left*4			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng	<b>X</b>	×	R	light*		Low		
15 - 25% (9 - 14°)	Steeply Sloping						M	oderate -	×	×
25 - 35% (14 - 20°)	Steep				-	on when fa	cing	High -		
>35% (>20°)	Very Steep				dow	vnstream				
<u>Bank</u>	<u>Substrate</u>			<u>A</u>	<u> quatic Habita</u>	<u>at</u>		<u>Es</u>	stimated C	anopy Closure
☐ Shale ☐ Gravel	Silt/Clay	☐ Cobble		tic Vegetati		☐ Mud €	Bar	<b>X</b> 0	- 10%	□ 50 - 60%
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic	•	hanging Veg	getation	☐ Sand I			0 - 20%	□ 60 - 70%
□ Other				rcut Banks		☐ Riffle			0 - 30%	□ 70 - 80%
Comments			Grave			☐ Plung	e Pools	~ ~	0 - 40%	□ 80 - 90%
			☐ Othe	r In s	tream strctur	res		□ 40	0 - 50%	□90 - 100%



Adjacent Community Type  Percent Cover   Dominant Species  Trees   30   Green ash, black walnut, red maple  Shrubs   10   Various salix spp  Herbaceous  Woody Vine   Service   Type  Impervious   Type    Materfowl   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   Service   S
Trees 30 Green ash, black walnut, red maple  Various salix spp  Herbaceous  Woody Vines  Bare Soil/Rock Type  Impervious Type
Shrubs 10 Various salix spp  Herbaceous  Woody Vines  Bare Soil/Rock
Herbaceous  Woody Vines  Bare Soil/Rock  Type    Impervious   Type
Woody Vines Bare Soil/Rock Impervious Type    Observed Fauna
Bare Soil/Rock
Materfowl   Fish   Salamanders   Mink   Other   Likely supports turtles, snakes, frogs   Beaver   Otter   Snakes   Toads   Muskrat   Invertebrates   Presence of Rare, Threatened, or Endangered Species   No   Yes   Species & Evidence   Mussel habitat?
Observed Fauna Waterfowl Fish Salamanders Mink Sinakes Frogs Beaver Otter Turtles Toads Muskrat Invertebrates  Presence of Rare, Threatened, or Endangered Species Mussel habitat? Mussel habitat?  Notes (include weather, site access issues, culverts, etc.)  Large named stream, wetland/flood plain associated, 30% underneath power line ROW.
Waterfowl Fish Salamanders Mink Likely supports turtles, snakes, frogs   Snakes Frogs Beaver Otter Otter   Turtles Toads Muskrat Invertebrates    Presence of Rare, Threatened, or Endangered Species  Mussel habitat?  Notes (include weather, site access issues, culverts, etc.)  Large named stream, wetland/flood plain associated, 30% underneath power line ROW.    Solamanders   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink   Mink
Snakes   Frogs   Beaver   Otter   Snakes, frogs     Turtles   Toads   Muskrat   Invertebrates     Presence of Rare, Threatened, or Endangered Species     No
Turtles
Presence of Rare, Threatened, or Endangered Species  No Yes Species & Evidence Mussel habitat?  Notes (include weather, site access issues, culverts, etc.)  Large named stream, wetland/flood plain associated, 30% underneath power line ROW.
□ No □ Yes Species & Evidence    Mussel habitat?
Notes (include weather, site access issues, culverts, etc.)  Large named stream, wetland/flood plain associated, 30% underneath power line ROW.
Notes (include weather, site access issues, culverts, etc.)  Large named stream, wetland/flood plain associated, 30% underneath power line ROW.
Large named stream, wetland/flood plain associated, 30% underneath power line ROW.
Sketch (Optional)
Sketch (Optional)
Sketch (Optional)
Sketch (Optional)



Project Name	Excelsior				Da	ate 05/31	/2019			
Project Number	328808				 Evaluated	By JJB				
Address					-					
USGS Quadrang	le(s): Byron, N	ΙΥ								
Stream Delineation	on ID S-JJB-04		Stream N	Name N/	A					
	Stream Loca	ation								
(e.g. ne	arest road, struc	ture)								
Presumed Regulatory	•	INT	, NWI							
U.S. Army Corps	Ratio □ State	onale: ———	, 14441							
Stream Class	<u>C</u>	bserved Hyd	drology			W	/idth (ft	:.) acros	ss Existing	Water 3
☐ Perennial	Flow □ Dr		v 🗆 Mo	oderate	Flood Plo	<i>a</i> 1111	s, Meas	sure Ba	nkfull Wid	th (ft.)
ntermittent	<i>Stage</i> □ Hig	gh □ Flo	od		Presei	<sup>nt?</sup> □ No, N	1easure	Top of	Bank Wid	th (ft.)6
☐ Ephemeral	Flow Direction	Northwe	est		V	Vidth (ft.) acro	ss Ordi	nary Hi	igh Water	Mark*4
☐ Undetermined	Average Depth	2				*Ordinary H	ligh Wa	iter Ma	rk Indicato	<u>ors</u>
Streambed Su	<u>ıbstrate</u>	<u>Chanr</u>	nel Gradient	<u>t</u>	☐ Natural Li	ne Impressed	on Ban	k	☐ Scour	□ Wrack
☐ Shale ☐ Sa	and	<2% (	<1°) Gentle		☐ Matted, b	ent, or Absen	t Veget	ation	□ Water	Staining
	rganic	□ 2 - 4%	5 (1 - 2°) Mo	derate	Soil Chara	cter Change			☐ Shelvi	ng
	obble/Gravel		% (2 - 6°) St		☐ Terrestria	l Vegetation [	Destroy	ed	□ Bed &	
Silt	lay	□ >10%	(>6°) Very S	Steep		l/Washed-awa		Litter	☐ Litter	
Other					☐ Plant Com	nmunity Chan	ge		☐ Sedim	ent Sorting
	<u>Observed</u>	<u>Use</u>			☐ Multiple (	Observed Flow	v Events	S	□ Depos	ition
			☐ Irrigation					Quality		
•	ainage 🗆 Dr	inking	☐ Aquacult	ture	□ Clear □	Turbid	Slig	ghtly Tu	urbid	☐ Very Turbid
Other					Comments					
	nk Slope		Left*	Right*		eight (ft.)		<u>Bar</u>	nk Erosion	
	Nearly Level - Ge		•		-	eft* 3			Left*	Right*
	Moderately Slopi	ng	×	×	Rigi	nt*3	┨	Low		
15 - 25% (9 - 14°)		-			-		Mod	derate -	<b>\</b>	
25 - 35% (14 - 20°) >35% (>20°)	·					when facing stream		High -	<b>*</b>	
Bank	<u>Substrate</u>			<u>A</u>	quatic Habitat		ļ	<u>Es</u>	stimated C	anopy Closure
☐ Shale ☐ Gravel	Silt/Clay	□ Cobble	□ Aqua	tic Vegetati	on l	□ Mud Bar		<b>X</b> 0 ·	- 10%	□ 50 - 60%
$\square$ Bedrock $\square$ Sand	Riprap	☐ Organic	□ Overl	hanging Veg	etation l	☐ Sand Bar		□ 10	0 - 20%	□ 60 - 70%
□ Other			□ Unde	rcut Banks	1	□ Riffle - Pool		☐ 2C	0 - 30%	□ 70 - 80%
Comments recently	dug		☐ Grave	el Bar	1	☐ Plunge Poo	ls	□30	0 - 40%	□ 80 - 90%
			☐ Other	r				□ 40	0 - 50%	□90 - 100%



