Page 17 Vermont Wetland Section

Wetland Application Database Form

	IT OF THE APPLICATION)								
	Representative Name: Christian C. Heins								
Town where project is located: Dorset	County: Bennington								
Project Location Description: South of Barn at 253 911 Street Address or direction from nearest intersection	Project Location Description: South of Barn at 2534 Dorset West Road, Dorset VT 911 Street Address or direction from nearest intersection								
Project Summary:Construct driveway for single far	nily house on approved lot.								
Permit Type Requested (check all that apply)									
Vermont General Permit Coverage	Determination Vermont Wetland Permit								
Impact Calculations: Total up proposed impacts from wetland tab	ples listed below								
Total Wetland Impact2520square feet (s.f.)									
Total Wetland Clearingsquare feet (s.f.)(qualified linear projects only)	Total Buffer Zone Clearingsquare feet (s.f.)(qualified linear projects only)								
Permit Fees: Make check payable to - State of Veri									
	rative Fee: \$240								
	eck Amount: \$2,855.00								
Clearing Fee: (\$0.25/sf) \$									
Existing Land Use Type: Forestry	Residential (Subdivision)								
(check all that apply)	Residential (Single Institutional 🛛 Undeveloped								
	Family)								
Proposed Land Use Type: Forestry	Residential Industrial/ commercial								
<u>(</u>	Subdivision)								
Agriculture Transportation Parks/Rec/Trail	Residential (Single Institutional No Change Family)								
Proposed Impact Type: Buildings Utilitie									
(check all that apply)									
Driveway Road Parks/Path	Agriculture Pond Lawn								
Dry Hydrant Beaver dam alteration Silviculture	Aesthetics Other No Impact								
Wetland 1: Subject Wetland (Label using Wetland ID from application if applicable, use supplemental sheets if more than one	Location: Dorset West Road								
wetland is being impacted)									
Wetland Type: POW/PSS/PFO WL Size Class :	<1 acre								
•	ed Alterations								
Wetland Alteration: Buffer Zone Alteration:	Wetland Alteration Type (check all that apply)								
Wetland Fill: 2520s.f.	Dredge Drain								
Temporary: s.f. Temporary: s.f	Cut Vegetation								
Permanent: : s.f. Permanent: : 2900 s.f	Trench/Fill Other								
Mi	tigation								
Avoidance and Minimization Wetland:	s.f. Buffer Zone s.f.								
(s.f. of wetland NOT impacted):									
Water d Mitigation (a f Cainad)	Duffer Zone Mitigation (of Coined)								
Wetland Mitigation: (s.f. Gained)Restoration1750s.f.Enhancements.f.	Buffer Zone Mitigation (s.f. Gained): Restoration 960 s.f. Enhancement s.f								
Creation s.f. Conservation s.f.	Creation s.f Conservation s.f								
Reason for Mitigation: Correction of Violation	Mitigation to offset permit Uoluntary impacts								

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Restoration	1750s.f.	Enhancement	s.f.	Restoration	980 s.f.	Enhancement	s.f
			s.f.				
Creation	s.f.	Conservation	s.f	Creation	s.f	Conservation	s.f
Reason for Mil	ligation:	Correction of '	Violation	Mitigation impacts	to offset permit	Uvoluntary	

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	All Applicat	ions Should be Mail	led To:	
	Watershe One National Contract Nation	nt Wetlands Progra d Management Divi onal Life Drive, Ma elier, VT 05620-352	sion in 2	
	St	aff To Complete		
Wetland Project Number:				
Wetland Project Name:		DEC ID#:		
Date Application Received				
Request for Information D	ate:	Information Re	eceived Date:	
Request for Information D	ate:	Information Received Date:		
Date Application Complete	*	Distribution Complete Date:		
Notice Begin Date:		Notice End Dat	ie:	
Final Action Date:		Public Meeting	Date:	
Check#	Check Amo		Date Check Received	
Check#	Check Amount		Date Check Received	

Vermont Wetland Permit Application/Determination Petition

QUESTION	INSTRUCTIONS AND APPLICANT ANSWER	STAFF NOTE
1. Applicant	If the applicant is someone other than the landowner, the landowner information must also be included below.	
1.1. Applicant Name	Laura R. Beckwith	
1.2. Applicant Address	P O Box 262 Dorset, Vermont 05251	
1.3. Applicant Phone Number	802-777-3537	
1.4. Applicant Email	laurabeckwith@josiahallen.com	-
1.5. Applicant Signature (original signature required)	By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge.	
	x Fourd Because 12/1/15	
2. Representative	Consultant, engineer, or other representative that is responsible for filling out this application, if other than the applicant or landowner	
2.1. Representative Name	Christian C. Heins	
2.2. Representative Address		
2.3. Representative Phone Number	802-375-6970	
2.4. Applicant Email	woodserv1@myfairpoint.net	
2.5. Representative	By signing this application you are certifying that all the information	
Signature	contained within is true, accurate, and complete to the best of your	
(original signature required)	knowledge.	
	x Christian C. Deine 12/1/2015	
3. Landowner	Landowner must sign the application. Use this space if landowner is different from the applicant	
3.1. Landowner Name	same	
3.2. Landowner Address		
3.3. Landowner Phone Number		
3.4. Landowner Email		
3.5. Landowner Easement	Attach copies of any easements, agreements or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit. List the attachment for this information in this section. See deed Bk 113, pg. 131, shedule A for right of way description. Laura Beckwith will be responsible for meeting the terms and conditions of the permit.	
3.6. Landowner Signature (original signature required)	By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. x Date: x 102/1/15	
4. Location of Wetland and Project	Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing geographic features.	

