MEMORANDUM

To:	Trafton Realty, LLC
FROM:	Kleinschmidt Associates
Cc:	John Melrose and Richard Bostwick
DATE:	11/20/2013
RE:	Trafton Road Natural Resource Inventory

1.0 Introduction

In order to complete the National Environmental Policy Act (NEPA) analysis and determine whether the project will qualify for a category 1 or 2 USACE permit, a natural resource inventory including a jurisdictional wetland delineation was completed. The wetland delineation was used to calculate impact areas and to ensure that the preferred alternative avoids and minimizes potential impacts given required design constraints and project needs as required by NEPA and U.S. Army Corps of Engineers (USACE) permitting under Section 404 of the Clean Water Act. During May - July of 2013 Kleinschmidt completed vernal pool surveys and delimitated wetlands and streams on approximately 108 acres of land in the area of the proposed interchange.

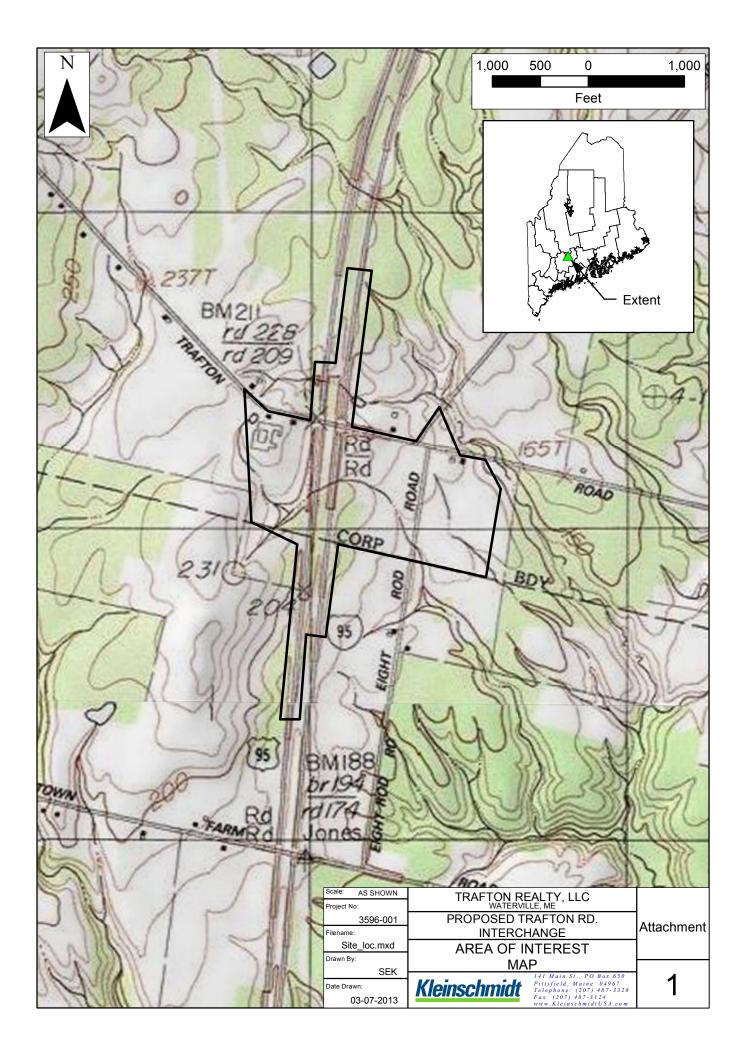
2.0 Methods

In order to complete the NEPA analysis and determine whether the project will qualify for a category 1 or 2 USACE permit, a jurisdictional wetland delineation and functional assessment was completed. In addition, a vernal pool survey was completed for State-regulated "significant" pools and amphibian breeding areas.

Field surveys were conducted over several site visits between May 3 and July 1, 2013. Specifically, vernal pools and streams were surveyed on May 3 and again in late May (May 21-23) in order to identify peak Spotted Salamander breeding. Wetlands were delineated over a several-day period during late May and June.

Wetlands were mapped using the USACE methodology (USACE, 1987) in accordance with the Regional Supplement (USACE, 2009) which relies on a three factor approach requiring wetland vegetation, hydrology, and soils. USACE data forms are included as Appendix A. Wetland functions and values were assessed for each wetland based on the USACE Highway Methodology (USACE, 2001); data forms are included as Appendix B. Streams were identified based on stream criteria outlined in MSRA Title 38 §480-B. Potential vernal pools were identified based on the Natural Resource Protection Act, Ch. 335 Significant Wildlife Habitat rules. All identified features were delineated with a Trimble ProXRT satellite receiver and Trimble TSC1 data logger. GPS positions were differentially corrected using Trimble Pathfinder software.





3.0 Results

3.1 Vernal Pools

Surveys were completed for State regulated vernal pools (i.e., Significant Vernal Pools) as well as vernal pool and amphibian breeding functions present but not regulated by the State. No vernal pools or vernal pool obligate species were identified within study area. Visits were made during both peak wood frog breeding season (April 25-May 10) and peak salamander season (May 5- May 25). Specifically, four visits were completed on May 3, May 21, May 22, and May 23. Several of the wetlands did support amphibian habitat for green frogs and bullfrogs, but no vernal pool species. These areas are considered amphibian breeding areas by the USACE, but are not State-regulated vernal pools.

3.2 Wetlands

Wetland delineations were completed in May (21, 22, and 23) and June (10). Wetland types included primarily palustrine emergent marsh (PEM), palustrine forested (PFO), with occasional sub-dominant areas of palustrine scrub-shrub (PSS) (Figure 1 and 2). The dominant wetland type is PEM which occurs as wet meadow in areas used for agriculture (hay).

Hydrologic indicators within identified wetlands were generally related to high or perched water tables (due to dense marine clay sub-soils) or saturation. Wetlands associated with streams had drainage channels as well as evidence of frequent or occasional flooding (e.g., drift lines, water staining, etc).

A complete listing of vegetation observed within delineated wetlands is presented in Table 3.2-1 along with scientific nomenclature. Vegetation within non-forested emergent wetlands was dominated by grasses, sedges, and rushes. These wet meadow wetlands occur primarily within hay fields where the vegetative community has been modified by agricultural activity. Dominant species in these wetlands included fowl meadow grass, reed canary grass, and bedstraw (Photo 1). In wetter portions of the fields sensitive fern, cattail, soft rush, or barber pole sedge were observed. These areas are wet enough that mowing occurs less frequently.



Photo 1: Representative Emergent (wet meadow) within a hay field.



Forested wetlands tended to be dominated by red maple, balsam fir, green ash, and hemlock. Herbaceous vegetation within forested wetlands was sparse but often included sensitive fern, creeping buttercup, jewel weed, and bedstraws. Shrub layer vegetation within forested habitats tended to be dominated by speckled alder, invasive non-native honeysuckle shrubs (Morrow's and Tartarian honeysuckle), and green ash saplings (Photo 2).

Photo 2: Representative Forested wetland





Scrub-shrub wetlands were uncommon, and associated with Trafton Brook this area was dominated by speckled alder, winterberry, and willow. Occasional over story species consisting of green ash, red maple, or black willow were observed. Herbaceous vegetation included sensitive fern, jewelweed, cattail, royal fern, reed canary grass and ostrich fern (Photo 3).

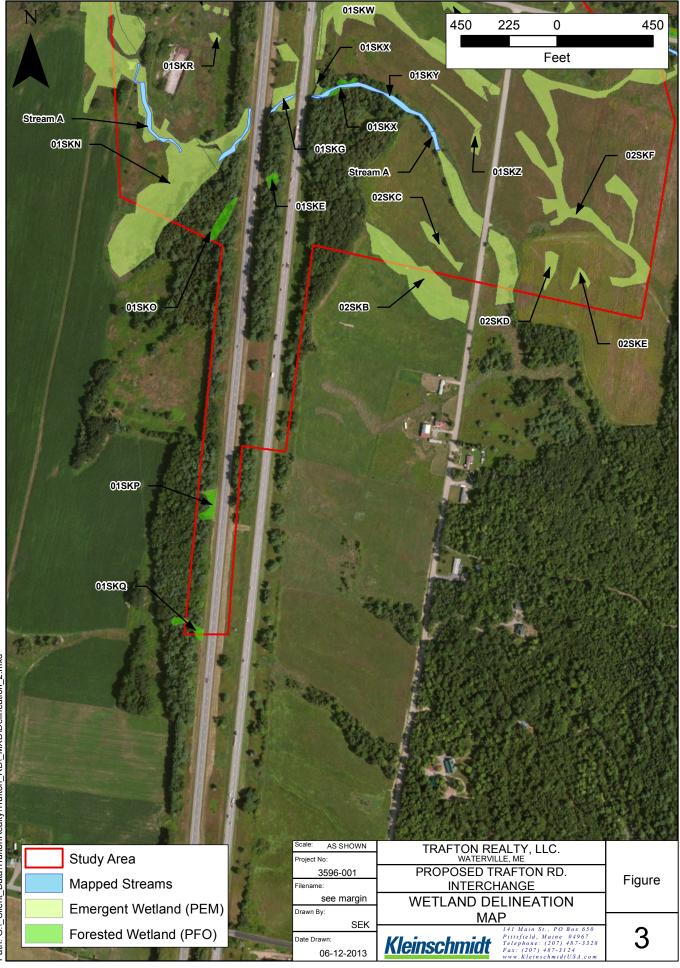
Photo 3: Representative area of Scrub-Shrub (Photo left)







Path: G:_Client_Data\TraftonRealty\Trafton_RD_MXD\Delineation_1.mxd



Path: G:_Client_Data\TraftonRealty\Trafton_RD_MXD\Delineation_2.mxd

Common Name	Scientific Name
white pine	Pinus strobus
white cedar	Thuja occidentals
eastern hemlock	Tsuga canadensis
red spruce	Picea rubens
paper birch	Betula papyrifera
American beech	Fagus grandifolia
Canada mayflower	Mianthemum canadense
sensitive fern	Onoclea sensibilis
reed canary grass	Phalaris arundinacea
jewel weed	Impatiens capensis
bristly black nightshade	Solanum dulcamara
creeping buttercup	Ranunculus arundinacea
balsam fir	Abies balsamea
Morrow's honeysuckle	Lonicera morrowii
commonn juniper	Juniperus communis
silver cinquefoil	Potentilla argenta
Virginia creeper	Parthenocissus aquinefolia
cattail	Typha latifolia
American elm	Ulmus americana
green ash	Fraxinus pennsylvanica
speckled alder	Alnus incana
hawkweed	Hieracium caespitosum
timothy grass	Phleum pratense
tall buttercup	Ranunculus acris
Fowl meadow grass	Poa palustris
Kentucky bluegrass	Poa pratensis
common chickweed	Stellaria media
bluet	Houstonia caerulea
rough bedstraw	Gallium asprellum
sweet vernal grass	Anthoxanthum odoratum
American basswood	Tilia americana
black cherry	Prunus serotina
black willow	Salix nigra
meadow sweet	Spiraea alba
steeple bush	Spiraea tomentosa
interrupted fern	Osmunda claytonia
field horsetail	Equisetum arvense
soft rush	Juncus effusus
barber pole sedge	Schoenoplectus tabernaemontani
fox sedge	Carex vulpinoidea
fringed sedge	Carex crinita
tussock sedge	Carex stricta

Table 3.2-1. Common Vegetation Identified within the Study Area



Common Name	Scientific Name
broom sedge	Carex scoparia
royal fern	Osmuna regalis
marsh bedstraw	Gallium palustre
wool grass	Scirpus cyperinus
dark green bulrush	Scirpus atrovirens

Most wetland soils within the study area have been impacted by historic agricultural activities or development (e.g., interstate I-95). However, historic agricultural use did not present problems with the identification of hydric soils. Soils within the area are primarily derived from marine sediment with Scantic and Buxton soils being predominant. These soil series are poorly drained to moderately well drained, respectively. In some locations, areas of Hartland, Hollis, Paxton-Charlton, Scio, and Woodbridge are present, but less commonly than Scantic and Buxton (USDA, 1978). The vast majority of wetland soils within the study area were identified as having a depleted matrix. A typical wetland soil profile for the site is an Ap 0-6" 10 YR 3/1, silt loam underlain by a Bg 8-16" 2.5 Y 5/2, silt loam with prominent redoximorphic features (10 YR 5/6). Generally below 16" soils within the area are very firm and dominated by silt and clay.