Adjacent Community Type	e Ag Field				
Percent Cover	Dominant Species				
Trees					
Shrubs					
Herbaceous <sub>10</sub>	Cattails				
Woody Vines					
Bare Soil/Rock	Туре				
Impervious	Туре				
		Observed	<u>Fauna</u>		
☐ Waterfowl	☐ Fish ☐	] Salamanders	☐ Mink ☐	Other	
☐ Snakes	□Frogs □	] Beaver	☐ Otter		
☐ Turtles	□ Toads □	] Muskrat	☐ Invertebrates		
	Presenc	e of Rare, Threatene	d, or Endangered Species		
<b>X</b> No □ Ye	es Species & Evide	nce			
$\Box$ Undetermined					
	Notes (in	clude weather, site a	ccess issues, culverts, etc.)		
Recently dug drainage ditch in	active ag field mann	ed on NWI fringed hy	PEM portion of W-IIR-10		
Necestity dag dramage arter in	active ag neia mappo	ed on www, milged by	TENT PORTION OF W 33B 10.		
Sketch (Optional)					
0			0		



Project Name	Excelsior					Date	05/31/	2019			
Project Number	328808				Evaluate	d By	JJB				
Address					-						
USGS Quadrang	le(s): Byron, N	IY									
Stream Delineation	on ID S-JJB-03		Stream I	Name N/	A						
	Stream Loca	ation									
(e.g. ne	arest road, struc	ture)									
Presumed Regulatory		INT	, NWI								
U.S. Army Corps	Ratio □ State	onale: ———	, 14 4 4 1								
Stream Class	<u>C</u>	bserved Hyd	drology				Wi	dth (ft	.) acros	ss Existing	Water 3
☐ Perennial	Flow □ Dr	y XLov	w 🗆 M	oderate	Flood F	Plain	□ Yes	, Meas	ure Ba	nkfull Wid	th (ft.)
ntermittent	Stage 🗆 Hig	gh 🗆 Flo	od		Pres	ent? [	□ No, Me	easure	Top of	Bank Wid	lth (ft.)6
☐ Ephemeral	Flow Direction	West				Width (	ft.) acros	s Ordii	nary Hi	igh Water	Mark*4
☐ Undetermined	Average Depth	2				<u>*0ra</u>	<u>dinary Hi</u>	gh Wa	ter Ma	rk Indicato	<u>ors</u>
Streambed Su	<u>ıbstrate</u>	<u>Chanr</u>	<u>nel Gradien</u>	<u>t</u>	□ Natural	Line Imp	oressed o	on Ban	k	☐ Scour	☐ Wrack
☐ Shale ☐ S	and	<2% (	<1°) Gentle		☐ Matted,	bent, o	r Absent	Vegeta	ation	□ Water	Staining
☐ Bedrock ☐ C	Organic Organic	□ 2 - 4%	5 (1 - 2°) Mc	derate	Soil Cha	racter C	hange			☐ Shelvi	ng
	obble/Gravel	□ 4 - 10	% (2 - 6°) St	еер	☐ Terrestr	ial Vege	tation D	estroye	ed	□ Bed &	Banks
Silt	lay	□ >10%	(>6°) Very :	Steep	□ Disturbe	ed/Wasł	ned-away	/ Leaf l	Litter	☐ Litter	& Debris
□ Other					☐ Plant Co	mmunit	ty Chang	e		☐ Sedim	ent Sorting
	Observed	<u>Use</u>			☐ Multiple	e Observ	ed Flow	Events	5	□ Depos	ition
☐ Boating ☐ She	ellfishing 🗆 Sw	imming	☐ Irrigatio	n			7		Quality		
☐ Fishing <b>X</b> Dra	ainage 🗆 Dri	inking	☐ Aquacul	ture	□ Clear	□ Turbio	d	Slig	ghtly Tu	urbid	☐ Very Turbid
☐ Other Ditch					Comments						
<u>Ba</u>	nk Slope		Left*	Right*	Bank I	Height (1	ft. <u>)</u>		<u>Bar</u>	nk Erosion	Potential
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping				Left*	3			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng			Ri	ight*	3		Low		
15 - 25% (9 - 14°)	Steeply Sloping		×	×	-			Mod	derate -		
25 - 35% (14 - 20°)	Steep				* Directio	•	•		High -	×	×
>35% (>20°)	Very Steep	<u>-</u>			dow	nstream	)				
<u>Bank</u>	<u>Substrate</u>			<u>A</u>	quatic Habita	<u>it</u>			<u>Es</u>	stimated C	anopy Closure
☐ Shale ☐ Gravel	Silt/Clay	☐ Cobble	□ Aqua	tic Vegetati	on	□ Mud	d Bar		0	- 10%	□ 50 - 60%
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		hanging Veg	etation	☐ San				0 - 20%	□ 60 - 70%
☐ Other recently	dug dug			ercut Banks			e - Pool			0 - 30%	□ 70 - 80%
Comments			☐ Grave			□ Plur	nge Pools			0 - 40%	□ 80 - 90%
			☐ Othe	r					□ 40	0 - 50%	□90 - 100%