	P Application 02/13/2014	right of way through the lar West Road.	st of Dorset West Road with access by 20' wide ds of Peter and Lorraine Kelly at 2534 Dorset			
5.	Site Visit Date and Attendees	Date of visit with District Wetlands Ecologist	List people present for site visits including Ecologist, landowner, and representatives.			
		May 1, 2015	Rebecca Chalmers, ANR and Christian Heins			
6.	Wetland Classification	The wetland is a Class II w	etland because (Choose one):			
		The wetland meets the pre	sumption of significance			
7.	Description of Entire Wetland or Wetland Complex	Answer the following questions regarding the entire wetland or wetland complex. A wetland complex is generally defined as two or more wetland types that are contiguous and interrelated. Specific questions about the wetland in the project area will follow.				
	7.1. Size of Wetland Complex in Acres	wetlands	invironmental Interest Locator Map for mapped Vetland is 0.7 acres in size.			
	7.2. Natural Community Types Present	wetland or wetland complex and their abundance example: 50 acres of softwood forested swamp; emergent wetland Shrub, 2% open water (man made pond) and v (lawn).				
	7.3. Landscape Position	Where is the wetland locate basin, edge of a stream, sh The Wetland is on a valley				
	7.4. Wetland Hydrology	any river, streams, lakes an The sustaining hydrology fo	or this Wetland is a spring seep fed by a mountain age culvert under Dorset West Road discharges st corner of the Wetland.			
	7.4.1. Direction of flow	• · · · · · · · · · · · · · · · · · · ·	from north to south through the wetland complex.			
	7.4.2. Influence of hydrology on wetland complex	For example: The river pro	vides flood water to the wetland in the spring. g seep percolates into coarse grained soils along			
	7.4.3. Relation to the	Distance between the proje	ct area and any nearby surface waters.			
	project area	significant stream is the We the east.	sq. ft. in size lies within the Wetland. The nearest est Branch of the Battenkill more than 1400 feet to			
_	7.4.4. Hydroperiod	My observation of this Wet spring run off and snow me area shrinks in size by app upland plants within the ma				
	7.5. Surrounding Landuse of	 A debid for the state of the st	al and forested; agricultural and undeveloped,			
	the Wetland Complex	and lawns occupy the buffe within the buffer to the wes this application, is to the ea				
	7.6. Relation to Other Nearby Wetlands	enough to contribute to the The Subject Wetland is ver or outlet. As a result there i Dorset Marsh Wetland Con	wetlands or wetland complexes that are close overall function of the wetland in question. y small and largely spring fed with no stream inlet s no hydrologic or vegetative connection to the aplex. Using the Natural Resources Atlas set Marsh is 440 feet from the project Wetland. he separate the two.			

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7.7. Pre-project Cumulative Impacts to the Wetland	Identify any cumulative ongoing impacts outside of the project that may influence the wetland. Examples include but are not limited to wetland encroachments off the subject property, land management in or surrounding the wetland, or development that influences hydrology or water quality. Approximately 25% of the Wetland has been managed in the past by the Kelly's and their predicessors. An excavated pond covers 1000 sq. ft. (3%) and turf grasses cover 22%. The managed area has no apparent impact to the remaining natural wetland area although the stormwater water treatment benefits may be deminished in the managed area. The Town of Dorset maintains Dorset West Road, it's drainage structures and roadside ditches. Sand and salt application in the road right of way adds to sedimentation and chemical effects to vegetation. The periodic cleaning of sediment from culvert outlets and roadside ditches is a temporary disturbance in the Buffer necessary to maintain the fuction of the road drainage structures.	
8. Description of Subject Wetland	Subject Wetland is defined as the area of wetland in the project area, but not limited to the portion of the wetland to be directly impacted by the project. For the purposes of this application, the subject wetland should encompass any portion of the larger wetland or wetland complex that could be directly or indirectly impacted by the project, as defined by hydrology, vegetation and/or physical characteristics.	
8.1. Context of Subject Wetland	Describe where the subject wetland is in the context of the larger wetland or wetland complex described above. The subject wetland is at least 440 feet west of the Dorset Marsh and approximately 15 feet higher in elevation than the Marsh.	
8.2. Wetland Landuse	For example: mowed lawn; old field; naturally vegetated. Describe any previous and ongoing disturbance in the subject wetland. Man made Pond - 3%, Managed lawn - 22%, Natural Scrub/Shrub - 74%	
8.3. Wetland Vegetation	List dominant wetland community type and associated dominant plant species. Dominant community type is Shrub/Scrub. Dominant plant species include; Cornus stolonifera and Onoclea sensibilis.	
8.4. Wetland Soils	Use USDA NRCS information where possible and use the ACOE Delineation Manual soil description Wetland soils are mapped incorrectly as Georgia Loam.	
8.5. Wetland Hydrology	Use descriptions from the ACOE Delineation Manual. The data point showed High Water Table (A2) at 4 inches and Saturation (A3) at 2 inches depth.	
8.6. Buffer Zone	Describe the buffer zone of the subject wetland including:	
8.6.1. General landuse	For example: mowed road shoulder; forested; old field; paved road and residential lawns etc. Describe any previous and ongoing disturbance in the buffer zone. Buffer zone on north and south sides of wetland are mowed lawn. Buffer on the west is Dorset West Road and the buffer to the east is adjacent to the home site approved by The Town of Dorset and the Water/Wastewater Division of ANR in 1998	
8.6.2. Buffer vegetation	List community type and dominant plant species Managed areas are predominently mixed turf grasses. The buffer adjacent to the east border of the wetland is dense with Fraxinus americana, Lonicera tatarica and Prunus serotina.	
8.6.3. Buffer soils	Use USDA NRCS information where possible, and the ACOE Delineation Manual soil description Buffer soils are Geogia sandy loam	