A total of 6 paired USACE sample plots were completed and are presented in Table 3.2-2, completed USACE data forms are included as appendix A.

Wetland	USACE		
ID	Plot	Longitude	Latitude
01SKN	UP	69° 42' 16.260" W	44° 30' 19.920" N
01SKN	WET	69° 42' 16.860" W	44° 30' 20.100" N
01SKO	UP	69° 42' 16.354" W	44° 30' 16.806" N
01SKO	WET	69° 42' 16.516" W	44° 30' 16.871" N
01SKW	WET	69° 42' 8.580" W	44° 30' 26.400" N
01SKW	UP	69° 42' 8.138" W	44° 30' 26.089" N
01SKX	UP	69° 42' 9.532" W	44° 30' 23.682" N
01SKX	WET	69° 42' 9.350" W	44° 30' 23.549" N
02SKM	UP	69° 42' 8.340" W	44° 30' 36.360" N
02SKM	WET	69° 42' 8.220" W	44° 30' 36.180" N
03SKM	WET	69° 41' 22.397" W	44° 30' 21.659" N
03SKM	UP	69° 41' 21.991" W	44° 30' 21.576" N

Table 3.2-2. USACE Wetland Sample Plot Locations	Table 3.2-2.	USACE	Wetland	Sample	Plot I	Locations
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3.3 Streams

Two streams (Stream A and Trafton Brook) were identified within the study area. Figure 5 shows the location of mapped streams.



Stream A is a small intermittent drainage that conveys flows west to east across the I-95 corridor. The stream becomes perennial immediately east of the study site. Intermittent drainage is 2-6' in width in most channelized locations. A defined channel exists at the stream's origin, near an old farm pond and associated wetland, in the western portion of the project area. Much of this portion of the stream is located in one of the wheel tracks of a gravel road (see photo below). The stream maintains a channel for approximately 400-500 feet and then enters a large emergent wetland. As determined during site surveys in May and June of 2013, a defined channel (or braided channel) is not present within this wetland. A defined channel was mapped exiting the emergent wetland as the stream follows a storm water ditch along I-95 and then crosses the interstate via ~24-inch corrugated metal pipes (Photo 4).

Photo 4. View of Stream A culvert



Immediately east of I-95, the stream flows through a wooded area where the stream substrate is predominantly cobble, boulder and gravel (Photo 5). Through this forested stretch, the channel is narrow and well-defined and micro-habitat is formed by large wood and boulders. After exiting the forested area, the stream enters an agricultural area (mowed field) and becomes poorly-defined (Photo 6). Through this stretch, the stream is over-widened and embedded by fine materials (fine sand and silt). During a site visit in April 2013, the stream was not flowing through this stretch, whereas the less degraded forested stretch was flowing. This is likely due to the surface flows infiltrating into the matrix of the deep, fine-textured substrate in the emergent (wet meadow) wetlands located in the low portions of the mowed field. The defined stream channel is lost within this emergent wetland and does not become defined again until further to the east, after crossing the Junction Road through a 24 inch corrugated metal pipe. All areas, aside from the forested portion, are dominated by fine materials (silt and fine sand) and water depths in channels ranged from 0-18 inches with the deeper locations being associated with culverts (e.g., plunge pools).



Photo 5. Representative photo of forested section of Stream A, where there is a well-defined channel.



Photo 6. Photo of emergent wetland near Junction Road (no defined channel).



Trafton Brook is a perennial stream which crosses Trafton Road through a ~36" corrugated metal pipe (Photo 7). There is no outlet perch associated with the crossing, but the bottom of the culvert is degraded (i.e., rust/corrosion). The inlet of the culvert has a slight perch due to accumulated debris and sediment. A second 24" corrugated metal



pipe has been installed at a higher elevation to mitigate for high water flow events. The stream width up and downstream of the crossing ranges from 3-10' with the widest area being associated with a pool at the culvert outlet. Substrates for the stream are coarser downstream of the culvert and consisted of gravel, cobble and sand over dense subsurface clay (Photo 8). Upstream of the culvert the substrates are finer materials and include primarily silt and sand. Water depth with the portion of the stream that was visited ranged from 0-36" with the deepest water depths identified upstream of the culvert.

Photo 7. Trafton Brook culvert crossing





Photo 8. Representative substrate, downstream of Trafton Road



3.4 Functions and Values

The principle functions of the wetlands within the study area are wildlife habitat, sediment/toxicant retention, and nutrient removal and retention (data forms are included in Appendix B). Secondary functions include flood flow attenuation. Wetlands identified within the study area offer little value (*i.e.*, recreation, scenic value, etc) as most have some level of historic disturbance from residential development and/or agriculture. Wetlands in the study area are generally characterized by disturbed (cut and fill) soils, and a lack of high quality habitat. Reed canary grass dominates the emergent wetlands and there is low native plant diversity. The topography has been historically smoothed by agriculture, grading and sediment deposition. There are no vernal pools. There is a lack of micro-habitat (no snags, no pit-and-mound topography, no seasonally ponded areas used by herptiles). Areas with woody vegetation have more invasive honeysuckle than native berry-producing shrubs such as viburnums.

4.0 Discussion

Wetlands within the study area generally have some level of historic disturbance from road construction, residential construction, or agricultural activities. Wetlands that would be unavoidably impacted by the proposed interchange are primarily located within active hay fields or areas disturbed by farm pond excavation or historic fill from access roads for farm equipment. Soils are derived from cut and fill material and dominant plant species include invasives such as reed canary grass. Streams on the site are also impacted, especially Stream A which is overwidened filled with sediment from historic farm practices.



5.0 References

- U.S. Army Corps. of Engineers (USACE). 1987. Corps. of Engineers Wetland Delineation Manual. U.S. Army Corps. of Engineers. 143 pp.
- USACE. 2001. The Highway Methodology Workbook. U.S. Army Corps. of Engineers New England District. 29 pp. NAEEP-360-1-30a.
- USACE. 2009. Interim Regional Supplement to the Corps. of Engineers Wetland Delineation Manual: Northcentral and Northeast Region. U.S. Army Corps. of Engineers. 179 pp.
- United States Department of Agriculture (USDA). 1978. Soils Survey of Kennebec County Maine.

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APPENDIX A USACE DATA FORMS



WETLAND DETERM	/INATION DATA FORM - Nort	thcentral and Northeast Region
Project/Site: TRAFTON RD.	City/County: <u>WA</u>	TERUFLUE, KENNEBE Sampling Date: <u>6-5-13</u>
Applicant/Owner: TRAPTON REA	ACTY LC	State: <u>ME</u> Sampling Point: <u>OISKD-</u> UPL
Investigator(s):SEK	Section, Township). Range:
Subregion (LRR or MLRA):	tat: 69° - 42'- 16,516"W	convex, none): <u>CONCAVE</u> Slope (%): <u>0-2</u> % Lar Long: <u>44[*]-30[*]-16,871″ N</u> Datum: <u>W65 84</u>
Soil Map Unit Name: HCC - Hollis Goa	Sondy Loam	NWI classification: NOT MARED
Are climatic / hydrologic conditions on the site typi	and for this time of year? Yes	(If no, ovalajn in Romarks)
		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sam	pled Area
Hydric Soil Present? Yes	No // Is the Sam	etland? Yes <u>No</u>
Wetland Hydrology Present? Yes		onal Wetland Site ID:
Remarks: (Explain alternative procedures here of		
IYDROLOGY		
Wetland Hydrology Indicators: NOME		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Valer Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living F	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No		
Saturation Present? Yes No		Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspect	tions), if available:
Remarks:		