Adjacent Comn	nunity Type	Ag Field																	
Percent Cove	<u>er</u>	Dominant	Specie	<u>s</u>															
Trees																			
Shrubs																			
Herbaceous 5		Cattail																	
Woody Vines																			
Bare Soil/Rock		Туре																	
Impervious		Туре																	
						Obse	rved f	- auna											
☐ Waterfov	wl	☐ Fish		□ Sa	laman	ders		□ Mi	ink			□ Ot	her						
☐ Snakes		□Frogs		□Ве	aver			□ Ot	ter										
☐ Turtles		□ Toads		□М	uskrat			□ Inv	verteb	rates									
			Prese	nce of	Rare,	Threa	itened	l, or Er	ndang	ered S	pecies	<u>5</u>							
No	□ Ye	s <i>Specie</i>	s & Evi	dence															
☐ Undeterr	mined																		
			Notes (	includ	e wea	ther,	site ac	cess is	ssues,	culver	ts, etc	c.)							
Recently dug draina	ge ditch in	active ag fi	eld mar	oped o	n NW	I. fring	ed by	PFM	portio	n of W	/-JJB-1	0. S-II	B-04 (	also N	IWI di	tch) flo	ows in	to fea	ture.
Trocking areas	9=					٠, ٠٠٠٠٠	, ,					,				,			
Sketch (Optional)												= = = = = = = = = = = = = = = = = = =			= = = = = = = = = = = = = = = = = = =				
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Project Name	Excelsior					Date	05/24/	2019			
Project Number	328808				Evaluat	ed By	JJB				
Address					-						
USGS Quadrang	gle(s): Byron, N	1Y									
Stream Delineation	on ID S-JJB-02		Stream N	Name N/	A						
	Stream Loca	ation									
(e.g. ne	arest road, struc	ture)									
Presumed Regulatory		INT									
U.S. Army Corps	<i>Ratio</i> □ State	onale: ———									
Stream Class	<u>C</u>	bserved Hy	drology				Wi	dth (ft.	.) acros	s Existing	Water1.5
☐ Perennial	Flow □ Dr		w 🗆 Mo	oderate	Flood	Plain	☐ Yes,	, Meas	ure Baı	nkfull Wid	lth (ft.)
ntermittent	Stage ☐ Hig	gh 🗆 Flo	ood		Pre	esent?	<b>《</b> No, M∈	easure	Top of	Bank Wid	lth (ft.)4
☐ Ephemeral	Flow Direction	West				Width (	ft.) acros	s Ordii	nary Hi	gh Water	Mark*3.5
☐ Undetermined	Average Depth	1in				<u>*0rc</u>	dinary Hig	gh Wa	ter Mai	rk Indicato	<u>ors</u>
Streambed Su	<u>ubstrate</u>	<u>Chan</u>	nel Gradient	<u>t</u>	□ Natura	l Line Imp	oressed c	n Banl	k	☐ Scour	☐ Wrack
☐ Shale ☐ S	and	<2% (	(<1°) Gentle		☐ Matted	d, bent, o	r Absent	Vegeta	ation	☐ Water	r Staining
☐ Bedrock ☐ C	Organic	□ 2 - 49	% (1 - 2°) Мо	derate	Soil Ch	aracter C	hange			☐ Shelvi	ng
☐ Boulders ☐ C	Cobble/Gravel	□ 4 - 10	)% (2 - 6°) St	eep	☐ Terrest	trial Vege	tation De	estroye	ed	Bed &	Banks
<b>X</b> Silt □ C	Clay	□ >10%	(>6°) Very S	Steep	☐ Disturb	oed/Wasł	ned-away	Leaf L	itter	☐ Litter	& Debris
☐ Other					☐ Plant C	Communit	ty Change	9		☐ Sedim	ent Sorting
	<u>Observed</u>	Use			☐ Multip	le Observ	ed Flow	Events		□ Depos	sition
☐ Boating ☐ She	ellfishing 🗆 Sw	rimming	☐ Irrigation	า			<u>\</u>	<u> Water (</u>	Quality	•	
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear	□ Turbio	d	☐ Slig	ghtly Tu	ırbid	☐ Very Turbid
□ Other					Comments						
<u>Ba</u>	ink Slope		Left*	Right*	<u>Bank</u>	Height (1	ft. <u>)</u>		Ban	k Erosion	Potential
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping	<b>X</b>	×		Left*	0.5			Left*	Right*
8 - 15% (5 - 9°)	Moderately Slopi	ng			F	Right* —	0.5		Low	×	×
15 - 25% (9 - 14°)	Steeply Sloping							Mod	lerate –		
25 - 35% (14 - 20°)	Steep					on when j	_		High –		
>35% (>20°)	Very Steep				401	wnstream					
	<u>k Substrate</u>	_	_		quatic Habit						Canopy Closure
	Silt/Clay	□ Cobble		tic Vegetati		□ Mud				10%	□ 50 - 60%
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		nanging Veg	etation	□ San				- 20%	60 - 70%
Other			-	rcut Banks			e - Pool			9 - 30%	□ 70 - 80%
Comments			☐ Grave			⊔ Plur	ige Pools			- 40%	□ 80 - 90%
			☐ Othei						⊔ 40	- 50%	□90 - 100%



Percent Cover   Sough Angle   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs   Shrubs
Shrubs Herbaceous Woody Vines Bare Soil/Rock Type    mpervious   Type
Shrubs Herbaceous  Woody Vines  Bare Soil/Rock
Woody Vines Bare Soil/Rock Type    Impervious   Type
Bare Soil/Rock
Impervious  Type    Observed Fauna   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   O
Observed Fauna  Waterfowl   Fish   Salamanders   Mink   Other   Snakes   Frogs   Beaver   Otter   Turtles   Toads   Muskrat   Invertebrates  Presence of Rare, Threatened, or Endangered Species   No   Yes   Species & Evidence   Windetermined   Species & Evidence   Species   Species & Evidence   Species   Species & Evidence   Species   Species & Evidence   Species   Species & Evidence   Species   Species & Evidence   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species   Species
Waterfowl   Fish   Salamanders   Mink   Other     Snakes   Frogs   Beaver   Otter     Turtles   Toads   Muskrat   Invertebrates    Presence of Rare, Threatened, or Endangered Species    No   Yes   Species & Evidence
Snakes
□ Turtles □ Toads □ Muskrat □ Invertebrates  Presence of Rare, Threatened, or Endangered Species □ No □ Yes Species & Evidence □ Undetermined  Notes (include weather, site access issues, culverts, etc.)  Flows out of W-JJB-04.
Presence of Rare, Threatened, or Endangered Species  No Yes Species & Evidence  Notes (include weather, site access issues, culverts, etc.)  Flows out of W-JJB-04.
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Flows out of W-JJB-04.
Sketch (Optional)
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Project Name	Excelsior				Dat	te05/28/	2019							
Project Number	328808				Evaluated E	Ву ЈЈВ								
Address					_									
USGS Quadrang	de(s): Byron, N	1Y												
Stream Delineation	on ID S-JJB-01		Stream N	Name <u>Tri</u>	butary to Black	creek								
	Stream Loca	ation												
(e.g. ne	arest road, struc	ture)												
Presumed Regulatory	Authority	Inte	ermittent flo	N4/										
U.S. Army Corps	<i>Ratio</i> □ State	onale:	ermittent no	) W										
Stream Class	<u>C</u>	bserved Hy	drology			Wi	idth (ft	.) acros	s Existing	Water 3.5ft				
☐ Perennial	<i>Flow</i> □ Dr	in □ Yes	, Meas	sure Ba	nkfull Wid									
ntermittent	Stage 🗆 Hig	gh 🗆 Flo	ood		Present? No, Measure Top of Bank Width (ft.)  4.5ft									
☐ Ephemeral	Flow Direction	NE			Wi	idth (ft.) acros	ss Ordi	nary Hi	gh Water	Mark* 4ft				
☐ Undetermined	Average Depth	2in				*Ordinary Hi	gh Wa	ter Ma	rk Indicato	<u>ors</u>				
Streambed Su	<u>ubstrate</u>	<u>Chan</u>	nel Gradient	<u>t</u>	☐ Natural Lin	e Impressed o	on Ban	k	☐ Scour	☐ Wrack				
☐ Shale ☐ S	and	<2%	(<1°) Gentle		Matted, be	ent, or Absent	Veget	ation	□ Water	Staining				
☐ Bedrock ☐ C	Organic	□ 2 - 4%	% (1 - 2°) Mo	derate	☐ Soil Charac	ter Change			☐ Shelvi	ng				
☐ Boulders ☐ C	Cobble/Gravel	□ 4 - 10	0% (2 - 6°) St	eep	☐ Terrestrial Vegetation Destroyed									
Silt	Clay	□ >10%	% (>6°) Very S	Steep	☐ Disturbed/	Washed-awa	y Leaf	Litter	☐ Litter	& Debris				
□ Other					☐ Plant Comr	munity Chang	e		☐ Sedim	ent Sorting				
	Observed	<u>Use</u>			☐ Multiple O	bserved Flow	Events	5	□ Depos	sition				
☐ Boating ☐ Sh	ellfishing 🗆 Sw	rimming	☐ Irrigation	า		<u>.</u>	Water	Quality	<u>′</u>					
☐ Fishing ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ainage 🗆 Dri	inking	☐ Aquacult	ture	Clear □ 1	Γurbid	☐ Sli	ghtly Tu	urbid	☐ Very Turbid				
☐ OtherNo	one				Comments									
<u>Ba</u>	nk Slope		Left*	Right*	<u>Bank Hei</u>	ght (ft.)		<u>Bar</u>	nk Erosion	<u>Potential</u>				
0 - 8% (0 - 5°)	Nearly Level - Ge	ntly Sloping	<b>X</b>	×	Lef	t* <u>0.5</u>			Left*	Right*				
8 - 15% (5 - 9°)	Moderately Slopi	ng			Right	t* <u>0.5</u>		Low	×	×				
15 - 25% (9 - 14°)	Steeply Sloping				Moderate									
25 - 35% (14 - 20°)	·				* Direction when facing High How High									
>35% (>20°)	Very Steep				downst	ream								
	<u> Substrate</u>	_			<u>quatic Habitat</u> _					anopy Closure				
	Silt/Clay	□ Cobble	Aqua		l Mud Bar		<b>X</b> 0		□ 50 - 60%					
☐ Bedrock ☐ Sand	☐ Riprap	☐ Organic		hanging Veg		Sand Bar			) - 20%	□ 60 - 70%				
Other			-	rcut Banks		Riffle - Pool			0 - 30%	□ 70 - 80%				
Comments			☐ Grave			l Plunge Pools	5		) - 40%	□ 80 - 90%				
			☐ Othe				□ 40	) - 50%	□90 - 100%					