9.	9. Wetland Determination		If the application involves a wetland determination please answer the following. If not, skip to Section 10.	
	9.1.	Reason for	Please choose one from the dropdown menu:	
		Petition	Add a Section 4.6 presumed wetland to the VSWI map	

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9.2.	Previou s Decisio ns	Please list all determinations and decisions, if any, issued by the Secretary, Panel or former Water Resources Board, pertaining to the wetland or buffer at issue:	
9.3.	Narrativ e	Please provide any narrative to support the petition for a wetland determination here. This section is not required for petitions to add a Section 4.6 presumed wetland to the VSWI map, but is required for all other petitions.	
If the application is on	ly for a W	letland Determination only, skip to Section 13	

10. Project Description Description of the project. For example: six-lot residential subdivision: 10.1.Overall Project expansion of an existing commercial building, access drive to a single family residence. Access drive and underground utilities for one single family home on lot permitted for development in 1998. For example: To construct a residential subdivision, upgrade existing road to **10.2. Project Purpose** improve access, extend a trail system To gain access to an upland approved building site via the mutually agreed right of way presented in this application. Acreage of subject property. 10.3. Acres Owned by Applicant 1.5 10.4. Acres Involved in the Acreage of area involved in the project. 0.12 Project **11. Project Details** Provide details regarding specific impacts to the wetland and buffer zone 11.1.Specific Impacts to List portions of the project that will specifically impact the wetland or buffer zone. Wetland and Buffer The proposed driveway and underground utilities will travel through the **Zone** wetland and buffer zone as shown on the Wetland Impact Plan sheet S-1. The construction will include removal of mineral soil and placement of base gravel over filter fabric. Utility conduits will be burried at the edge of the fill Square footage of buildings, dimension of roads including fill footprint. **11.2. Dimension Details** The proposed driveway will be 12 feet in width on a gravel base 15 feet wide. Total driveway length in the buffer is 135 ft. Total length in Wetland is 160 ft. The fill volume is 170 cu. yd. in the Wetland and 150 cu. yd. in the Buffer. Culvert circumference, length, placement and shapes, or bridge details. 11.3.Bridges and Culverts Three 12 inch diameter 20 foot long ADS culverts will be placed as shown on sheet S-1. they will serve to equalize the water levels on either side of the driveway. Describe any details pertaining to the worked planned in the wetland and **11.4.Construction Sequence** buffer in terms of sequence or phasing that is relevant Construction will begin with of the layout of the southerly limits of construction and placement of barrier fencing at the work area. Mineral soil will be removed and the road base fill will be placed on filter fabric. The filter fabric will be folded over the top of the base fill and covered with 6-8 inches of crushed gravel as a working surface. The filter fabric "envelope" will serve to confine the limits of disturbed area. The vegetation restoration area north of the driveway will be completed after the road base has been constructed but before the placement of the final application of crushed gravel. List any stormwater permits obtained or applied for. Describe any 11.5. Stormwater Design stormwater and/or erosion controls proposed to prevent discharges to the wetland and buffer zone.

WP Application 02/13/2014	Page 5 The road consruction and site development for one single family home will not require a stormwater permit. All construction will follow the specific provisions of the Low Risk Site Handbook for Erosion Protection and Sediment Control.						
11.6.Permanent Demarcation of Limits of Impact	Describe any plantings, fencing, signage, or other memorialization that provides permanent on-the-ground boundaries for the limits of disturbance for ongoing uses. At the easterly limits of the Wetland Buffer a post and rail fence 150 feet in length will define the edge. Along the north side of the proposed drive native vegetation will be restored in 1750 sq. ft. of Wetland and 980 sq. ft. of Buffer						
2. Wetland and Buffer Zone Impacts							
12.1.Wetland Impacts	Summarize the square footage of imp more than one wetland is impacted, p supplemental wetland sheets.						
	Totals						
	Wetland Fill	2520 s.f.					
	Temporary Wetland Impact	s.f.					
	Other Permanent Wetland Impact	s.f.					
	Describe in detail the proposed impact	xt.					
	barn, 120 sq. ft. of Natural Wetland wi the building. Restoration of native veg Wetland will offset this impact.	bance will take place within a 20 foot Peter & Loraine Kelly. 95% of the nanaged as lawn. South of the existing ill be filled to allow the driveway to pass letation in 1750 sq. ft. of managed					
12.2.Buffer Zone Impacts	Summarize the square footage of imp more than one wetland is impacted, p supplemental wetland sheets.						
	Temporary Buffer Impact	S.f.					
	Permanent Buffer Impact	2900 s.f.					
	Describe in detail the proposed impac	t.					
	Placement of gravel for the driveway a West Road with the House site approv ANR in 1998.	and utility conduit will connect Dorset ved by the town of Dorset and Vermont					
12.3.Cumulative Impacts	List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland that could result from the proposed project. The deposition of sand from winter maintenance is the only likely ongoing project impact.						
12.4.Avoidance and Minimization	Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.						
12.4.1. Avoidance	Can the proposed activity be practicably located outside the wetland/buffer zone, or on another site owned or controlled by the applicant or reasonably available to satisfy the basic project purpose? If not, indicate why. This answer should include any examination of alternatives that you have explored including using other properties, requesting easements, and altering the project design.						