Sampling Point: 0560-0P

Troo Strotum (Plot aizo:	Absolute	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1. <u>Piaus Strobas</u>	<u>50</u>	<u>Species:</u> Y	FACU	Number of Dominant Species
	- <u> </u>		FACU	That Are OBL, FACW, or FAC: (A)
2. <u>Tsuga occidon talis</u>		γ	FACU	Total Number of Dominant Species Across All Strata:
3. Picea rubens				Species Across All Strata: (B)
4. <u>Betula paporcifaa</u>	20		FALL	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				
6		Lat		Prevalence Index worksheet:
7	1200			Total % Cover of:Multiply by:
	125	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1. Pinus Strobus		<u> </u>	FALV	FAC species x 3 =
2. Fague grandifolia	15	<u> </u>	FACU	FACU species x 4 =
3. Rotula papirileca			FACU	UPL species $x 5 =$ (A)
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.		,	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
1	55	= Total Co		2 - Dominance Test is >50%
		= Total Co	ver	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size:)	00	~	FACU	4 - Morphological Adaptations ¹ (Provide supporting
1. Mighthemum andonse		<u>Y</u>		data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3	<u> </u>			¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12			B	Woody vines – All woody vines greater than 3.28 ft in
12.	20	= Total Co		height.
		- 10(a) 00	vei	
Woody Vine Stratum (Plot size:)				
1			·····	
2	- <u> </u>			
3			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Hydrophytic Vegetation
4				Present? Yes No
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Harb lavar sacre has be care		. /		
Herb layer sparse due to cano	ey cor			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	<u>Matrix</u> Color (moist)	% Color	Redox Fo (moist)	eatures % Type ¹	Loc ²	Texture	Remarks	
1-07	N/A		(110131)	<u> </u>		Organic	Puff	
0-2"	10 YR 3/1	N	NE			Organic		
2-4"	10 YR 3/2	NO	NE			Sandy Logm		
4-12"	10 YR 5%	No	NE			Sandy Logan		
12-16"	7.5 YR 5/4	NON	16			Sandy Loam		
							<u> </u>	
			·····					
	oncentration, D=Deple	tion, RM=Reduced	Matrix, MS=N	Aasked Sand Grai	ins.	² Location: PL=Pore Lir	ning, M=Matrix.	
Hydric Soil Histoso	NON	E	value Below S	urface (S8) (LRR	R.	Indicators for Problema 2 cm Muck (A10) (L	RR K, L, MLRA 149B)	
Histic E	pipedon (A2)	M	LRA 149B)			Coast Prairie Redox	(A16) (LRR K, L, R)	
	istic (A3) en Sulfide (A4)			(S9) (LRR R, ML eral (F1) (LRR K,		5 cm Mucky Peat or Dark Surface (S7) (L	Peat (S3) (LRR K, L, R)	
	d Layers (A5)		ny Gleyed Mat		-/	Polyvalue Below Sur	face (S8) (LRR K, L)	
	d Below Dark Surface		eted Matrix (F			Thin Dark Surface (S		
	ark Surface (A12) Mucky Mineral (S1)		ox Dark Surface eted Dark Sur				sses (F12) (LRR K, L, R) Soils (F19) (MLRA 149B)	
	Gleyed Matrix (S4)		ox Depression			Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)	
	Redox (S5)					Red Parent Material Very Shallow Dark S		
	d Matrix (S6) ırface (S7) (LRR R, ML	.RA 149B)				Other (Explain in Re		
³ Indicators o	of hydrophytic vegetatio	n and wetland hyd	rology must b	e present, unless	disturbed	or problematic.		
	Layer (if observed):	·····	····					
Type: Depth (in	veboe):					Hydric Soil Present?	/es No_ <u>/</u>	
Remarks:						-		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site:	TRAFTON	V RD	City/	County:	IATERVELLE,	KENNEBEL	ampling Date: 015K0	-WET
Applicant/Owner:	RAFTON RI	EALTY, LLC	s			State: <u>ME</u>	Sampling Point:	ET
Investigator(s):	3	Sek	Sect	ion, Townsl	hip, Range:	WATERUI	UF	
Landform (hillslope, to	errace, etc.):	SMALL BAS:	⊆ <i>M</i> Local re	lief (concav	ve, convex, none)	<u>CONCA</u>	VE Slope (%):	0
Subregion (LRR or M	LRA):	Lat: <u>4</u>	<u>4° - 30' 16.</u>	871" N	Long: <u>69°</u>	42' 16,516	<u>ຟ</u> Datum: <u>ຟ (໑</u> ິ	84
Soil Map Unit Name:	HrC-+	Iollis Fine	Sandy logi	A		_ NWI classificati	on: <u>NOT MAPPE</u>	()
Are climatic / hydrolog	gic conditions on	the site typical for	his time of year?	Yes 🔀	_ No (If	no, explain in Rem	narks.)	
Are Vegetation	_, Soil, o	r Hydrology	significantly distu	rbed?	Are "Normal C	ircumstances" pres	sent? Yes 📈 No _	
Are Vegetation	_, Soil, o	r Hydrology	_ naturally problem	atic?	(If needed, exp	olain any answers i	in Remarks.)	
SUMMARY OF F	INDINGS - /	Attach site ma	p showing sar	npling p	oint location	s, transects, i	mportant features,	etc.
Hydrophytic Vegeta	tion Present?	Yes <u>X</u>	No		ampled Area			
Hydric Soil Present		Yes 🔀	No	within a	Wetland?	Yes <u>X</u>	No	
Wetland Hydrology	Present?	Yes 📉	No	If yes, op	tional Wetland S	ite ID:		

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
∑ Surface Water (A1) ∑ Water-Stained Leaves (B9)	🔀 Drainage Patterns (B10)
🔀 High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
🔀 Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living F	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	ils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): AT SURFACE	
Water Table Present? Yes <u>×</u> No Depth (inches): <u>4</u> [#]	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> ["]	Wetland Hydrology Present? Yes <u>×</u> No
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe)	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe)	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
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Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>×</u> No Depth (inches): <u>2</u> [#] (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

Sampling Point: OISKO-WET

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	
1. NONE ARESENT				Number of Dominant Species (A)
2				
				Total Number of Dominant Z (B)
3				
4			<u></u>	Percent of Dominant Species / 00 % (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
		- Total Cov	/ei	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1. NONE PRESENT	·			
2				FACU species x 4 =
3				UPL species X 5 = (A)
				Column Totals: (A) (B)
4 5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				\ge 2 - Dominance Test is >50%
		= Total Cov	ver	3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot size:)				4 - Morphological Adaptations ¹ (Provide supporting
1. <u>Onoclea</u> sensibilis	_25_	<u> </u>	FACW	data in Remarks or on a separate sheet)
2. PHalaris arundinacea	10			Problematic Hydrophytic Vegetation ¹ (Explain)
3. <u>Panunculus repens</u>			FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Impatiens capensis				be present, unless disturbed or problematic.
5. Solanum dulcumaca			FAC	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10			<u></u>	Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12		<u></u>		Woody vines – All woody vines greater than 3.28 ft in height.
	80	= Total Cov	ver	
Woody Vine Stratum (Plot size:)				
1.				
2				
3				Hydrophytic Vegetation
4				Present? Yes <u>No</u>
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
	,		an and and a	at at the definition
WETLAND IS NARROW BASIN	WITH	UPLAN	DIRE	Z CODEK

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redo	x Feature	3	_Loc ²	Terture	Demontro	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹		<u>Texture</u> Mucky	Remarks	
0-4"	/ / / / / / / / / / / / / / / / / / / /								
4- 14"	10 YR 5/2	60	10 YR 5/6	40			Silt loum		
		<u>.</u>	·····				<u></u>		
		······			<u></u>				
				-		. <u></u>			
. <u></u>							·		
					·				
			=Reduced Matrix, MS				² Location: PL=Pore	Lining M=Matrix	
Hydric Soil I		etion, Rivi	-Reduced Matrix, M	5-IVIdSKet	Sanu Gr	an 15.		ematic Hydric Soils ³ :	
Histosol			Polyvalue Belov	w Surface	(S8) (LRI	R.) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)				Coast Prairie Re	dox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfa					t or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Loamy Mucky M			, L)	Dark Surface (S7		
	l Layers (A5) I Below Dark Surface	ο (Δ11)	Loamy Gleyed)		Thin Dark Surfac	Surface (S8) (LRR K, L) e (S9) (LRR K, L)	
· — ·	ark Surface (A12)		Redox Dark Su					Masses (F12) (LRR K, L, R)	
	lucky Mineral (S1)		Depleted Dark					lain Soils (F19) (MLRA 149B)	
	ileyed Matrix (S4)		Redox Depress	ions (F8)				A6) (MLRA 144A, 145, 149B)	
	edox (S5)						Red Parent Mate		
	Matrix (S6)		> \				Very Shallow Da Other (Explain in	rk Surface (TF12)	
	face (S7) (LRR R, N	ILKA 149)					(Celliario)	
		ion and w	etland hydrology mus	t be prese	ent, unles	s disturbed	l or problematic.		
	ayer (if observed):								
Туре:	NONE							¥ ¥ N	
Depth (inc	ches):						Hydric Soil Present?	Yes <u> </u>	
Remarks:									

1

Applicant/Owner: <u>TRAFTON REALS7</u> Investigator(s): <u>SETZ</u> Landform (hillslope, terrace, etc.): <u>BA33</u>	City/County: <u>اللامتحادين</u> ، المال ، Section, Township, Rang	ELLE KENNEBEL Sampling Date: 06-05-1. State: ME Sampling Point: UPLANE
Applicant/Owner: <u>TRAFTON REALS7</u> Investigator(s): <u>SETZ</u> Landform (hillslope, terrace, etc.): <u>BA33</u>	,126	State: <u>/// E</u> Sampling Point: <u>UPLANK</u>
Investigator(s): <u>SER</u> Landform (hillslope, terrace, etc.): <u>BA3</u> 3	Section, Township, Rang	P. WATER UTUE
Landform (hillslope, terrace, etc.):		
	Local relief (concave, conve	
Subragion (LRR or MLRA):	Lat: 440-30-19,970 W Long.	69° 42' 16,260" W Datum: WGS 84
	vpical for this time of year? Yes <u>></u> No	
		ormal Circumstances" present? Yes $\underline{\times}$ No
Are Vegetation, Soil, or Hydrolog	gy naturally problematic? (If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point loc	cations, transects, important features, etc.
[In the Complete A	
Hydrophytic Vegetation Present? Yes	No <u>×</u> Is the Sampled A No × within a Wetland	
	NO	
Wetland Hydrology Present? Yes Remarks: (Explain alternative procedures here)		etland Site ID:
Remarks. (Explain alternative procedures here		
HYDROLOGY		
Wetland Hydrology Indicators: NONE		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required	d; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		(C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:		
	o <u>X</u> _ Depth (inches):	
	o_ <u>≽</u> Depth (inches):	
(includes capillary fringe)		and Hydrology Present? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspections),	if available:
Demodes		
Remarks:		

Sampling Point: OISKN-UP

· · · · · · · · · · · · · · · · · · ·	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: <u>30</u>)		Species?		Dominance Test worksheet:	
1. Betula papycifica	25	Y	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	
2. <u>Pinus strabus</u>					Ŷ
3. Abies balsamen	15	······	<u></u>	Total Number of Dominant Species Across All Strata:	21
		<u></u>)
4				Percent of Dominant Species	(5)
5		· · · · · · · · · · · · · · · · · · ·		That Are OBL, FACW, or FAC: (A	VB)
6				Prevalence Index worksheet:	
7				Total % Cover of:Multiply by:	
	65	= Total Co	ver	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size:/ 5)				FACW species x 2 =	
1. Pinus strobus	7.5	~	FACU	FAC species x 3 =	
2. Lonicera Marcowii	15		FACU	FACU species x 4 =	
2. <u>Contrea Merroun</u>		/		UPL species x 5 =	
3. <u>Botula papyrifica</u> .		<u> </u>	FACU	Column Totais: (A) ((B)
4. Abies balsamea		<u> </u>			
5. JUNIDERUS COMMUNIS	5			Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	9.5	= Total Cov		2 - Dominance Test is >50%	
Herb Stratum (Plot size:)				3 - Prevalence Index is ≤3.0 ¹	
1. Parthenocissus quingefolia	20	V	FALV	 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 	ting
All all and a constant of only of the			FALU	Problematic Hydrophytic Vegetation ¹ (Explain)	
2. <u>Minsthemun conadense</u>			<u> </u>		
3. Potentilla argenta				¹ Indicators of hydric soil and wetland hydrology mus	t
4.	· ·····	<u></u>		be present, unless disturbed or problematic.	•
5				Definitions of Vegetation Strata:	
6					
7				Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.	eter
8					
9				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
10					
				Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	SS
	14 KE-MOLALIPOL				
12	1 8 million		<u> </u>	Woody vines – All woody vines greater than 3.28 ft height.	In
	<u>45</u>	= Total Cov	er	5	
Woody Vine Stratum (Plot size:)					
1		57-24-barren - barren -			
2					
3				Hydrophytic	
4				Vegetation	
······································				Present? Yes No X	
Pemarka: (Include photo numbers here or on a concrete a		= Total Cov	er		
Remarks: (Include photo numbers here or on a separate s	sneet.)				