Adjacent Community Type  Percent Cover Dominant Species														
Percent Cover	Dominant Specie	<u>es</u>												
Trees 20	Swamp White	Oak, Basswood, Re	ed Maple											
Shrubs 20		<u> </u>												
Herbaceous 60														
Woody Vines														
Bare Soil/Rock	Туре													
Impervious	Туре													
		Obse	rved Fauna											
□ Waterfowl	☐ Fish	☐ Salamanders	☐ Mink	☐ Other										
☐ Snakes	□Frogs □ Beaver □ Otter													
☐ Turtles	□ Toads	☐ Muskrat	☐ Invertebrates											
Presence of Rare, Threatened, or Endangered Species														
□ No □ Yes Species & Evidence														
□ No □ Yes Species & Evidence  Undetermined														
	Notes	(include weather, s	ite access issues, culve	erts, etc.)										
Overcast, intermit. raining.														
Overeast, interime, running.														
Sketch (Optional)	## ### ###############################		# # # # # # # # # # # # # # # # # # #	# # # # # # # # # # # # # # # # # # #										
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Project Name <u>Excelsio</u>	or	Date	06/17/19					
Project Number 328808	3	Evaluated By	Weston Hillegas					
Address	on Road, byron, Ny 14422		<del>-</del>					
USGS Quadrangle(s):	ron, NY							
Stream Delineation ID S-W	Stream Name /SH-01 N	/A						
	n Location							
(e.g. nearest road,	Originates from a culvert structure)  Ivison Road	under ivisori kodu.						
Stream Classification	Flow		Presumed Regi	ulatory Authority				
Perennial	Direction East		U.S. Army					
Intermittent	Dry Mary Low	Moderate	State	•				
Ephemeral	High Flooding							
Streambed Substrate	<u>Channel Gra</u>	adient	Width Measu	rements (feet)				
Shale Sand	<2% (<1°)	Gentle	Ordinary High Wate					
Bedrock Silt/Cl	lay 2 - 4% (1 - 2°)	Moderate	Across Existing Water O					
Boulders Organ	4 - 10% (2 - 6°)	Steep	Flood Plain Present?					
Cobble/Gravel	>10% (>6°)	Very Steep	Yes, Measure Ba	nkfull Width				
Other			No, Measure Top of	Bank Width 6"				
Probed Stream Depth	Observed Us	<u>e</u>	Water	· Quality				
0 - 6 in.	Boating	Shellfishing	Clear	٢				
6 - 12 in.	Swimming	Irrigation	Sligh	tly Turbid				
12 - 24 in.	Fishing	Drainage	Turb	id				
24 - 36 in.	Drinking	Aquaculture	Very	Turbid				
>36 in.	Other							
Bank Height (feet)	Bank Slope Nearly Level to Ge	Left*	Right* Bank	<u> Erosion Potential</u>				
Left* 0.5	0 - 8% (0 - 5°) Sloping			Left* Right*				
Right* <u>0.5</u>	8 - 15% (5 - 9°) Moderately Slopii	ng	Low	'				
	15 - 25% (9 - 14°) Steeply Sloping		Moderate					
* Direction when facing	25 - 35% (14 - 20°) Steep		High					
downstream	>35% (>20°) Very Steep							
Bank Substrate	Aquatic Habit	<u>at</u>	Estimated C	anopy Closure				
Shale Grave	Aquatic Vegetation	Mud Bar	0 - 10%	50 - 60%				
Bedrock Sand	Overhanging Vegetation	Sand Bar	10 - 20%	60 - 70%				
Cobble Organ	undercut Banks	Riffle - Pool	20 - 30%	70 - 80%				
Silt/Clay Riprag		Plunge Pools	30 - 40%	80 - 90%				
Other	Other (None)		40 - 50%	90 - 100%				