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		As directed by the email from Zapata Courage on May 15, 2015, Laura Beckwith contacted all of her adjoining landowners to explore alternative routes having less or no impact. To the north and east, Michael Saracini (50 Bond LN) denied access via fax on 6/30/15. Peter Kelly via email of 6/28/15 replied, "You have requested access to your building lot located behind my home at 2534 Dorset West Road, by building a driveway crossing my back yard from Bond Lane. After careful consideration, I must deny your request, under any circumstances, as such driveway would destroy the privacy of my back yard and pool area." Bordering the lot on the south, Connie Ferguson sent a post card denying access across their property on 10/28/15. Having exhausted these options our designer focused on Minimization.
12.4.2.	Minimization	If the proposed activity cannot practicably be located outside the wetland/buffer zone, have all practicable measures have been taken to avoid adverse impacts on protected functions? Please include any information on on-site alternatives that have been examined; minimizing the size and scope of the project to avoid impacts; or relocating portions of the project to avoid impacts This drivewayaccess received approval from the ACOE and a waiver of
		Water Quality Certification in 2002. ACOE Permit # 200202557. Due to economic conditions the drive was not constructed. The approved in this case is our STUDY #1. Labeled on the plan as KELLY EASEMENT it runs directly through the middle of the Natural Wetland. Related impact is 2700 sq. ft. Natural Wetland and 1925sq. ft. of Buffer. Knowing that this route was poorly conceived we looked to the 20 foot wide right of way which was granted to Laura by deed in 1998 by Kristin Alexandre, Kelly's predeccesor. This route, STUDY #2 on the plan, proved to be somewhat improved with nearly half of the wetland impact in Managed Wetland. Total impact for Study 2 is; 1800sq. ft. Natural Wetland, 1395sq. ft. Managed Wetland, 1680 sq. ft. Buffer. Seeing the benefit to locating the majority of the impact in the managed wetland, where wetland values are already significantly diminished, this designer created STUDY #3 seeking to minimize impact on Natural Wetland and provide opportunity for offsetting restoration efforts. This was done at risk of the fact that any newly proposed route would have to be acceptable to the Kelly's. Study 3 has 2520 sq. ft. of total wetland impact. This includes 120 sq. ft. fill in Natural Wetland, just south of the existing barn and 2400 sq. ft. of Managed Wetland impact crossing the lawn to the upland building site. Buffer impact totals 2900 sq. ft. We strongly believe that Study 3 creates the least impact possible in gaining access to the approved building area. I flagged the southerly limits of the Impact Area in the field and found that within the 120 sq. ft. of Natural Wetland to be filled are; 5 Cornus stolonifera, 8 Fraxinus pennsylvanica and 2 invasive Euonymus atropurpureus with a ground cover of Onoclea sensibilis. This is the total extent of native wetland plant disturbance for the entire project.
12.4.3.	Mitigation	If avoidance of adverse effects on protected functions cannot be practically achieved, has the proposed activity has been planned to minimize adverse impacts on the protected functions and a plan has been developed for the prompt restoration of any adverse impacts on protected functions? Include any information on best management practices to be used for the project both for the initial construction and ongoing use. Also include any proposed restoration of temporary impacts, previously disturbed wetland or buffer zones or proposed conservation that are being used to offset the proposed impacts.
		As a part of persenting Study 3 to the Kelly's for consideration, I included the Natural Vegetation Restoration area to the plan. It functions to screen the Kelly home from the drive and to return over 2700 sq. ft. to native cover types. Of this area 1750 sq. ft. is Managed Wetland to be restored to Natural Wetland. This mitigation will offset 120 sq. ft. of Natural Wetland fill. Buffer area restoration will cover 980 sq. ft. Plan S-2 is a detailed plant list and placement diagram. Several existing trees are incorporated into a plan which restores the shrub and herbaceous plant regime.

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12.4.4. Compensation	appropriate wh	Please refer to Section 9.5c of the rules for compensation, which is appropriate when the project will result in an undue adverse impact. If compensation is proposed please include a summary here.							
13. Supporting materials		Where appropriate list the accompanying material by title, author, date and last revision date. Submit these documents and plans with the application.							
13.1.Location map	and white. An USGS topogra	Provide a project location map that is 8 ½" x 11" and reproducible in black and white. An Environmental Interest Locator Map is appropriate using the JSGS topography map base layer, roads, and VSWI wetlands at minimum. The location map is attached.							
13.2.Site Plans	List by title, au delineation and envelopes and S-1 Wetland In	List by title, author, date and last revision date. Plans should include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes and permanent memorialization. S-1 Wetland Impact Plan Lands of Laura R. Beckwith Dorset West Road Dorset, Vermont, Dated 11/25/2015, by: Woodland Services, Inc. Drawn by:							
13.3.ACOE Delineation			nd date. Re	equired only for	Individual P	ermits.			
Forms				aura Beckwith pi ins	roperty, Doi	rset West			
13.4.Other Supporting Documents	Road, 4/30/2015, by: Christian C. HeinsProvide any other documentation that supports the application. List photographs; easements; agreements; may include a GIS-compatible wetland submittal for determinations; etc.S-2 Natural Vegetation Restoration, dated 11/25/2015 by; Woodland Services Inc. Drawn by: Christian C. Heins.								
13.5.List of Abutters (Neighbors with land adjoining wetland or buffer zone)	document. Peter & Lorain	Attach list of names and mailing addresses or submit as word mailing							
13.5.1. Newspaper Notification	notice, list the i for immediately required for the directly by the	newspaper adjacent List of Ab newspap e notice p	to be used landowners outters. ***N ber you list	ice requirement here. A list of n (500 foot radius OTE: The appli here. Use of n ending on when	ames and a) of the pro icant will b ewspaper i	addresses ject area is e billed notification			
	Wetland Fu	nction S	ummary:	(if more than or	ne wetland i	use			
	supplemental v Functions	vetland she		Functions		Wetland	_		
	& Values	Subject Wetland	Complex	& Values	Subject Wetland	Complex			
14. Check Which Functions are	Flood/Storm Storage			RTE Species					
Present in the Subject Wetland and in the Wetland	Surface & Groundwater Protection			Education & Research					
Complex.	Fish Habitat			Recreation/ Economic					
	Wildlife Habitat	\boxtimes		Open Space/ Aesthetics					
	Exemplary Natural Community			Erosion Control					
15. Coverage under Vermont General Wetland Permit	If applying f	on, plea	se procee	vermont Wet ed to number estions.					