Profile Description: (Describe to the	depth needed to docur	nent the i	ndicator	or confirm	m the absence of indicators.)	
Depth	Matrix	Redo	x Features	<u>.</u>			
	(moist) %	Color (moist)	%	_Type ¹ _	Loc ²	Texture Remarks	
0-3" 10 YR	3/2					SANDY LORM	
3-10" 10 y	R. 3/4						
10-16" 7.5	YR 5/4					J	
				*********	<u></u>		
							-
					<u> </u>		
					······		
						· · · · · · · · · · · · · · · · · · ·	-
							_
		·····	h.u				_
		st	·····				_
1							
'Type: C=Concentration Hydric Soil Indicators	on, D=Depletion, I	RM=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
Histosol (A1)	·NONE	Polyvalue Belov	/ Surface ((S8) (LRE	R.	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Epipedon (A	2)	MLRA 149B)		(00) (214	,	Coast Prairie Redox (A16) (LRR K, L, R)	
Black Histic (A3)		Thin Dark Surfa			,	· · · · · · · · · · · · · · · · ·	
Hydrogen Sulfide (Stratified Layers (A		Loamy Mucky M Loamy Gleyed N			L)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)	
Depleted Below Da						Thin Dark Surface (S9) (LRR K, L)	
Thick Dark Surface	e (A12)	Redox Dark Sur	face (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mine		Depleted Dark S		7)		Piedmont Floodplain Soils (F19) (MLRA 149	
Sandy Gleyed Matrix Sandy Redox (S5)		Redox Depressi	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149E Red Parent Material (F21)	3)
Stripped Matrix (S6						Very Shallow Dark Surface (TF12)	
Dark Surface (S7)	(LRR R, MLRA 1	49B)				Other (Explain in Remarks)	
³ Indicators of hydrophyl	tic vocatation and	wetland hydrology mus	ha nrana	at unlogo	diaturhad	t or problematic	
Restrictive Layer (if ol	bserved):	r wettand hydrology mus	be preser	n, uniess	aisturbea		
Туре:							
Depth (inches):						Hydric Soil Present? Yes No 🖂	
Remarks:							

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: TRAFTON RD. City/C	County: WATER VELLE, KENNEBEC Sampling Date: 06-5-13
	State: <u>ME</u> Sampling Point: <u>OISKN-</u> WE
Investigator(s): SEK Section	
	ief (concave, convex, none): <u>CONCAUE</u> Slope (%): <u>O-8</u> %
Subregion (LRR or MLRA): Lat: <u>-446 - 306 - 20</u> ,	
Soil Map Unit Name: ScA - Scantic sitt logm	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes $\underline{\times}$ No Hydric Soil Present? Yes $\underline{\times}$ No	Is the Sampled Area within a Wetland? Yes <u> </u>
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Portions of welland disturbed by historic welland boundary / soils not disturbed :	
	significanty is impact active after
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	
Kinds (Math (M)) Kinds (Math (M)) Kinds (M) Kinds (M) Kinds (M) Kinds (M) <td> Moss Trim Lines (B16)</td>	Moss Trim Lines (B16)
∑ Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odd	
Sediment Deposits (B2) Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced	I Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) 🔀 Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	C7) Shallow Aquitard (D3)
K Inundation Visible on Aerial Imagery (B7)	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches):	<u> </u>
Saturation Present? Yes 🚬 No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections) if available:
Remarks:	
Large PEM wetland complex associated	
(no longer in use) ponds now filled w/	emergent veg,

.

Sampling Point: 015KN-WET

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u> </u>		Species?		Dominance Test worksheet:
				Number of Dominant Species
1	·	·····		That Are OBL, FACW, or FAC: (A)
2				Total Number of Demoister
				Total Number of Dominant Species Across All Strata: (B)
3	·	·	<u></u>	Species Across All Strata: (B)
4		"		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:/A)				FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2			<u></u>	UPL species x 5 =
3				
				Column Totals: (A) (B)
4	. <u></u>			
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				
7.				2 1 - Rapid Test for Hydrophytic Vegetation
4		= Total Cov	/er	2 - Dominance Test is >50%
Herb Stratum (Plot size:5 /		rotar oor		3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size:2)			~	4 - Morphological Adaptations ¹ (Provide supporting
1. IMPAtiens rapinsis	20	7	FACW	data in Remarks or on a separate sheet)
2. Onoclea sensibilis			EACUS	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phalacis grandingcan	10	<u></u>	FACW	1. Alterations of hudging and unational hudgets our must
4. Typha lutifolia			ORL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		<u> </u>		at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10			<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
12	<u> </u>			height.
		= Total Cov	/er	
Woody Vine Stratum (Plot size:)				
1	·	<u> </u>		
2				
3	·			Hydrophytic Vegetation
4				Present? Yes No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s				
Remarks. (include photo numbers here of on a separate s	neet.)			

Profile Des	cription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirn	n the absence of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Redo: Color (moist)	<u>x Feature</u> %	s Type ¹	Loc ²	Texture	Remarks
<u>(inches)</u> <i>O-</i> 8	10 YR 3/1	100		70	туре		Organic	Remarks
8-16"	· · · · · · · · · · · · · · · · · · ·	70	10 YR 5/6	30			Silt loam	
			/			- <u></u> \		
					· ·····			
				,	. <u></u>			
			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				<u></u>	
	,,,,_,_,_,,_,,,,,,,,,,,,,,,,,	·	<u></u>	<u> </u>	. <u> </u>			
	opcentration D=Den	etion RM				aine	² Location: PL=Pore Lini	na M=Matrix
Hydric Soil			-reduced matrix, me	-masket		anis	Indicators for Problemat	
Histosol			Polyvalue Belov		(S8) (LRI	٦R,	2 cm Muck (A10) (LR	
	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa			DA 1400	Coast Prairie Redox (A16) (LRR K, L, R) Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky M				Dark Surface (S7) (LF	
i i	d Layers (A5)		Loamy Gleyed N		:)		Polyvalue Below Surfa	
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Sur	• •			Thin Dark Surface (S9 Iron-Manganese Mass	
	lucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain S	
	Bleyed Matrix (S4)		Redox Depressi	ons (F8)				MLRA 144A, 145, 149B)
	Redox (S5) Matrix (S6)						Red Parent Material (
	rface (S7) (LRR R, N	/ILRA 149E	3)				Other (Explain in Rem	
³ Indicators o	f hydrophytic vegetal	lion and we	tland hydrology musi	t be prese	ent, unless	s disturbed	or problematic.	
	Layer (if observed):			••••				
Type:	NONE							\checkmark
Depth (inc	ches):						Hydric Soil Present? Ye	es <u>×</u> No
Remarks:								

WETLAND DETERMINATION DATA FORM -- Northcentral and Northeast Region

Project/Site: TRAFTON	<u> </u>	City/0	County: WAT	ERUTUE,	KENNEBECS	ampling Date:	06-5-13
Applicant/Owner: TRAFT	UN REALTY.	666			State: ME	Sampling Pol	int: <u>015KX-U</u> P
Investigator(s):							
Landform (hillslope, terrace, et							
Subregion (LRR or MLRA):							
Soil Map Unit Name: ScA							
Are climatic / hydrologic conditi							Yan
		-			-		1.00
Are Vegetation, Soil							<u></u>
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If needed, ex	plain any answers	in Remarks.)	
SUMMARY OF FINDING	S – Attach site	map showing san	npling poir	nt locatior	ns, transects, i	mportant f	eatures, etc.
Hydrophytic Vegetation Prese Hydric Soil Present?		No No	Is the Samp within a We		Yes <u>×</u>	No	_
Wetland Hydrology Present?			If yes option		Site ID:		
Remarks: (Explain alternative							
HYDROLOGY							
Wetland Hydrology Indicato	ITS: NONE			5	Secondary Indicator	rs (minimum o	f two required)
Primary Indicators (minimum	of one is required; che	eck all that apply)		<u> </u>	Surface Soil Cracks (B6)		
Surface Water (A1)		_ Water-Stained Leave	. ,		Drainage Patte	rns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B13)		_	Moss Trim Line		
Saturation (A3)	-	_ Marl Deposits (B15)		-	_ Dry-Season Wa)
Water Marks (B1)	_	_ Hydrogen Sulfide Od			Crayfish Burrov		(20)
Sediment Deposits (B2)	_	_ Oxidized Rhizospher	-				
Drift Deposits (B3) Algal Mat or Crust (B4)		Presence of Reduced Recent Iron Reduction			Stunted or Stree Geomorphic Pc		(1)
Iron Deposits (B5)		Thin Muck Surface (0		lis (CO) _	Shallow Aquitar		
Inundation Visible on Aer	ial Imagery (B7)	_ Other (Explain in Rer			Microtopograph		
Sparsely Vegetated Conc	U , , , , , , , , , , , , , , , , , , ,				FAC-Neutral Te		
Field Observations:	·····						
Surface Water Present?	Yes No _X	Depth (inches):					
Water Table Present?	Yes No <u>_</u>	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches):		Wetland Hy	drology Present?	Yes	No <u>/</u>
Describe Recorded Data (stre	am gauge, monitorinç	well, aerial photos, pre	vious inspecti	ons), if availa	able:		
Remarks:							
. tomanio							

Sampling Point: OISKX-UP

······································	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30</u>)		Species?		Dominance Test worksheet:
1. Ulmus gnoricana	5		FALW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
	15	k		
			-	Total Number of Dominant 5 (B)
3. Prinus strabus		Y	FACU	Species Across All Strata: (B)
4				Percent of Dominant Species 20 % (A/P)
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7		<u>.</u>		Total % Cover of: Multiply by:
a second and as	100	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15)				FACW species x 2 =
1. Fraxinus ponnsulvanica	25	Y	FALW	FAC species x 3 =
	15	У	FACU	FACU species x 4 =
2. Tsuga occidentalla	Ger			UPL species x 5 =
3. (Ilmus andricant				Column Totals: (A) (B)
4				
5			. <u> </u>	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	45			2 - Dominance Test is >50%
e (-10	= Total Co	ver	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size:5)		× /		4 - Morphological Adaptations ¹ (Provide supporting
1. PRAthenocissus quanquefolia	10	<u> </u>	FACU	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3			· ····	¹ Indicators of hydric soil and wetland hydrology must
4	·		. <u></u>	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		. <u></u>		of size, and woody plants less than 5.20 it tail.
12				Woody vines - All woody vines greater than 3.28 ft in
	10	= Total Co	ver	height.
Woody Vine Stratum (Plot size:)	<u></u>			
1	·	NAMO	· <u> </u>	
2				
3				Hydrophytic
4				Vegetation
		= Total Co	vor	Present? Yes <u>No </u>
Demarka: (Include photo numbers here or on a congrete		- 10141 00	VCI	
Remarks: (Include photo numbers here or on a separate s	sneet.)			