Stream Delineation ID S-WSH-01

Adjacent Community Type UPL, Agriculture Field																							
	<u>P</u>	<u>ercen</u>	t Cove	<u>er</u>				Specie															
		Trees			_																		
	S	hrubs			_																		
+	lerba	ceous	10		_	Talle	er Fes	cue															
W	oody	Vines			_																		
Bar	e Soil,	/Rock			_	Туре																	
	Imper	vious			-	Туре																	
											<u>Obse</u>	erved F	auna										
		Wate	rfowl			Fish			Salam	nande	rs		Mink				Othe	r					
		Snake	es		X	Frogs			Beave	er			Otter										
		Turtle	es			Toads	5		Musk	rat			Inver	tebrat	es								
								Prese	nce of	Rare,	Threa	itened	, or Er	ndange	ered S	pecies	<u> </u>						
	×	No			Yes	Sp	oecies	& Evid	dence														
_	Undetermined																						
	Notes (include weather, site access issues, culverts, etc.)																						
24	" met	tal culv	vert ui	nder Iv	vison F	Road .	Strear	n orig	inates	from	there.	Ephei	meral	draina	ge thr	ough	active	alfalfa	a field.				
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Project Name <u>Excelsior</u>		Date 06/18/19
Project Number 328808	Evalua	ated By Weston Hillegas
Address	ell Road, Byron, NY 14422	
USGS Quadrangle(s):	on, NY	
Stream Delineation ID	Stream Name	
S-WS Stream	H-02N/A	
	BYN1012 Parcel	
(e.g. nearest road, s	Near Walker's Corner Road (BYN10	012 Parcel)
Stream Classification	<u>Flow</u>	Presumed Regulatory Authority
Perennial	Direction North / NW	U.S. Army Corps
Intermittent	Dry 🗙 Low Mo	oderate State
Ephemeral	High Flooding	
Streambed Substrate	<u>Channel Gradient</u>	Width Measurements (feet)
Shale Sand	<2% (<1°) Gentle	Ordinary High Water Mark 3.5
Bedrock Silt/Cla	2 - 4% (1 - 2°) Moderate	e Across Existing Water 3
Boulders Organic	4 - 10% (2 - 6°) Steep	Flood Plain Present?
Cobble/Gravel	>10% (>6°) Very Stee	ep Yes, Measure Bankfull Width
Other		No, Measure Top of Bank Width 4
Probed Stream Depth	Observed Use	<u>Water Quality</u>
0 - 6 in.	Boating Shellfishin	ing Clear
6 - 12 in.	Swimming Irrigation	Slightly Turbid
12 - 24 in.	Fishing Drainage	Turbid
24 - 36 in.	Drinking Aquacultu	ure Very Turbid
>36 in.	Other	
Bank Height (feet)	Bank Slope Nearly Level to Cently	Left* Right* Bank Erosion Potential
Left* 0.5	Nearly Level to Gently 0 - 8% (0 - 5°) Sloping	Left* Right*
Right* 0.5	8 - 15% (5 - 9°) Moderately Sloping	Low
	15 - 25% (9 - 14°) Steeply Sloping	<b>X</b> Moderate
* Direction when facing	25 - 35% (14 - 20°) Steep	High 💥 💢
downstream	>35% (>20°) Very Steep	
Bank Substrate	Aquatic Habitat	Estimated Canopy Closure
Shale Gravel	Aquatic Vegetation Mu	ud Bar 0 - 10% 50 - 60%
Bedrock Sand	Overhanging Vegetation San	nd Bar 10 - 20% 60 - 70%
Cobble Organic	Undercut Banks Riff	fle - Pool 20 - 30% 70 - 80%
Silt/Clay Riprap	Gravel Bar Plui	ange Pools 30 - 40% 80 - 90%
Other	Other	40 - 50% 90 - 100%



Stream Delineation ID S-WSH-02

	Adjacent Community Type  UPL, Forest  Dominant Species																							
	Percent Cover Dominant Species																							
		Trees	80			Red	d Map	le, Sha	agbark	Hicko	ry, Ho	p-Hor	nbear	n, Mu	scel W	ood, 9	Sugar	Maple						
	S	hrubs			_						-,,			•		,		•						
	Herba	ceous	10		_	Jew	el We	ed. Ma	ау Арр	ıle														
W	/oody	Vines			-				<u>/ · · ·  -  -</u>															
Ва	re Soil	/Rock			_	Туре																		
	Imper	rvious			-	Туре																		
											Obse	rved F	auna											
		Wate	erfowl			Fish			Salan	nande	rs		Mink				Othe	r						
		Snake	es			Frogs Beaver							Otter				-							
		Turtle	es		×	Toads Muskrat Invertebrates ————————————————————————————————————																		
Presence of Rare, Threatened, or Endangered Species																								
	No Yes Species & Evidence																							
	No Yes Species & Evidence Undetermined																							
	Undetermined  Notes (include weather, site access issues, culverts, etc.)																							
S-	-WSH-	<u>02 ori</u>	ginate	s at fie	eld and	d fores	st edge	e and f	flows r	north	/ nortl	nwest,	then	<u>north</u>	along	forest	:/field	edge a	and te	rmina	tes at	<u>drain</u>	tile inle	et.
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Project Name	Excelsior		Date	06/19/19						
Project Number	328808		Evaluated By	Weston Hill	egas					
Address		s Corner Road, Byron, NY 144			·					
USGS Quadrangl										
Stream Delineatio	n ID	Stream Name								
	S-WSH-0	ration -	Bigelow Creek (S-JB-:	12)						
(e.g. nea	arest road, stru	<u>Western Edge of par</u> acture)								
		Walkers Corner Road		1 _						
Stream Classif	<u>ication</u>	<u>Flo</u>	<u>w</u>	Pre	esumed Regulator		Y			
Perennial		Direction North		×	U.S. Army Corps –					
Intermittent		Dry Low	Moderate	×	State –					
Ephemeral		High Floodi	ng							
Streambed Sul	<u>bstrate</u>	<u>Chann</u>	el Gradient	<u>v</u>	Vidth Measureme	nts (feet)				
Shale	Sand	<2% (<1°)	Gentle	Or	dinary High Wate	r Mark 2	20			
Bedrock	Silt/Clay	2 - 4% (1 - 2°)	Moderate	Across Existing Water 18						
Boulders	Organic	4 - 10% (2 - 6°)	Steep	Flood Plain Present?						
Cobble/Gravel		>10% (>6°)	Very Steep	Yes, Measure Bankfull Width						
Other				No, Mea	asure Top of Bank	Width 3	30			
Probed Stream	n Depth	Observe	ed Use	<u>Water Quality</u>						
0 - 6 in	١.	Boating	Shellfishing	Clear						
6 - 12 i	in.	Swimming	 Irrigation	Slightly Turbid						
12 - 24	↓in.	Fishing	Drainage		Turbid					
24 - 36	S in.	Drinking	Aquaculture		 Very Turbi	id				
>36 in.		Other								
Bank Height (fee	et)	Bank Slope	Left*	—  Right*	Bank Erosi	ion Potent				
Left*	<u> </u>	Nearly Level	to Gently				Right*			
Right*		0 - 8% (0 - 5°) Sloping 8 - 15% (5 - 9°) Moderately	Sloping	×	Low					
		15 - 25% (9 - 14°) Steeply Slop				×	×			
* Direction when fo		5 - 35% (14 - 20°) Steep			High					
downstream	icing –	>35% (>20°) Very Steep								
Dowle Culbate	mat a	T				. Clasura				
<u>Bank Substi</u> Shale	rate Gravel	Aquatic Vogetation	<u>навітат</u> Mud Bar		Estimated Canopy		10/			
Bedrock	<u>* * </u>	Aquatic Vegetation  Overhanging Vegetation		0 - 10% 50 - 60% 10 - 20% 60 - 70%						
Cobble	Sand	Overhanging Vegetation	Riffle - Pool			- 70 - 80°				
	Organic	Undercut Banks		<u> </u>		_				
Silt/Clay	Riprap	Gravel Bar	Plunge Pools		30 - 40%	80 - 90°				
Other		Other			40 - 50% 	90 - 10	U70			