	If applying for Coverage under the Vermont General Wetland Permit, please complete question 15.1 prior to submitting application.	
15.1.VWP Vermont General Permit eligibility	If applying for coverage under the Vermont General Wetland Permit, please verify the following to complete the application:	
checklist	☐ The activity qualifies as an eligible activity for coverage under the Vermont General Wetland Permit	
	The proposed project will meet the conditions applicable to the proposed project in the Vermont Wetland General Permit	
	☐ The activity does not qualify as an Allowed Use under Section 6 of the Vermont Wetland Rules.	
	The activity will not result in an undue adverse impact on protected wetland functions and values, nor does it need additional conditions to protect functions and values.	
	All impacts have been avoided and minimized to the greatest extent possible.	
	The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat.	
	The activity is not located in or adjacent to a vernal pool, fen, or bog.	
	☐The wetland is not at or above 2,500' in elevation (headwaters wetland).	
	The project is not located in a Class I wetland or associated buffer zone.	
	The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.	
Stop here if applying for Covera	ge under the Vermont General Wetland Permit	

Complete the following Function Permit and/or a Wetland Determit	ons and Values checklist if applying for an Individual Wetland nination	
Functions and Values	For each Function and Value, first evaluate the entire wetland or wetland complex and check all that apply. Secondly, evaluate how the wetland in the project area contributes to that function. Thirdly explain how the project will not result in adverse impacts to this function. Include any information on specific avoidance and minimization measures.	
	If more than one wetland complex is involved, use the Supplemental Wetland Forms.	
16. Storage for Flood Water and Storm Runoff	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Constricted outlet or no outlet and an unconstricted inlet.	
	Physical space for floodwater expansion and dense, persistent, emergent vegetation or dense woody vegetation that slows down flood waters or stormwater runoff during	

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		peak flows and facilitates water removal by evaporation and transpiration.	
		If a stream is present, its course is sinuous and there is sufficient woody vegetation to intercept surface flows in the portion of the wetland that floods.	
	\boxtimes	Physical evidence of seasonal flooding or ponding such as water stained leaves, water marks on trees, drift rows, debris deposits, or standing water.	
		Hydrologic or hydraulic study indicates wetland attenuates flooding.	
	func prov of th	by of the above boxes are checked, the wetland provides this stion. Complete the following to determine if the wetland vides this function above or below a moderate level. If none he following apply, the wetland provides this function at a lerate level.	
		ck box if any of the following conditions apply that may cate the wetland provides this function at a <i>lower</i> level.	
		Significant flood storage capacity upstream of the wetland, and the wetland in question provides this function at a negligible level in comparison to upstream storage (unless the upstream storage is temporary such as a beaver impoundment).	
		Wetland is contiguous to a major lake or pond that provides storage benefits independently of the wetland.	
		Wetland's storage capacity is created primarily by recent beaver dams or other temporary structures.	
	\boxtimes	Wetland is very small in size, not contiguous to a stream, and not part of a collection of small wetlands in the landscape that provide this function cumulatively.	
		ck box if any of the following conditions apply that may cate the wetland provides this function at a <i>higher</i> level.	
		History of downstream flood damage to public or private property.	
		Any of the following conditions present downstream of the wetland, but upstream of a major lake or pond, could be impacted by a loss or reduction of the water storage function.	
		1. Developed public or private property.	
		2. Stream banks susceptible to scouring and erosion.	
		3. Important habitat for aquatic life.	
		The wetland is large in size and naturally vegetated.	
		Any of the following conditions present upstream of the wetland may indicate a large volume of runoff may reach the wetland.	
		 1. A large amount of impervious surface in urbanized areas. 	

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	2. Relatively impervious soils.	
	3. Steep slopes in the adjacent areas.	
16.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above A culvert under Dorset West Road discharges to the south west corner of the	
	wetland. This stormwater contributes to the hydrology and sediment load.	
16.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. By following the northerly edge of the managed wetland the destruction of native vegetation will be largely avoided. The ability of the Wetland to store stormwater will be unaffected.	
17. Surface and Ground Water Protection	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Constricted or no outlets.	
	Low water velocity through dense, persistent vegetation.	
	Hydroperiod permanently flooded or saturated.	
	Wetlands in depositional environments with persistent vegetation wider than 20 feet.	
	Wetlands with persistent vegetation comprising a defined delta, island, bar or peninsula.	
	Presence of seeps or springs.	
	Wetland contains a high amount of microtopography that helps slow and filter surface water.	
	Position in the landscape indicates the wetland is a headwaters area.	
	Wetland is adjacent to surface waters.	
	Wetland recharges a drinking water source.	
	Water sampling indicates removal of pollutants or nutrients.	
	Water sampling indicates retention of sediments or organic matter.	
	Fine mineral soils and alkalinity not low.	
	The wetland provides an obvious filter between surface water or ground water and land uses that may contribute point or nonpoint sources of sediments, toxic substances or nutrients to the wetland, such as: steep erodible slopes; row crops; dumps; areas of pesticide, herbicide or fertilizer application; feed lots; parking lots or heavily traveled road; and septic systems.	
	If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.	