Profile Deso Depth	cription: (Describe Matrix	to the dep		ment the ox Feature		or confirm	the absence of indi	cators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3"	2,5 Y 4/2	160					silt loam		
3-10"	2,5 4 5/3	100					1 constants		
10-12"	2.54 5/2	75	16 YR 5/6	25		M			
					- <u></u> ,				
		<u></u> ,		<u> </u>		<u> </u>			
	1				. <u></u>		<u> </u>		
	·····						<u> </u>	· · · · · · · · · · · · · · · · · · ·	
			·····						
¹ Type: C=C	oncentration, D=Depl	etion RM	=Reduced Matrix M	 S=Masker	 d Sand Gr	ains	² Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil	Indicators: NON	5,	rieddood mainx, m	o muonet				oblematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Belo		(S8) (LRF	RR,		10) (LRR K, L, MLRA 149B)	
	oipedon (A2) istic (A3)		MLRA 149B Thin Dark Surfa			RA 149R)		Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Mucky I				3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, I Dark Surface (S7) (LRR K, L)		
	d Layers (A5)	<i></i>	Loamy Gleyed		2)			ow Surface (S8) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Su					face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R)	
	lucky Mineral (S1)		Depleted Dark					odplain Soils (F19) (MLRA 149B)	
	Gleyed Matrix (S4)		Redox Depress	sions (F8)				(TA6) (MLRA 144A, 145, 149B)	
	Redox (S5) I Matrix (S6)						Red Parent M Verv Shallow	aterial (F21) Dark Surface (TF12)	
	rface (S7) (LRR R, M	LRA 1491	B)				Other (Explain		
³ Indicators o	f hydrophytic vegetati	on and we	etland hydrology mus	st be prese	ent. unless	disturbed	or problematic.		
	Layer (if observed):		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Туре:	<u>AIONE</u>							N	
Depth (inc	ches):						Hydric Soil Preser	nt? Yes No X	
Remarks:									

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: TRAFTON, CO	City/County:ATERNELLE, KENNEGF Sampling Date:06-5-13
Applicant/Owner: TRAFTURY REALTY	State: ME Sampling Point: 015EX-WET
Investigator(s): SEK	Section, Township, Range: <u>WATERUSUE</u>
Landform (hillslope, terrace, etc.):Closed placin Loc	al relief (concave, convex, none): <u>NONE</u> Slope (%): <u>0</u>
Subregion (LRR or MLRA): Lat: <u>44 * - 3 &</u>	23.549 W Long: 69° 42 9,350 W Datum: W65 84
Soil Map Unit Name: ScA - Scantic Silt loa.	<u>NUI classification: NONE</u>
Are climatic / hydrologic conditions on the site typical for this time of year	ır? Yes 📈 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly of	listurbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally prol	plematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes Mo Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? Yes <u>X</u> No If yes, optional Wetland Site ID:
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Field Observations: Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre Remarks:	S [™] S [™] S [™] Motion

ŝ

Sampling Point: <u>OISKX</u>-WET

Tree Stratum (Plot size:3 ^e)	Absolute		Indicator	Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Frazinus pennsylvanica		Y	FACW	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	<u>40</u>	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:1 3)				FACW species x 2 =
1. ALANS INTERG	20	<u> </u>	FALW	FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5			. <u></u>	
6		<u></u>	·	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Co		∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size:5)				3 - Prevalence Index is ≤3.0 ¹
	15		FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. I Montiens carensis				Problematic Hydrophytic Vegetation ¹ (Explain)
			FAC	
3. Solanum dulcamara	kan dh			¹ Indicators of hydric soil and wetland hydrology must
4. <u>Renunculus repens</u>		<u> </u>	FAC	be present, unless disturbed or problematic.
5			<u> </u>	Definitions of Vegetation Strata:
6	<u> </u>			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7	<u> </u>			at breast height (DBH), regardless of height.
8		<u>CUIZEAUNAMANAN MININA MI</u>	. <u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9		6441-61445V		and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11.			••••••	of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	(10	= Total Co	ver	height.
Woody Vine Stratum (Plot size:)				
1				
2				
3				Hydrophytic Vegetation
4				Present? Yes <u>> No</u>
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.1	1.	\sim	
Veg plots rectangulat to	414	M/ in	+1000 pl	the ing

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			<u>x Feature</u>	<u>s</u> 1			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-4"							Silt loam	
4-12"	10 YR 5/1	60	10 YR 5/6	40	C	M	silt loam	
					·			
					. <u></u>			
	·····							
					·			
¹ Type: C=Ce	oncentration, D=Depl	etion. RM=	Reduced Matrix. MS	 S=Masked	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil							Indicators for Problematic Hydric Soils ³ :	
Histosol	. ,		Polyvalue Belov		(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Black Hi	bipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		LRR R, M	LRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		Loamy Mucky N	lineral (F	1) (LRR 🖌		Dark Surface (S7) (LRR K, L)	
	t Layers (A5) d Below Dark Surface	. (A11)	Loamy Gleyed N Depleted Matrix		?)		Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)	; (ATT) .	Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, R)	
Sandy M	lucky Mineral (S1)		Depleted Dark S		7)		Piedmont Floodplain Soils (F19) (MLRA 149B)	
	Bleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)	
	Matrix (S6)						Very Shallow Dark Surface (TF12)	
	rface (S7) (LRR R, M	LRA 149B)				Other (Explain in Remarks)	
³ Indicators of	f hydrophytic vegetati	on and we	tland hydrology mus	t be prese	ent, unles	s disturbed	or problematic.	
Restrictive I	ayer (if observed):							
Туре:	NONE							
Depth (inc	ches):						Hydric Soil Present? Yes 📈 No	
Remarks:								

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: <u>TRAFTON</u>	RO	City/C	County: WAT	FAULLE	KENNEBEC S	ampling Date:	06-5-13
Applicant/Owner:							
Investigator(s):		f .					
Landform (hillslope, terrace, etc							(%): 0-2
Subregion (LRR or MLRA):							
Soil Map Unit Name:							<u>ve</u>
Are climatic / hydrologic conditi	ons on the site typical fo	or this time of year? Y	′es <u> </u>	No (I1	no, explain in Rem	arks.)	
Are Vegetation, Soil	, or Hydrology	significantly distur	bed?	Are "Normal (Circumstances" pres	sent?Yes 🔀	No
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? ((If needed, ex	plain any answers i	n Remarks.)	
SUMMARY OF FINDING	S – Attach site m	nap showing san	npling poi	nt locatior	is, transects, ii	nportant fea	tures, etc.
Hydrophytic Vegetation Prese		No _>⁄/	Is the Sam	-	Yes	No 5	
Hydric Soil Present?		No <u>>></u>	within a W				
Wetland Hydrology Present? Remarks: (Explain alternative		No <u></u>	If yes, optio	nal Wetland S	Site ID:		
HYDROLOGY							
Wetland Hydrology Indicato				5	econdary Indicator		o required)
Primary Indicators (minimum	of one is required; chec	k all that apply)			Surface Soil Cra		
Surface Water (A1)		Water-Stained Leave		-	_ Drainage Patter		
High Water Table (A2)		Aquatic Fauna (B13)			Moss Trim Line		
Saturation (A3)		Marl Deposits (B15)	or (C1)	-	Dry-Season Wa		
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfide Od Oxidized Rhizospher		- Poote (C3)	Crayfish Burrow Saturation Visib	le on Aerial Imag	env (C9)
Drift Deposits (B3)		Presence of Reduced	-	(0013 (00) _		sed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reductio	. ,	ils (C6)	Geomorphic Po	. ,	
Iron Deposits (B5)		Thin Muck Surface (C		-	Shallow Aquitar		
Inundation Visible on Aeri	al Imagery (B7)	Other (Explain in Rer	narks)	_	_ Microtopograph	ic Relief (D4)	
Sparsely Vegetated Conc	ave Surface (B8)			-	FAC-Neutral Te	st (D5)	
Field Observations:							
Surface Water Present?	Yes No <u>×</u>						
Water Table Present?	Yes No						
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):		Wetland Hy	drology Present?	Yes	No <u>X</u>
Describe Recorded Data (stre	am gauge, monitoring v	vell, aerial photos, pre	vious inspect	ions), if availa	able:		
Remarks:							

Sampling Point: _____OSKW- UP

•	Absolute	Dominan	t Indicator	1
<u>Tree Stratum</u> (Plot size: \sqrt{A})		Species?		Dominance Test worksheet:
				Number of Dominant Species
1				That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
				That Are OBL, FACW, or FAC:
5				
6		<u></u>		Prevalence Index worksheet:
7		,		Total % Cover of:Multiply by:
		= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: N/A)				FACW species x 2 =
				FAC species x 3 =
1			·	
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Co		2 - Dominance Test is >50%
Herb Stratum (Plot size: 5)		- 10tal C0	vei	3 - Prevalence Index is $\leq 3.0^1$
				4 - Morphological Adaptations ¹ (Provide supporting
1. <u>Hieracium caespitasum</u>	10		UPL_	data in Remarks or on a separate sheet)
2. Phieum pratense	20		FACV	Problematic Hydrophytic Vegetation ¹ (Explain)
3. RANNAULUS ACCIS			FAC	
			,	¹ Indicators of hydric soil and wetland hydrology must
4. <u>Poa pratensis</u>	25	X	FACU	be present, unless disturbed or problematic.
5. Stellacia Media	28	<u> </u>	FACU	Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				at bleast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9	· <u>·····</u>			and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
41				of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
12	13 0			height.
	120	= Total Co	ver	
Woody Vine Stratum (Plot size:)				
1				
2			#+++++++++++++++++++++++++++++++++++++	
3			·	Hydrophytic
4				Vegetation Present? Yes No 📈
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

	cription: (Describe	to the de				or confirn	m the absence of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Color (moist)	ox Feature %	es Type ¹	_Loc ²	Texture Remarks
0-67	2.5 Y 4/3	100					Fire sandy loam.
6-10"	2.5 4 4/4	100	• • • • • • • • • • • • • • • • • • • •				Fires andy loan
	2.5 46/3	100					Fire sendy loam.
	6	·	TEYP EL	.1	<u>с</u>	 M	1.
16-19"		60	7.5 YR 5/6	- 70			· · · · · · · · · · · · · · · · · · ·

	<u></u>						
			4				
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	1001	VE					Indicators for Problematic Hydric Soils ³ :
Histosol	(A1) Dipedon (A2)		Polyvalue Belo MLRA 149B		e (S8) (LRF	RR,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	, ace (S9) (3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) 1 Layers (A5)		Loamy Mucky			, L)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surface	e (A11)	Depleted Matri		L)		Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R
	lucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark Redox Depress				Piedmont Floodplain Soils (F19) (MLRA 1491 Mesic Spodic (TA6) (MLRA 144A, 145, 1498
Sandy R	ledox (S5)						Red Parent Material (F21)
	Matrix (S6) rface (S7) (LRR R, N	1LRA 149	B)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	f hydrophytic vegetat Layer (if observed):		etland hydrology mu	st be pres	ent, unless	s disturbed	d or problematic.
Type:							
Depth (inc							Hydric Soil Present? Yes No 🔀
Remarks:	, <u></u>						
- 5M	all knoll o	f gl.	acial till lo	reated	l vo/;	'n sc	cantic silt loan field.
					<i>¥</i>		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: TRAFTON RD City/County: WATERVILLE, KENNE BEC Sampling Date: 06-5-12
Applicant/Owner: TRAFTON REALTY LLC State: ME Sampling Point: DISK W-WK
Applicativowner. <u>I kur tom teget to tege</u> State. <u>The</u> Sampling Point. <u>Crott to</u> age
Investigator(s): SEK Section, Township, Range: WATER VILLE Landform (hillslope, terrace, etc.): Educid Local relief (concave, convex, none): NoN5/cont CAVESlope (%): O-7 Subregion (LRR or MLRA): Lat: 44° 30′ 26.400′′N Long: 69° 42′ 8,580′′ W Datum: W65 84
Landrorm (initisiope, terrace, etc.): <u>Becard</u> Local relief (concave, convex, none): <u>None (concave</u> , Stope (%): $O = V$
Subregion (LRR or MLRA): Lat: <u>44 50 26.400 /4</u> Long: <u>61 72 8,3%0 00</u> Datum: <u>000 80</u>
Soil Map Unit Name: ScA - Scantic Silt Lunan NWI classification: PFM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes 🔀 No within a Wetland? Yes 🔀 No
Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Area is w/in Active hay field
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Drimony Indicators (minimum of and is required) shock all that apply) Surface Seil (create (IPS))
Primary Indicators (minimum of one is required; check all that apply)
Surface Water (A1) Water-Stained Leaves (B9) Image Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
∑ Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes 🔀 No Depth (inches):
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No
(includes capillary fringe) * Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Portions of welland are "weller" near the draining se channel up/in
the field.