Stream Delineation ID S-WSH-03 (S-JB-12)

-																								
	Adjacent Community Type  UPL, Forest  Percent Cover  Dominant Species																							
	Percent Cover Dominant Species																							
		Trees	35		_	Gree	en Ash	n, Bass	wood,	Hawt	:horne	, Tren	bling	Asper	า									
	S	hrubs	20						lky Do			•												
	Herba	ceous	5						nuncu			w Butt	ercup	), Orcl	hard G	irass								
W	/oody	Vines	5		_			Poiso																
Ва	re Soil	/Rock			-	Туре			·															
	Imper	rvious			_	Туре																		
	Observed Fauna																							
		Wate	erfowl		×	Fish			Salan	nande	rs		Mink				Othe	r						
		Snak	es		×	Frogs			Beave	er			Otter				-							
		Turtle	es		_ • •	Toads Muskrat Invertebrates																		
Presence of Rare, Threatened, or Endangered Species																								
	No Yes Species & Evidence																							
	No Yes Species & Evidence Undetermined																							
	Undetermined  Notes (include weather, site access issues, culverts, etc.)																							
					_																			
W	<u>/etter</u>	than a	averag	e year	r. Farn	n bridg	ge acro	oss str	eam at	t plot a	and to	the so	outh.											
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Project Name	Excelsior		Date	06/19/19		
Project Number	328808		Evaluated By	Weston Hille	egas	
Address		Corner Road, Byron, NY 14422				
USGS Quadrangle(s)						
Stream Delineation ID	)	Stream Name				
	S-WSH-0	<u> </u>	rib. to Bigelow Cree	<u>k</u>		
	Stream Loca	Western flow towards Bi	gelow Creek			
(e.g. neares	t road, struc	cture) Follows northern bounda	ary of parcel indenta	tion.		
Stream Classificati	<u>ion</u>	<u>Flow</u>		Pre	sumed Regulatory Aut	<u>hority</u>
Perennial		Direction West		×	U.S. Army Corps	
Intermittent		Dry X Low	Moderate	×	State	
Ephemeral		High Flooding				
Streambed Substr	at <u>e</u>	<u>Channel Gr</u>	<u>adient</u>	<u> </u>	Vidth Measurements (f	eet)
Shale	Sand	<2% (<1°)	Gentle	Or	dinary High Water Mai	<sup>-</sup> k 4
Bedrock	Silt/Clay	2 - 4% (1 - 2°)	Moderate		Across Existing Water	er <u>3</u>
Boulders	Organic	4 - 10% (2 - 6°)	Steep	Flood Plain	Present?	
Cobble/Gravel		>10% (>6°)	Very Steep	Yes,	Measure Bankfull Widt	h
Other				No, Mea	sure Top of Bank Widt	h <u>7</u>
Probed Stream De	<u>pth</u>	Observed Us	<u>se</u>		Water Quality	
0 - 6 in.		Boating	Shellfishing		Clear	
6 - 12 in.		Swimming	Irrigation		Slightly Turbid	
12 - 24 in.		Fishing	Drainage		Turbid	
24 - 36 in.		Drinking	Aquaculture		Very Turbid	
>36 in.		Other				
Bank Height (feet)		Bank Slope Nearly Level to G	Left*	Right*	Bank Erosion Po	otential_
Left* 2		0 - 8% (0 - 5°) Sloping	entiy		Left*	Right*
Right* 2.5		8 - 15% (5 - 9°) Moderately Slopi	ng		Low	
	1	L5 - 25% (9 - 14°) Steeply Sloping	×	×	Moderate X	×
* Direction when facing	g 25	5 - 35% (14 - 20°) Steep			High	
downstream		>35% (>20°) Very Steep				
Bank Substrate	-	Aquatic Habit	at	<u>.</u>	Estimated Canopy Clos	ur <u>e</u>
Shale	Gravel	Aquatic Vegetation	Mud Bar		0 - 10% 50	) - 60%
Bedrock	Sand	Overhanging Vegetation	Sand Bar		10 - 20% 60	) - 70%
Cobble	Organic	Undercut Banks	Riffle - Pool		20 - 30% 70	0 - 80%
Silt/Clay	Riprap	Gravel Bar	Plunge Pools		30 - 40% 80	) - 90%
Other		Other			40 - 50% 90	0 - 100%



Stream Delineation ID S-WSH-04

	Adjacent Community Type  UPL, Forest  Percent Cover  Dominant Species																					
	<u> </u>	Percer	nt Cov	<u>er</u>		<u>Domi</u>	nant S	pecie	<u>S</u>													
		Trees	80	)	_	_Gree	en Ash	n, Haw	thorne	e, Blac	k Che	rry, Sli	ppery	Elm								
	S	hrubs	20		_	Hor	neysud	ckle														
	Herba	ceous	20			Whi	te Sm	ake Ro	oot, Je	wel W	'eed, E	Bedstra	aw, Ga	arlic M	lustar	d						
W	oody/	Vines	5			Vit	is sp. ,	Poiso	n Ivy													
Baı	e Soil	/Rock			_	Туре	,		,													
	Imper	rvious			_	Туре																
											Obse	rved F	auna									
		Wate	erfowl		X	Fish			Salam	nande	rs		Mink				Othe	r				
		Snake	es		X	Frogs			Beave	er			Otter									
		Turtle	es			Toads	S		Musk	rat			Inver	tebrat	es							
	Presence of Rare, Threatened, or Endangered Species																					
	No Yes Species & Evidence																					
	Undetermined Yes Species & Evidence																					
	Undetermined  Notes (include weather, site access issues, culverts, etc.)																					
											,					,						
W	<u>etter</u>	than a	averag	e yeai	r. Unn	amed	trib. to	o Bigel	ow Cr	eek.												
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Sketc	h												0							0		
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# APPENDIX D Soil Descriptions



#### **Soil Descriptions**

Alden mucky silt loam (Ad) – This very poorly drained soil makes up approximately 0.8 percent of the Project Site. Alden and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Alden soils can be found in depressions and are developed from a parent material of a silty mantle of local deposition overlying loamy till. This map unit has a hydric rating of 100 percent

Appleton silt loam, 0 to 3 percent slopes (ApA) – This somewhat poorly drained soil makes up approximately 10.6 percent of the project site. Appleton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Appleton soils can be found on till plains, drumlins, and ridges, and are developed from a parent material of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 4 percent.