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	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.	
	Presence of dead forest or shrub areas in sufficient amounts to result in diminished nutrient uptake.	
	Presence of ditches or channels that confine water and restrict contact of water with vegetation.	
	Wetland is very small in size, not contiguous to a stream, and not part of a collection of small wetlands in the landscape that provide this function cumulatively.	
	Current use in the wetland results in disturbance that compromises this function.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.	
	The wetland is adjacent to a well head or source protection area, and provides ground water recharge.	
	The wetland provides flows to Class A surface waters.	
	The wetland contributes to the protection or improvement of water quality of any impaired waters.	
	The wetland is large in size and naturally vegetated.	
17.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above The Wetland filters stormwater discharged from the pipe under Dorset West Road.	
17.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. The fill in 120 sq. ft. of Natural Wetland adjacent to Dorset West Road will have no measurable effect on the function of surface and groundwater protection. The restoration of 1750 sq. ft. of Managed Wetland will more than replace any lost function.	
18. Fish Habitat	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Contains woody vegetation that overhangs the banks of a stream or river and provides any of the following: shading that controls summer water temperature; cover including refuges created by overhanging branches or undercut banks; source of terrestrial insects as fish food; or streambank stability.	
	Provides spawning, nursery, feeding or cover habitat for fish (documented or professionally judged). Common habitat includes deep marsh and shallow marsh associates with lakes and streams, and seasonally flooded wetlands associated with streams and rivers.	
	Documented or professionally judged spawning habitat for northern pike.	

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	Provides cold spring discharge that lowers the temperature of receiving waters and creates summer habitat for salmonoid species.	
	The wetland is located along a tributary that does not support fish, but contributes to a larger body of water that does support fish. The tributary supports downstream fish by providing cooler water, and food sources.	
18.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
18.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function.	
19. Wildlife Habitat	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Provides resting, feeding staging or roosting habitat to support waterfowl migration, and feeding habitat for wading birds. Good habitats for these species include open water wetlands.	
	Habitat to support one or more breeding pairs or broods of waterfowl including all species of ducks, geese, and swans. Good habitats for these species include open water habitats adjacent shallow marsh, deep marsh, shrub wetland, forested wetland, or naturally vegetated buffer zone.	
	Provides a nest site, a buffer for a nest site or feeding habitat for wading birds including but not limited to: great blue heron, black-crowned night heron, green-backed heron, cattle egret, or snowy egret. Good habitats for these species include open water or deep marsh adjacent to forested wetlands, or standing dead trees.	
	Supports or has the habitat to support one or more breeding pairs of any migratory bird that requires wetland habitat for breeding, nesting, rearing of young, feeding, staging roosting, or migration, including: Virginia rail, common snipe, marsh wren, American bittern, northern water thrush, northern harrier, spruce grouse, Cerulean warbler, and common loon.	
	Supports winter habitat for white-tailed deer. Good habitats for these species include softwood swamps. Evidence of use includes deer browsing, bark stripping, worn trails, or pellet piles.	
	Provides important feeding habitat for black bear, bobcat, or moose based on an assessment of use. Good habitat for these types of species includes wetlands located in a forested mosaic.	
	Has the habitat to support muskrat, otter or mink. Good habitats for these species include deep marshes, wetlands	

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	adjacent to bodies of water including lakes, ponds, rivers and streams.
	Supports an active beaver dam, one or more lodges, or evidence of use in two or more consecutive years by an adult beaver population.
	Provides the following habitats that support the reproduction of Uncommon Vermont amphibian species including:
	1. Wood Frog, Jefferson Salamander, Blue-spotted Salamander, or Spotted Salamander. Breeding habitat for these species includes vernal pools and small ponds.
	2. Northern Dusky Salamander and the Spring Salamander. Habitat for these species includes headwater seeps, springs, and streams.
	3. The Four-toed salamander; Fowler's Toad; Western or Boreal Chorus frog, or other amphibians found in Vermont of similar significance.
	Supports or has the habitat to support significant populations of Vermont amphibian species including, but not limited to Pickerel Frog, Northern Leopard Frog, Mink Frog, and others found in Vermont of similar significance. Good habitat for these types of species includes large marsh systems with open water components.
	Supports or has the habitat to support populations of uncommon Vermont reptile species including: Wood Turtle, Northern Map Turtle, Eastern Musk Turtle, Spotted Turtle, Spiny Softshell, Eastern Ribbonsnake, Northern Watersnake, and others found in Vermont of similar significance.
	Supports or has the habitat to support significant populations of Vermont reptile species, including Smooth Greensnake, DeKay's Brownsnake, or other more common wetland-associated species.
	Meets four or more of the following conditions indicative of wildlife habitat diversity:
	1. Three or more wetland vegetation classes (greater than 1/2 acre) present including but not limited to: open water contiguous to, but not necessarily part of, the wetland, deep marsh, shallow marsh, shrub swamp, forested swamp, fen, or bog;
	 2. The dominant vegetation class is one of the following types: deep marsh, shallow marsh, shrub swamp or, forested swamp;
	3. Located adjacent to a lake, pond, river or stream;
	 4. Fifty percent or more of surrounding habitat type is one or more of the following: forest, agricultural land, old field or open land;