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VEGETATION – Use scientific names of plants.

Sampling Point: ______

				· · ·	
<u>Tree Stratum</u> (Plot size: <u>N/A</u>)		Dominant Species?		Dominance Test worksheet:	
				Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (/	A)
2				Total Number of Dominant	
3					B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: (A	A∕B)
6				Prevalence Index worksheet:	
7				Total % Cover of:Multiply by:	
		= Total Co	ver	OBL species $5 \times 1 = 5$	
Sapling/Shrub Stratum (Plot size: N/A)				FACW species 60 x 2 = 120	
1				FAC species $10 \times 3 = 30$	
				FACU species 25 x4 = 100	
2				UPL species 25 x 5 = 125	
3				Column Totals: 125 (A) 380	(B)
4					4
5				Prevalence Index = $B/A = 3.0 (3.6)$	7
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
1				2 - Dominance Test is >50%	
5	•···· •	= Total Co	ver	× 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot size:)	5		Eden	4 - Morphological Adaptations ¹ (Provide support	rting
1. Stellaria media	- <u> </u>		FACU	data in Remarks or on a separate sheet)	
2. Houstonia GREGULEA			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. <u>Gallium aspellum</u>	:5		OBL	¹ Indicators of hydric soil and wetland hydrology mus	. +
4. ROMUNCULUS Geris	10		FAC	be present, unless disturbed or problematic.	SL
5. Phalacis acuadiagram	60	У	FACW	Definitions of Vegetation Strata:	
6. Anthoxan thum adocatum	15		FACU	Demittons of vegetation Strata.	
7. Mieracium caespitosum	- <u> </u>	<u> </u>	VPL	Tree – Woody plants 3 in. (7.6 cm) or more in diam	eter
				at breast height (DBH), regardless of height.	
8			·····	Sapling/shrub - Woody plants less than 3 in. DBH	i l
9		<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb - All herbaceous (non-woody) plants, regardle	ess
11				of size, and woody plants less than 3.28 ft tall.	
12.				Woody vines – All woody vines greater than 3.28 f	't in
	125	= Total Cov		height.	
			/er	,	
Woody Vine Stratum (Plot size:)					
1					
2					
3				Hydrophytic	
4				Vegetation	
	·			Present? Yes No	
Domarka: (Include photo pumbers have as an a survey)		= Total Cov		<u> </u>	
Remarks: (Include photo numbers here or on a separate s	sneet.)				
Anna is willon in an active la	me Cal	1 116		int life a result	
Area is within an active h	my real	× / //	L SPE	dis they a reall	
of agriculture/Hay.				Ł	
· •					

		to the de				or confirn	n the absence of indicato	ors.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redo Color (moist)	x Features	; _Type ¹ _	Loc ²	Texture	Remarks
$\Delta - 6^{\prime\prime}$	2.5 Y 5/3	.60	10 YR 5/6	40	C	M	silt loan	<u></u>
6-12"	2,5 4 5/2	60	hit	40	<u> </u>	M	Silt Loam	
12"			10 YR. 616				silt/clay	Refusel
		<u></u>						
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					<u></u>			
	, <u>, , , , , , , , , , , , , , , , , , </u>							
								· · · · · · · · · · · · · · · · · · ·
							·	
	Concentration, D=Depl	etion RM	=Reduced Matrix MS	S=Masked	Sand Gr		² Location: PL=Pore	Lining M=Matrix
	Indicators:		-iteduced Matrix, Mc	5-IVIdSKeu	Sanu Gr	21115.	Indicators for Proble	
Histoso			Polyvalue Below		(S8) (LRF	₹ R,		(LRR K, L, MLRA 149B)
	pipedon (A2) listic (A3)		MLRA 149B) Thin Dark Surfa		RR R, MI	_RA 149B		ox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Mucky M	1ineral (F1) (LRR K		Dark Surface (S7)) (LRR K, L)
	d Layers (A5) d Below Dark Surface	e (A11)	Loamy Gleyed Matrix)		Polyvalue Below S	Surface (S8) (LRR K, L) e (S9) (LRR K, L)
Thick D	ark Surface (A12)	()	Redox Dark Sur	face (F6)			iron-Manganese	Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark S Redox Depress		7)			ain Soils (F19) (MLRA 149B) 6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)		(())))))))))))))))				Red Parent Mater	ial (F21)
	d Matrix (S6) urface (S7) (LRR R, M	I DA 140	B)				Very Shallow Darl Other (Explain in I	
			D)					inemarkay
	of hydrophytic vegetati	ion and w	etland hydrology mus	t be prese	nt, unless	disturbed	l or problematic.	
Type:	Layer (if observed):	silt -	aquilard					
Depth (in	10	C.	<u></u>				Hydric Soil Present?	Yes <u>×</u> No
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: TRAFTON RD	City/County: VATERVIUE, KENNEGEC Sampling Date: 06-5-13
Applicant/Owner: TRAFTON REALTY	State: ME Sampling Point: OP SKM - UF
Investigator(s):	Section, Township, Range: WATERUILLE
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, convex, none): <u>COAULO</u> Slope (%): <u>820</u>
Subregion (LRR or MLRA): Lat: 44 30	<u>36.360° N</u> Long: <u>69° 42′ 8,340″ W</u> Datum: <u>W65 84</u>
Soil Map Unit Name: ScA - Scantic silt loan	NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes 📈 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ng sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No <u>>></u>	Is the Sampled Area	No <u></u>
Hydric Soil Present?	Yes No <u>>></u>	within a Wetland? Yes	
Wetland Hydrology Present?	Yes No <u>>></u>	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative proceed	dures here or in a separate report.)	<u></u>	

HYDROLOGY

Wetland Hydrology Indicators: NONE	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Mart Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	pils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No 🔀 Depth (inches):	
Saturation Present? Yes No 🖄 Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No 🖄 Depth (inches):	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No 🖄 Depth (inches):	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No <u>>></u> Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

VEGETATION – Use scientific names of plants.

Sampling Point: 015 KM-64P

Tree Stratum (Plot size:)	Absolute		Indicator	Dominance Test worksheet:
1		Species?		Number of Dominant Species
1. Tsuga canadensis		<u> </u>	FALU	That Are OBL, FACW, or FAC: (A)
2. Tilin AMERicann.	25			Total Number of Dominant
3. Fravious ponneyluanica		<u> </u>	FACW.	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 29% (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	10	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. <u>Tilia americana</u>	/5	X	FACU	FAC species x 3 =
2. Prunus sarotina		<u> </u>	FACU	FACU species x 4 =
3				UPL species x 5 = (D)
4				Column Totals: (A) (B)
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
	2.5	= Total Co	ver	$ 3 - \text{Prevalence Index is } \le 3.0^1 $
Herb Stratum (Plot size: 5)				4 - Morphological Adaptations ¹ (Provide supporting
1. Toxicontendron radicans	10	Y	FAC	data in Remarks or on a separate sheet)
2. <u>Hieracium caespitosum</u>	. 64	Y	FIPL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Mightlenum raremosum		Ý	FACU	
		<u></u>		¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			<u></u>	at breast height (DBH), regardless of height.
8				Sapling/shrub Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
		<u></u>		Woody vines - All woody vines greater than 3.28 ft in
12	2 0			height.
	63 	= Total Co	ver	
Woody Vine Stratum (Plot size:)				
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes No
		= Total Co	ver	Present? Yes No
Remarks: (Include photo numbers here or on a separate				
	onoon			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features (inches) Color (moist) % Type ¹ Loc ² Texture Remarks	
1-0"	
0-10" 10 YR 4/3 Sindy loan	
10-24" LO YR 4/4 Sandy loam	
	<u></u>
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: At # ALE	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA	(149B)
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR	
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRF Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L)	((, μ, ())
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRF	R K, L)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LR	R K, L, R)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (M	LRA 149B)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 7 Sandy Redox (S5) Red Parent Material (F21)	145, 149B)
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed): Type: NowE	
	No 🖂
Depth (inches): Hydric Soil Present? res Remarks: Image: Soil Present? res	

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: TRAFTON, RD	>	City/County: WATER	WELLE, KENNEBEC ;	Sampling Date: 06-5-13
•				Sampling Point: <u>O2 SKM - WER</u>
Investigator(s):	•			
Landform (hillslope, terrace, etc.):				
Subregion (LRR or MLRA):				
Soil Map Unit Name: ScA - S				
Are climatic / hydrologic conditions or				
Are Vegetation, Soil, o				
Are Vegetation, Soil, o	or Hydrology naturally	problematic? (If r	eeded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showi	ng sampling point	locations, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes 🔀 🛛 No	Is the Sample		
Hydric Soil Present?	Yes 🥍 No		and? Yes 🔀	No
Wetland Hydrology Present?			Wetland Site ID:	
HYDROLOGY				
Wetland Hydrology Indicators:				ors (minimum of two required)
Primary Indicators (minimum of one			Surface Soil C	, ,
$\frac{1}{2}$ Surface Water (A1)		ed Leaves (B9)	✓ Drainage Patter Massa Trime Line	
★ High Water Table (A2) ★ Saturation (A3)	Aquatic Faur Marl Deposit		Moss Trim Line Dry-Season W	
Water Marks (B1)		ulfide Odor (C1)	Crayfish Burro	
Sediment Deposits (B2)			ots (C3) Saturation Visi	
Drift Deposits (B3)	Presence of	Reduced Iron (C4)	Stunted or Stre	essed Plants (D1)
Algal Mat or Crust (B4)		Reduction in Tilled Soils		
Iron Deposits (B5)	Thin Muck S		Shallow Aquita	
Inundation Visible on Aerial Ima		iin in Remarks)	Microtopograp FAC-Neutral T	
Sparsely Vegetated Concave St Field Observations:				
	_≫ No Depth (inch	es):		
	No Depth (inch			
Saturation Present? Yes	.≫ No Depth (inch		etland Hydrology Present?	? Yes <u>~</u> No
(includes capillary fringe) Describe Recorded Data (stream ga	uge, monitoring well, aerial ph	otos, previous inspection	s), if available:	
	-3-,	, t		
Remarks:				
Komano.				

VEGETATION – Use scientific names of plants.

Sampling Point: OISKM-WET

.