Appleton silt loam, 3 to 8 percent slopes (ApB) – This somewhat poorly drained soil makes up approximately 10.6 percent of the project site. Appleton and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Appleton soils can be found on till plains, drumlins, and ridges. They are developed from a parent material of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 5 percent.

Arkport very fine sandy loam, 1 to 6 percent slopes (ArB) – This well drained soil makes up approximately 0.7 percent of the project site. Arkport and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Arkport soils can be found on deltas and lake plains and are developed from a parent material of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Aurora silt loam, 0 to 3 percent slopes (AuA) – This moderately well drained soil makes up approximately 1.1 percent of the project site. Aurora and similar soils make up 70 percent of the series with the remaining 30 percent being minor components. Aurora soils can be found on till plains, ridges and benches and are developed from loamy till parent material mainly derived from calcareous shale with some limestone and sandstone. This map unit has a hydric rating of 0 percent.

Aurora silt loam, 3 to 8 percent slopes (AuB) – This moderately well drained soil makes up approximately 0.8 percent of the project site. Aurora and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Aurora soils can be found on till plains, ridges and benches and are developed from loamy till parent material mainly derived from calcareous shale with some limestone and sandstone. This map unit has a hydric rating of 0 percent.

Canandaigua silt loam, 0 to 2 percent slopes (CaA) – This poorly drained soil makes up approximately 2.7 percent of the project site. Canandaigua and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Canandaigua soils can be found in depressions and are developed from parent material consisting of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 95 percent.

Canandiagua mucky silt loam, 0 to 2 percent slopes (CbA) – This poorly drained soil makes up approximately 0.1 percent of the project site. Canandaigua and similar soils make up 75 percent



of the series with the remaining 25 percent being minor components. Canandaigua soils can be found in depressions and are developed from parent material consisting of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 95 percent.

Cazenovia silt loam, 0 to 3 percent slopes (CeA) – This moderately well drained soil makes up approximately 0.1 percent of the project site. Cazenovia and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silt loam, 3 to 8 percent slopes (CeB) – This moderately well drained soil makes up approximately 5.1 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silt loam, 8 to 15 percent slopes (CeC) – This moderately well drained soil makes up approximately 0.5 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Cazenovia silty clay loam, 15 to 25 percent slopes, eroded (CgD3) – This moderately well drained soil makes up less than 0.1 percent of the project site. Cazenovia and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Cazenovia soils can be found in Reworked lake plain and till plains and are developed from a loamy till parent material that contains limestone with admixture of reddish lake-laid clays or reddish clay shale. This map unit has a hydric rating of 0 percent.

Collamer silt loam, 2 to 6 percent slopes (CIB) – This moderately well drained soil makes up approximately 3.1 percent of the project site. Collamer and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Collamer soils can be found in lake plains and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 0 percent.

Dunkirk silt loam, 6 to 12 percent slopes (DuC) – This well drained soil makes up less than 0.1 percent of the project site. Dunkirk and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Dunkirk soils can be found on lake planes and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 0 percent.

Fonda mucky silt loam (Fo) – This very poorly drained soil makes up approximately 0.1 percent of the project site. Fonda and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Fonda soils can be found in depressions and are developed from a parent material composed of clayey glaciolacustrine deposits. This map unit has a hydric rating of 100 percent.



Fredon gravelly loam, 0 to 3 percent slopes (FpA) – This somewhat poorly drained soil makes up approximately 0.1 percent of the project site. Fredon and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Fredon soils can be found on terraces and valley trains and are developed from a parent material composed of Loamy over sandy and gravelly glaciofluvial deposits. This map unit has a hydric rating of 10 percent.

Galen very fine sandy loam, 2 to 6 percent slopes (GnB) – This moderately well drained soil makes up approximately 0.8 percent of the project site. Galen and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Galen soils can be found in deltas and lake plains and are developed from a parent material composed of deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Gravel Pits (GP) – This unit does not have a drainage class listed, and it makes up less than 0.1 percent of the project site. Gravel pits make up 80 percent of the series with the remaining 20 percent being minor components. This map unit does not have typical location, parent material, or a hydric rating listed.

Hilton Loam, 0 to 3 percent slopes (HIA) – This moderately well drained soil makes up approximately 4.9 percent of the project site. Hilton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Hilton soils can be found in till plains, ridges, and drumlins and are developed from a parent material composed of calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Hilton Loam, 3 to 8 percent slopes (HIB) – This moderately well drained soil makes up approximately 5.3 percent of the project site. Hilton and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Hilton soils can be found in till plains, ridges, and drumlins and are developed from a parent material composed of calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Lakemont silty clay loam, 0 to 3 percent slopes (La) – This poorly drained soil makes up approximately 1.8 percent of the project site. Lakemont and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lakemont soils can be found in depressions and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 95 percent.

Lamson very fine sandy loam (Ld) – This poorly drained soil makes up approximately 1.3 percent of the project site. Lamson and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Lamson soils can be found in depressions and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 90 percent.

Lamson mucky very fine sandy loam (Le) – This very poorly drained soil makes up approximately 0.1 percent of the project site. Lamson and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Lamson soils can be found in depressions and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 90 percent.



Lima silt loam, 0 to 3 percent slopes (LmA) – This moderately well drained soil makes up approximately 4.7 percent of the project site. Lima and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lima soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment derived from limestone, sandstone and shale. This map unit has a hydric rating of 1 percent.

Lima silt loam, 3 to 8 percent slopes (LmB) – This moderately well drained soil makes up approximately 12.8 percent of the project site. Lima and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Lima soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone and shale. This map unit has a hydric rating of 1 percent.

Lyons soils, 0 to 3 percent slopes (LoA) – This poorly drained soil makes up approximately 0.9 percent of the project site. Lyons and similar soils make up 75 percent of the series, Lyons frequently ponded and similar soils make up 15 percent of the series, with the remaining 10 percent being minor components. Lyons soils can be found in drainageways and depressions and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone and shale. This map unit has a hydric rating of 95 percent.

Madalin silty clay loam, 0 to 3 percent slopes (Ma) – This poorly drained soil makes up less than 0.1 percent of the project site. Madalin and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Madalin soils can be found in depressions and are developed from a parent material composed of brown clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 95 percent.

Minoa very fine sandy loam, 0 to 2 percent slopes (MnA) – This somewhat poorly drained soil makes up approximately 0.3 percent of the project site. Minoa and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Minoa soils can be found in deltas on lake planes and are developed from a parent material composed of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 5 percent.

Newstead silt loam, 0 to 3 percent slopes (NeA) – This somewhat poorly drained soil makes up approximately 0.3 percent of the project site. Newstead and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Newstead soils can be found in benches, till plains, and ridges and are developed from a parent material composed of loamy till derived from sandstone, shale, and granite. This map unit has a hydric rating of 5 percent.