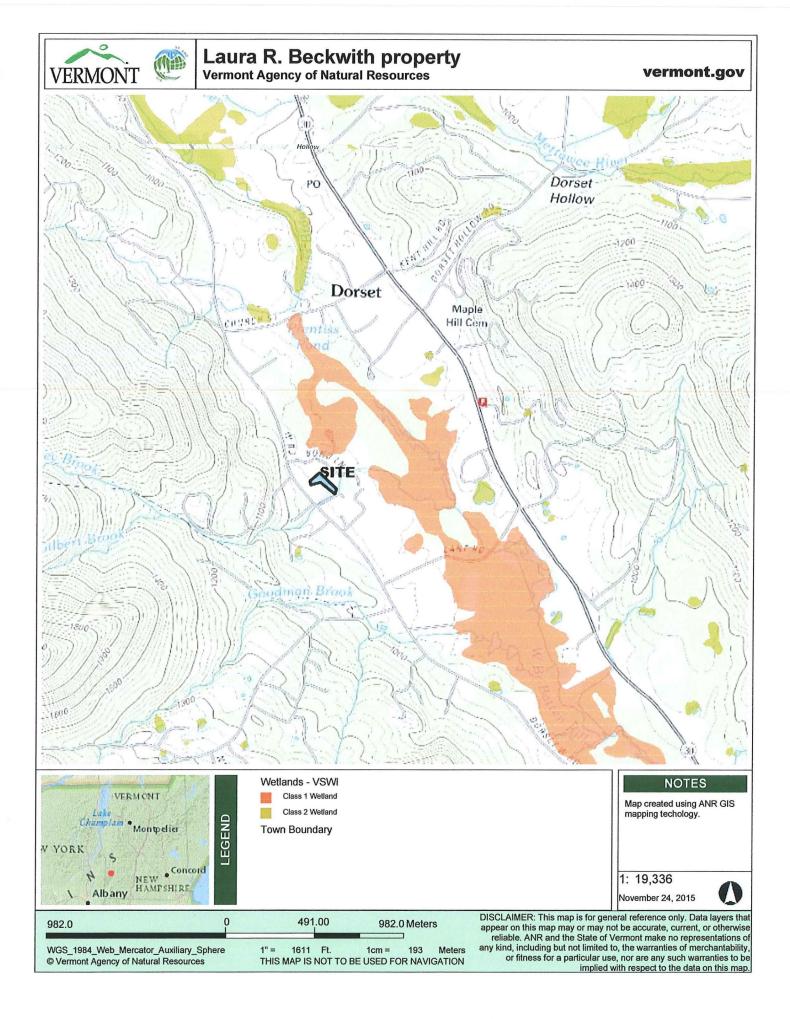
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	5. Emergent or woody vegetation occupies 26 to 75 percent of wetland, the rest is open water;	
	6. One of the following:	
	 i. hydrologically connected to other wetlands of different dominant classes or open water within 1 mile; 	
	ii. hydrologically connected to other wetlands of same dominant class within 1/2 mile;	
	iii. within 1/4 mile of other wetlands of different dominant classes or open water, but not hydrologically connected;	
	Wetland or wetland complex is owned in whole or in part by state or federal government and managed for wildlife and habitat conservation; and	
	Contains evidence that it is used by wetland dependent wildlife species.	
	If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.	
	The wetland is small in size for its type and does not represent fugitive habitat in developed areas (vernal pools and seeps are generally small in size, so this does not apply).	
	The surrounding land use is densely developed enough to limit use by wildlife species (with the exception of wetlands with open water habitat). Can be negated by evidence of use.	
	The current use in the wetland results in frequent cutting, mowing or other disturbance.	
	The wetland hydrology and character is at a drier end of the scale and does not support wetland dependent species.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.	
	The wetland complex is large in size and high in quality.	
	The habitat has the potential to support several species based on the assessment above.	
	Wetland is associated with an important wildlife corridor.	
	The wetland has been identified as a locally important wildlife habitat by an ANR Wildlife Biologist.	
19.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	

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	The Wetland is too small to provide significant habitat on its own. Surrounded by residential use, the .7 acre space provides refuge to animals traveling toward larger Wetlands in the valley floor or mountain woodlands.	
19.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function.	
	The driveway will not detur animals from using the Wetland as before. A post and rail fence or stone wall at the buffer limits will insure that the buffer limits are respected.	
20. Exemplary Wetland Natural Community	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Wetlands that are identified as high quality examples of Vermont's natural community types recognized by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department, including rare types such as dwarf shrub bogs, rich fens, alpine peatlands, red maple-black gum swamps and the more common types including deep bulrush marshes, cattail marshes, northern white cedar swamps, spruce-fir-tamarack swamps, and red maple-black ash seepage swamps are automatically significant for this function.	
	The wetland is also likely to be significant if any of the following conditions are met:	
	Is an example of a wetland natural community type that has been identified and mapped by, or meets the ranking and mapping standards of, the Natural Heritage Information Project of the Vermont Fish and Wildlife Department.	
	Contains ecological features that contribute to Vermont's natural heritage, including, but not limited to:	
	Deep peat accumulation reflecting a long history of wetland formation;	
	Forested wetlands displaying very old trees and other old growth characteristics;	
	A wetland natural community that is at the edge of the normal range for that type;	
	A wetland mosaic containing examples of several to many wetland community types; or	
	A large wetland complex containing examples of several wetland community types.	
	List species or communities of concern:	
20.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
20.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. This function is not present in this Wetland.	