~ ~	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	•	Species?	Status	Number of Dominant Species
1. Salix Nigra	30	<u> </u>	OBL	That Are OBL, FACW, or FAC:
2. Ulmus americana	20	Y	FACW	Tatal Number of Demission
3			•	Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species 8370 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	50	= Total Cov	rer	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Salix nigra	30	Y	OBL	FAC species x 3 =
2. Lonice ca Mucrowii	35		FACU	FACU species x 4 =
2. <u>Contractor Marjonan</u>	10			UPL species x 5 =
3. <u>Spiraen</u> alba			FACW	Column Totals: (A) (B)
4	• ••••••			
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
·	75	= Total Cov		∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5)		- 10(4) 000		3 - Prevalence Index is ≤3.0 ¹
<u>Herb Stratum</u> (Plot size:) 1. <u>Ono dec sonsi bilis</u>	60	Y	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
**	r~		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Osmunda claytonia			•·····	
3. Equivelum gruense			FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Impatiens raponsis		<u> </u>	FACW	be present, unless disturbed or problematic.
5. <u>Ranuncolus gerio</u>	10		FAC	Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12	- <u> </u>			Woody vines – All woody vines greater than 3.28 ft in height.
	117	= Total Cov	rer	neight.
Woody Vine Stratum (Plot size:)				
1				
2				
3	·			Hydrophytic Vegetation
4				Present? Yes No
		= Total Cov	er	٠ ـ
Remarks: (Include photo numbers here or on a separate s	sheet.)			

1	cription: (Describe	to the dep				or confirm	n the absence of indic	cators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Color (moist)	<u>x Feature</u> %	s Type ¹	Loc ²	Texture	Remarks
0-10	10 YR 2/1	70	10 YR 5/6	30	<u></u> C	 M	Silt logm	Tremarks
		- <u> </u>			·		silt loam	·····
10-14"	2.57 5/2	70	10 YR 5/6	30		<u></u>	JAIR IDAM	· · · · · · · · · · · · · · · · · · ·
								·······
	••••••••••••••••••••••••••••••••••••••	·		·			Land the second s	*****
		• •••••••		• •	• ••••••		····	
			·····	• ••••	·			
				<u> </u>				

		· <u> </u>	<u> </u>		·	. <u></u>		
¹ Type: C=C	oncentration, D=Dep	letion PM-					² l ocation: PI =Po	ore Lining, M≃Matrix.
Hydric Soil			-iteduced matrix, me	J-IMASKet		ams.		blematic Hydric Soils ³ :
Histosol			Polyvalue Belov	w Surface	(S8) (LRI	R,		0) (LRR K, L, MLRA 149B)
	bipedon (A2)		MLRA 149B)					Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) in Sulfide (A4)		Thin Dark Surfa Loamy Mucky N				5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R) S7) (L RR K , L)
	d Layers (A5)		Loamy Gleyed I			, -/		w Surface (S8) (LRR K, L)
	Below Dark Surface	e (A11)	➤ Depleted Matrix					ace (S9) (LRR K, L)
	ark Surface (A12) lucky Mineral (S1)		Kedox Dark Sul Depleted Dark S					se Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		Redox Depress		•)			(TA6) (MLRA 144A, 145, 149B)
Sandy R	ledox (S5)						Red Parent Ma	
	Matrix (S6) rface (S7) (LRR R, N	NI DA 1400	•				Very Shallow E Other (Explain	Dark Surface (TF12)
		143L	•)					in remarks)
	f hydrophytic vegetat		tland hydrology mus	t be prese	ent, unless	s disturbed	or problematic.	
	_ayer (if observed): NoM							
Туре:							Hydric Soil Present	t? Yes 🖄 No
Depth (ind	ches):						Hydric Soil Present	
Remarks:								
comb	ination of	F3	and FG.					

APPENDIX B USACE FUNCTIONS AND VALUES DATA FORMS



(ma) + sie	M	Wetland Function-Value Evaluation Form	025 KC, 625KD, 225KE 025KB, 025KT 015KW
Total area of wetland $\overline{7.6}$ Human made? \overline{N}		Is wetland part of a wildlife corridor? $$ or a "habitat island"? $$	625K
Adjacent land use Agric when		Distance to nearest roadway or other development <25	by: SEK
Dominant wetland systems present PEM	Z	Contiguous undeveloped buffer zone present	Wetland Impact: TypeArea272
Is the wetland a separate hydraulic system? \longrightarrow		If not, where does the wetland lie in the drainage basin? Uper (Evaluation based on:
How many tributaries contribute to the wetland?	Ø	Wildlife & vegetation diversity/abundance (see attached list)	Office Field
Function/Value	Occurence Y N	Rationale Principal (Reference #)* Function(s)/Value(s)	completed? Y <u>N</u> N
₹ Groundwater Recharge/Discharge			
Floodflow Alteration			
Fish and Shellfish Habitat			
V Sediment/Toxicant Retention	×		
With Nutrient Removal	×	(1,3,4,5,6,7,8,9, X	
Production Export	\times		
Sediment/Shoreline Stabilization		X	
🝆 Wildlife Habitat	X	16, 7 Red viez Zimele birds /	green kross.
$\mathcal R$ Recreation	×		
Educational Scientific Value	X		
💥 Uniqueness/Heritage			
KWA Visual Quality/Aesthetics	X		
ES Endangered Species Habitat	×		
Other	×		
Notes:		* Refer to b	* Refer to back up list of numbered considerations

M_{1} is wetland part of a wildlife corridor? N_{1} or a "nabitat island"? M_{1} M_{1} If not, where to nearest roadway or other development $2 \le N_{1}$ M_{1} M_{1} If not, where does the wetland lie in the drainage basin? M_{1} M_{1} M_{1} If not, where does the wetland lie in the drainage basin? M_{1} M_{2} N_{1} If not, where does the wetland lie in the drainage basin? M_{1} M_{2} N_{1} If not, where does the wetland lie in the drainage basin? M_{1} M_{2} N_{2} N_{1} M_{2} M_{2} N_{2} N_{2} N_{2} M_{2} M_{2} N_{2} N_{2} N_{2} N_{2} M_{2} M_{2} N_{2}			Ū,	and Function-	Value	Wetland Function-Value Evaluation Form	Wetland I.D. & SKM
Free Distance to nearest randway or other development 2×1 Prepared by: 3×1 7×1 $P(S)$ Contiguous undeveloped buffer zone present $Y \times 1$ $Y = 1/3 \times 1$ $entitie Mindlife & vegenation diversity/abundance (see attached list) Weihaal input: Area vertinandi Windlife & vegenation diversity/abundance (see attached list) Occurrence Raition based on: vertinandi Windlife & vegenation diversity/abundance (see attached list) Commonial Y \times N vertinandi Y = 1/3 Y = 1/3 Y = 1/3 vertinandi Y = 1/3 Y = 1/3 Y = 1/3 vertinandi Y = 1/3 Y$	wetland OI 17 Human made? 7	Is	vetlan	d part of a wildlife corrido	5 ×	or a "habitat island"? 🔪	
PEC Contiguous undeveloped buffer zone present Yes Weihad Impact: term M If not, where does the weihand lie in the drainage busin? M M weitand? Wildlife & vegeration diversity/abundance (see anached list) Office Freid. weitand? Wildlife & vegeration diversity/abundance (see anached list) Office Freid. weitand? N Reference #)* Functional v N Reference #)* Reference #)* ischarge N V Reference #)*	Hichward /	- Z		Distance to nearest 1	oadway or	other development <u><u>2</u><u></u></u>	55K Date 7/30/
tem? \bigwedge If not, where does the wetland lie in the drainage basin? $\underbrace{M:del[\epsilon]}_{1}$ wildlife & vegetation diversity/abundance (see attached list) \overbrace{Y} Wildlife & vegetation diversity/abundance (see attached list) $Occurrence Rationale Principal Occurrence Rationale Principal Occurrence Rationale Principal Construction (s)/Value(s) Construction (s)/Value(s) \nabla (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)$	etland systems present <u>PF0</u>			Contiguous undeve	loped buffe		nd Impact: Ø Area
wetland? Wildlife & vegetation diversity/abundance (see attached its) ∇ Nuclear Rationale Principal Y N (Reference #)* Function(s)/Value(s) X N 7 7 X N 7 7 X N $1, H, g, to_i$ 7 X $1, H, g, to_i$ 7 X $1, H, g, to_i$ 7 X $1, 2, 3, 5, 6, 7, 8, 9, 16$ 7 tion X $1, 2, 3, 5, 6, 7, 8, 9, 16$ 7 tization X $1, 2, 3, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 9, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lization X $1, 2, 3, 4, 5, 6, 7, 8, 9, 16$ 7 lizati X <td>d a separate hydraulic system? 🦷</td> <td>-</td> <td>If not</td> <td>, where does the wetland li</td> <td>e in the drai</td> <td></td> <td>ation based on:</td>	d a separate hydraulic system? 🦷	-	If not	, where does the wetland li	e in the drai		ation based on:
Occurrence Rationale Y N Reference #)* Principal ischarge × 7 7 × 5,6,8,13,18 1,4,8,10, 1 × 1,4,8,10, 1 1 × 1,4,8,10, 1 1 × 1,3,4,5,6,7,8,9,10 1 1 × 1,3,4,5,6,7,8,9,10 1 1 ization × 1,3,4,5,6,7,8,9,10 1 ization × 1,3,4,5,6,7,8,9,10 1 ist × 1,3,4,5,6,7,8,9,10 1 itzation × 1,3,4,5,6,7,8,9,10 1	ributaries contribute to the wetland?	FORTY estat	м	/ildlife & vegetation divers	ity/abundar	nce (see attached list)	Office Field X Corps manual wetland delineation
ischarge×7× $5 / 6 / 8 / 13 / 18$ ×× $1 / 4 / 8 / 10 / 10 / 10 / 10 / 10 / 10 / 10 $		Occur	ence N		Princip Functic	al on(s)/Value(s)	completed? Y × N
× $5 / 6 / 8 / 1 / 8 / 10 / 12$ ×××1 / $4 / 8 / 10 / 12$ ×7×7×7×7×1 / $2 / 3 / 5 / 6 / 7 / 12$ ×1 / $2 / 3 / 5 / 6 / 7 / 8 / 9 / 10$ ×1 / $3 / 4 / 5 / 6 / 7 / 8 / 9 / 10$ Nue××1 / $3 / 4 / 5 / 6 / 7 / 8 / 9 / 10$ ×××××1 / $3 / 4 / 5 / 6 / 7 / 8 / 9 / 10$ ××× <td>indwater Recharge/Discharge</td> <td>X</td> <td></td> <td>574</td> <td></td> <td></td> <td></td>	indwater Recharge/Discharge	X		574			
ion× $ _{1}H_{1}\otimes_{1}(D_{1})$ ion× $ _{1}H_{1}\otimes_{1}(D_{1})$ × 7 × 7 × 7 × $ _{1}2,3}5/6/7/1/2$ × $ _{1}2,3}5/6/7/8/9/10$ × $ _{1}2,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ ine×× $ _{1}3,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ × $ _{1}3,4,5,6,7,8,9/10$ ine×× $ _{1}3,4,5,6,7,8,9/10$ × $ _{1$	dflow Alteration	X		6,8, 13			
ion \times $1, 4, 8, 10, 10$ \times 7 7 \times 7 \times X \times X \times $1, 2, 3, 5, 6, 7, 8, 9, 10$ \times $1, 2, 3, 5, 6, 7, 8, 9, 10$ \times $1, 3, 4, 5, 6, 7, 8, 9, 10$ \times X $1, 3, 4, 5, 6, 7, 8, 9, 10$ \times X \times X	and Shellfish Habitat		X				
$ \begin{vmatrix} \chi & & & \\ \chi &$	ment/Toxicant Retention	X	#########	00			
XX $ zation X $ $ z_1, 3, 5_1 6_1 7_1 2$ $Y z_1, 3, 5_1 6_1 7_1 2$ X $ z_1, 3, 9_1, 5, 6_1 7_1 2$ $Y z_1, 4_1 5_1 6_1 7_1 2$ X $ z_1, 3, 4_1, 5_1 6_1 7_1 2$ $Y z_1 + z_2 + z_1 + z_2 + z_$	ient Removal	~					
izationX $1_1 Z_1 Z_3 S_1 C_1 T_2$ YX $1_1 Z_1 Z_3 S_1 C_1 T_2$ Y $Nactial Enggmented Enggme$	uction Export		×				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		\times	Harter	2,3567 2			
Ite × × Ite × × Ite × × Ite × ×	llife Habitat	×		3,4,5,6,7,8	-		
tat lue	eation		×		n:		
at at	ational Scientific Value						
at	ueness/Heritage		×				
	al Quality/Aesthetics						
	ngered Species Habitat		X				