Niagara silt loam, 0 to 2 percent slopes (NgA) – This somewhat poorly drained soil makes up approximately 2 percent of the project site. Niagara and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Niagara soils can be found in lake plains and are developed from a parent material composed of silty and clayey glaciolacustrine deposits. This map unit has a hydric rating of 5 percent.

Odessa silt loam, 0 to 3 percent slopes (OdA) – This somewhat poorly drained soil makes up approximately 0.4 percent of the project site. Odessa and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Odessa soils can be found in lake



terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 5 percent.

Odessa loam, 3 to 8 percent slopes (OdB) – This somewhat poorly drained soil makes up approximately 1.1 percent of the project site. Odessa and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Odessa soils can be found in lake terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 4 percent.

Ontario Loam, 0 to 3 percent slopes (OnA) – This well drained soil makes up approximately 3.2 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 3 to 8 percent slopes (OnB) – This well drained soil makes up approximately 11.8 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario Loam, 8 to 15 percent slopes (OnC) – This well drained soil makes up approximately 0.7 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 15 to 25 percent slopes (OnD) – This well drained soil makes up less than 0.1 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ontario loam, 3 to 8 percent slopes, stony (OsB) – This well drained soil makes up approximately 0.8 percent of the project site. Ontario and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Ontario soils can be found in drumlins, ridges, and till plains and are developed from a parent material composed of Calcareous loamy lodgment till derived from limestone, sandstone, and shale. This map unit has a hydric rating of 0 percent.

Ovid silt loam, 0 to 3 percent slopes (OvA) – This somewhat poorly drained soil makes up approximately 6.2 percent of the project site. Ovid and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Ovid soils can be found in reworked lake plains and till plains and are developed from a parent material composed of loamy till with a significant component of reddish shale or reddish glaciolacustrine clays, mixed with limestone and some sandstone. This map unit has a hydric rating of 5 percent.

Ovid silt loam, 3 to 8 percent slopes (OvB) – This somewhat poorly drained soil makes up approximately 9.6 percent of the project site. Ovid and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Ovid soils can be found in reworked lake plains and till plains, and are developed from a parent material composed of loamy



till with a significant component of reddish shale or reddish glaciolacustrine clays, mixed with limestone and some sandstone. This map unit has a hydric rating of 5 percent.

Palms muck (Pd) – This very poorly drained soil makes up approximately 0.2 percent of the project site. Palms drained and similar soils make up 65 percent of the series, Palms undrained and similar soils make up 15 percent of the series with the remaining 20 percent being minor components. Palms drained and Palms undrained soils can be found in swamps and marshes, and are developed from a parent material composed of organic material over loamy glacial drift. This map unit has a hydric rating of 100 percent.

Palmyra gravelly loam, 0 to 3 percent slopes (PhA) – This well drained soil makes up approximately 0.1 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra gravelly loam, 3 to 8 percent slopes (PhB) – This well drained soil makes up approximately 0.6 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra gravelly loam, 8 to 15 percent slopes (PhC) – This well drained soil makes up approximately 0.4 percent of the project site. Palmyra and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Palmyra soils can be found in deltas, terraces, and outwash plains, and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. This map unit has a hydric rating of 0 percent.

Palmyra and Arkport soils, 15 to 25 percent slopes (PkD) – This well drained soil makes up less than 0.1 percent of the project site. Palmyra and similar soils make up 45 percent of the series, Arkport and similar soils make up 40 percent of the series, with the remaining 15 percent being minor components. Palmyra soils can be found in outwash plains, deltas, and terraces and are developed from a parent material composed of loamy over sandy and gravelly glaciofluvial deposits that are mainly derived from limestone and other sedimentary rock. Arkport soils can be found in deltas on lake plains and are developed from parent material composed of glaciofluvial or deltaic deposits with a high content of fine and very fine sand. This map unit has a hydric rating of 0 percent.

Phelps Gravely Loam, 0 to 3 percent slopes (PsA) – This moderately well drained soil makes up less than 0.1 percent of the project site. Phelps and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Phelps soils can be found in terraces and valley trains and are developed from a parent material composed of loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. This map unit has a hydric rating of 5 percent.

Phelps Gravely Loam, 3 to 8 percent slopes (PsB) – This moderately well drained soil makes up approximately 0.1 percent of the project site. Phelps and similar soils make up 80 percent of the



series with the remaining 20 percent being minor components. Phelps soils can be found in terraces and valley trains and are developed from a parent material composed of loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. This map unit has a hydric rating of 0 percent.

Romulus silt loam, 0 to 3 percent slopes (RsA) – This poorly drained soil makes up approximately 1.1 percent of the project site. Romulus and similar soils make up 75 percent of the series with the remaining 25 percent being minor components. Romulus soils can be found in depressions and are developed from a parent material composed of loamy till derived from reddish calcareous shale, limestone, and sandstone, in places intermixed with glaciolacustrine deposits. This map unit has a hydric rating of 85 percent.

Schoharie silty clay loam, 6 to 12 percent slopes (ShC3) – This moderately well drained soil makes up less than 0.1 percent of the project site. Schoharie and similar soils make up 85 percent of the series with the remaining 15 percent being minor components. Schoharie soils can be found in lake terraces and are developed from a parent material composed of red clayey glaciolacustrine deposits derived from calcareous shale. This map unit has a hydric rating of 0 percent.

Teel silt loam (Te) – This moderately well drained soil makes up approximately 0.2 percent of the project site. Teel and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Teel soils can be found in flood plains and are developed from a parent material composed of silty alluvium. This map unit has a hydric rating of 5 percent.

Wakeville silt loam (Wk) – This somewhat poorly drained soil makes up approximately 1.5 percent of the project site. Wakeville and similar soils make up 70 percent of the series with the remaining 30 percent being minor components. Wakeville soils can be found in flood plains and are developed from a parent material composed of silty alluvium washed from areas of glacial drift derived from shale, siltstone, and sandstone with some limestone. This map unit has a hydric rating of 10 percent.

Wassaic silt loam, 2 to 8 percent slopes (WsB) – This well drained soil makes up approximately 0.5 percent of the project site. Wassaic and similar soils make up 80 percent of the series with the remaining 20 percent being minor components. Wassaic soils can be found in ridges, benches, and till plains and are developed from a parent material composed of loamy till mainly derived from limestone with varying amounts of sandstone, shale, and crystalline rock. This map unit has a hydric rating of 0 percent.

Wayland soils complex, 0 to 3 percent slopes, frequently flooded (Wy) – This poorly drained soil makes up approximately 0.2 percent of the project site. Wayland and similar soils make up 60 percent of the series, Wayland very poorly drained and similar soils make up 30 percent of the series, and the remaining 20 percent are minor components. Wayland and Wayland very poorly drained soils can be found in flood plains and are developed from a parent material composed of silty and clayey alluvium which are derived in turn from interbedded sedimentary rocks. This map unit has a hydric rating of 90 percent.