	M	etland F	Junction-	Wetland Function-Value Evaluation Form	Form	DISKT	
Total area of wetland $\overline{\mathcal{O}, \mathcal{I}}$ Human made? $\overline{\mathcal{N}}$		/etland part of	Is wetland part of a wildlife corridor?_	or? χ or a "habitat island"? N	Z	LD. 6252 M, 07	iana.
Adjacent land use Korksheek / Wishwark	~	Agri, Di	istance to nearest	Distance to nearest roadway or other development $25 - 50$	5-30'	Prepared by: Sek Date 7/30/13	
Dominant wetland systems present	- 0		ontiguous undev	Contiguous undeveloped buffer zone present	Dortially	Wetland Impact:	
Is the wetland a separate hydraulic system?		If not, where d	loes the wetland		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ation based on:	1
How many tributaries contribute to the wetland?	angatan	Wildlife &	r vegetation dive	Wildlife & vegetation diversity/abundance (see attached list)		Office Field Corns manual wetland delineation	
Function/Value	Occurence Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	- 3	completed? YN	
F Groundwater Recharge/Discharge		×					[
Floodflow Alteration	<u> </u>	 X					
Fish and Shellfish Habitat		×					
Sediment/Toxicant Retention	×	1, H, S					
Nutrient Removal	X	4,7,8					1
Production Export		×					
Sediment/Shoreline Stabilization		×					
Wildlife Habitat	×	67.8			24.5		~
A Recreation			98 . 47 May,				
Educational Scientific Value		×					
🔌 Uniqueness/Heritage		~					
くばち Visual Quality/Aesthetics	X	*					
ES Endangered Species Habitat		X					
Other		*					
Notes:				*			

Refer to back up list of numbered considerations.

	\geq	D D	and Function-	/alue	Wetland Function-Value Evaluation Form	
Total area of wetland 0.54 Human made? \sim	Is	vetlan	Is wetland part of a wildlife corridor?_	N i	or a "habitat island"? \mathcal{N}	Wetland I.D. 615kT / 015KG
Adjacent land use Highway			Distance to nearest r	oadway o	Distance to nearest roadway or other development $<\!\!/ \! \circ \!\!/ \!\circ \!\!/$	K Date 7/3
Dominant wetland systems present PEM			Contiguous undeveloped buffer zone present.	oped bufi	fer zone present	Wetland Impact:
Is the wetland a separate hydrautic system? \overline{N}		If not	If not, where does the wetland lie in the drainage $basin^2$.	e in the dr	ainage basin? Upper	
How many tributaries contribute to the wetland?		14	Wildlife $\&$ vegetation diversity/abundance (see attached list)	ity/abund	ance (see attached list)	Office Field X Corps manual wetland delineation
Function/Value	ccur	Occurence Y N	Rationale (Reference #)*	Principal Function	Principal Function(s)/Value(s)	completed? Y X N
Groundwater Recharge/Discharge		X				
Floodflow Alteration		·	215,6,7,13			
Fish and Shellfish Habitat		×				
\checkmark Sediment/Toxicant Retention \times			1,2,3,11,			
A Nutrient Removal		×				
Production Export		×				
www.Sediment/Shoreline Stabilization		Bictor	1,2,5,7,9,12	×	associated W/ in 1	in termiters and the point co.
Wildlife Habitat		X			ne.	
Recreation		×				
Educational Scientific Value		X				
🔌 Uniqueness/Heritage		X				
と広い Visual Quality/Aesthetics						
ES Endangered Species Habitat	~	X				
Other	~ >	X				
Notes: Star OISKB					* Refer to	*Refer to back up list of numbered considerations.

Wetland Function-Value Evaluation Fo

	•	1			IIID T IMMUMMA AMINA		
Total area of wetland 0.24 Human made? \overline{N}	Is	vetland	Is wetland part of a wildlife corridor?_	Z	or a "habitat island"?_	nd"?_N	Wetland I.D. OSKO, OSKE
Adjacent land use Agriculture / Hichway			Distance to nearest roadway or other development	idway or oth	er development	<25'	
Dominant wetland systems present Pf0			Contiguous undeveloped buffer zone present.	ped buffer zo	one present	Z	Wetland Impact: Type $\mathcal{L}_i $ Area 0, δS
Is the wetland a separate hydraulic system? \mathbb{N}		If not,	If not, where does the wetland lie in the drainage basin?	in the draina	ge basin?	thing upper	Evaluation based on
How many tributaries contribute to the wetland?	A	M	Wildlife & vegetation diversity/abundance (see attached list)	//abundance	(see attached li	st)	Office Field Correction delineation
Function/Value Oc)ccur	Occurence Y N	Rationale (Reference #)*	Principal Function(Principal Function(s)/Value(s)	- 3	Comments
F Groundwater Recharge/Discharge		X					
Floodflow Alteration		X					
Fish and Shellfish Habitat		X					
K Sediment/Toxicant Retention	×		- Angeni				
Martient Removal			5,6,7	¥			
Production Export							
Sediment/Shoreline Stabilization							
💓 Wildlife Habitat	X	~~~	00				
Recreation		X		-			
Educational Scientific Value		X					
🔌 Uniqueness/Heritage		X					
Visual Quality/Aesthetics		×					
ES Endangered Species Habitat		X					
Other		×					
Notes:						* Refer to hack up lint	· · · · · · · · · · · · · · · · · · ·

Wetland Function-Value Evaluation Form

Keter to back up list of numbered considerations.

	We	tland Function-	Value	Wetland Function-Value Evaluation Form	
Total area of wetland $\frac{\partial \mathcal{S}^{\mathcal{A}}}{\partial \mathcal{S}^{\mathcal{A}}}$ Human made? NO		. Is wetland part of a wildlife corridor? $\overline{\mathcal{NO}}$	11.3 NO	or a "habitat island"? $\mathcal{N}^{\mathcal{D}}$	Wetland I.D. OZSKS OZSKD
Adjacent land use Aglacultur		Distance to nearest	roadway	Distance to nearest roadway or other development adjector	by: SEK
Dominant wetland systems present $\frac{PEM/P}{PEM/P}$	260	Contiguous undeveloped buffer zone present.	eloped bu	ffer zone present	Weiland Impact: Type F: // Area 0, 04
Is the wetland a separate hydraulic system? \longrightarrow	À If	If not, where does the wetland lie in the drainage basin?	lie in the o	trainage basin?	ation based on:
How many tributaries contribute to the wetland?	Cashing .	Wildlife & vegetation diversity/abundance (see attached list)	sity/abun	dance (see attached list)	Office Field
Function/Value	Occurence Y N	ce Rationale (Reference #)*	Principal Function	(s)/Value(s)	Completed? Y N
F Groundwater Recharge/Discharge	×	27 27			CHIMINA
Floodflow Alteration	X	2,4,6,8,9,13			
Fish and Shellfish Habitat			-		
V Sediment/Toxicant Retention	 	4 8 6 8			
Mutrient Removal	×	42.67.84	- <u>)</u>		
Production Export		1			
Sediment/Shoreline Stabilization	<u> </u>	3.4.6.7.8.9.12.	1×33		
Wildlife Habitat	 	6.7.8	120-ur Ma		
Recreation	\times				
Educational Scientific Value	$ $ \times				
🔌 Uniqueness/Heritage	$ $ \times				
KW's Visual Quality/Aesthetics					
ES Endangered Species Habitat	\times				
Other	. ×				
Notes:				* Refer to ba	* Refer to back up list of numbered considerations.

	M	/et]	Wetland Function-	Value	nction-Value Evaluation Form	
Total area of wetland $\frac{7, 9}{N} \frac{M e^{45}}{M}$ Human made? $\frac{N 0}{N}$		wetla	Is wetland part of a wildlife corridor? \overline{NO}	r? <u>N</u> 0	or a "habitat island"?	Wetland I.D. O/SKD, O S KN, O S K &
Adjacent land use Agriculture			Distance to nearest	roadway c	Distance to nearest roadway or other development $loss + h_{ud} + \ell d$	by: SEK
Dominant wetland systems present $\overline{\rho E}$	PEN		Contiguous undeveloped buffer zone present	eloped buf	fer zone present ND	Wetland Impact: Type & 1 Area 23
Is the wetland a separate hydraulic system?		If nc	ot, where does the wetland I	ie in the d	If not, where does the wetland lie in the drainage basin? UPPER PORTER	Evaluation based on:
How many tributaries contribute to the wetland?	Þ		Wildlife & vegetation diversity/abundance (see attached list)	sity/abund	lance (see attached list)	Office Field
Function/Value	Occurence Y N	rence	<pre>ce Rationale (Reference #)*</pre>	Principal Function	(s)/Value(s)	Comments
₹ Groundwater Recharge/Discharge		Х				
Floodflow Alteration	X		1,2,3,5,6,7,8,9,10,13	13 7	Ntains water for	interistent strained.
Fish and Shellfish Habitat		×				
Sediment/Toxicant Retention	X		1,2,3,4,5,10,4,14	10	adjatant agriculture	
Martient Removal	×		1,3,4,5,6,7,8,9	~	1	aged a
Production Export	X		0		2	
Sediment/Shoreline Stabilization	X		1,2,3,4,6			
Wildlife Habitat	×		6,8,12,13,17		Red wing Winck Windh , gren	gren fross, buildrogs, deer tracks/scat
\mathcal{R} Recreation		X	~			
Educational Scientific Value		X				
🔌 Uniqueness/Heritage		X				
KWY Visual Quality/Aesthetics		X				
ES Endangered Species Habitat		×				
Other		X				
Notes:					* Refer to bach	* Refer to back up list of numbered considerations.