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21. Rare, Threatened, and Endangered Species Habitat	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Wetlands that contain one or more species on the federal or state threatened or endangered lists, as well as species that are rare in Vermont, are automatically significant for this function.	
	The wetland is also likely to be significant if any of the following apply:	
	There is creditable documentation that the wetland provides important habitat for any species on the federal or state threatened or endangered species lists;	
	There is creditable documentation that threatened or endangered species have been present in past 10 years;	
	There is creditable documentation that the wetland provides important habitat for any species listed as rare in Vermont (S1 or S2 ranks), state historic (SH rank), or rare to uncommon globally (G1, G2, or G3 ranks) by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department;	
	There is creditable documentation that the wetland provides habitat for multiple uncommon species of plants or animals (S3 rank).	
	List name of species and ranking:	
21.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
21.2.Statement of no adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. This function is not present in this Wetland.	
22. Education and Research in Natural Sciences	Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.	
	Owned by or leased to a public entity dedicated to education or research.	
	History of use for education or research.	
	Has one or more characteristics making it valuable for education or research.	
22.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
22.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. The Subject Wetland is very small with little diversity. Superior educational and research opportunities exist in the community.	

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23. Recreational Value and Economic Benefits	Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.	
	Used for, or contributes to, recreational activities.	
	Provides economic benefits.	
	Provides important habitat for fish or wildlife which can be fished, hunted or trapped under applicable state law.	
	Used for harvesting of wild foods.	
	Comments:	
23.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
23.2.Statement of no undue	Please explain how the proposed project will not result in any undue,	
adverse impact	adverse impact to this function. Include any avoidance and minimization measures relevant to this function.	
	This function is not present in the Subject Wetland.	
24. Open Space and Aesthetics	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	Can be readily observed by the public; and	
	Possesses special or unique aesthetic qualities; or	
	Has prominence as a distinct feature in the surrounding landscape;	
	Has been identified as important open space in a municipal, regional or state plan.	
	Comments:	
	The Subject Wetland is a common cover type separating manicured home sites along Dorset Hollow Road	
24.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
24.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. This function is not significant.	
25. Erosion Control through Binding and Stabilizing the Soil	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.	
	 Erosive forces such as wave or current energy are present and any of the following are present as well: Dense, persistent vegetation along a shoreline or stream bank that reduces an adjacent erosive force. 	
	Good interspersion of persistent emergent vegetation	

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	Studies show that wetlands of similar size, vegetation type, and hydrology are important for erosion control.	
	What type of erosive forces are present:	
	Lake fetch and waves	
	High current velocities:	
	Water level influenced by upstream impoundment	
	If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.	
	The stream is artificially channelized and/or lacks vegetation that contributes to controlling the erosive force.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.	
	The stream contains high sinuosity.	
	Has been identified through fluvial geomorphic assessment to be important in maintaining the natural condition of the stream or river corridor.	
25.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above	
25.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue adverse impact to this function. Include any avoidance and minimization measures relevant to this function. This function is not present in this Wetland	



AURA R. BECKWITH PROPERTY DORSET WEST ROAD 5-2 NATURAL EGETATION RESTORATION SCALE: 1"= 20' NOV. 28, 2015 EXISTING EXISTING PLANTING PLAN 6" ASH 8"BLK. WILLOW St $\mathbf{\Theta}$ DRIVE 20 GRAVEL ROW 2 - EXISTING 6"BLK. WILLON PROPO SED JADVORD2 NATURAL SCRUB/ SHRUB WETLAND CLASS IT WETLAND LIMITS EDGE OF MANAGED WETLAND LEGEND WETLAND BOUNDARY FLAG X8 WETLAND BOUNDARY PLANT LIST SIZE SYMBOL Q SPECIES 2" CAL. 3 ACER MUDRUM (RED MAPLE) 12 Cornus stolonifera (RED-OSIER DOGWOOD) 2-3' HGT. Aronia prunifolia (PURPLE CHOKEBERRY) 2-3' HGT. 12 Eupatoriade/phus Maculatus (JOE-PIE-WEED) 4"POT 12 (x) WET MEADON & DETENTION BASIN 2LB SEED MIX FROM VERMONT WETLAND PLANT SUPPLY, ORWELL VT EXISTING DECIDUOUS TREES PREPARED BY: CCHEMS WOODLAND SERVICES, INC.

802-375-6970

Woodserv 1@myfairpointinet

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: DORSET WEST ROAD City/County: DORSET, BENNINGTOS Sampling Date: 9/30/2013
Applicant/Owner: LAURA BECKWITH State: VT Sampling Point: D-1
Investigator(s): <u>CHRISTIAN</u> <u>HEINS</u> Section, Township, Range:
Landform (hillslope, terrace, etc.): LEVEL Local relief (concave, convex, none): CONVEX
Slope (%): 2% Lat: 43. 24429 Long: 073. 104 27 Datum: 977 W4585
Soil Map Unit Name: <u>GEORGIA</u> NWI classification: <u>ACL</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.)
Are Vegetation, Soll, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No King Is the Sampled Area
Hydric Soil Present? Yes No Yes No
Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
SAMPLE POINT BESIDE FOOT PATH IN WOODS
HYDROLOGY
Wetland Hydrology Indicators: <u>Secondary Indicators (minimum of two required)</u>
Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained Leaves (B9)Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Valer Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Vide Marks (Cr) Notify and the Outline O
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)
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 X Depth (inches): Wetland Hydrology Present? Yes No X
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
NOHE
Remarks:
WETLAND DELINEATION FLARS 1-12 BEGINNING
AT WEST POAD AT SW. COPATER OF LETLAND

VEGETATION – Use scientific names of plants.		LAU		SECKWITH Sampling Point:
Tree Stratum (Plot size: // AC)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. FRAXINUS OMERICAND		<u></u>	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Prunus Scrotina	20	/	ERU	Total Number of Dominant
3. Populus Tremulaides	10		FREY	Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
6				Prevalence Index worksheet:
7			•	Total % Cover of: Multiply by:
	100	= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 10 R_)	_			FACW species x 2 =
1. FRAXINUS AMERICANA	80	<u> </u>	FACU	FAC species x 3 =
2. LONICERA TATATICA	10	4	FARU	FACU species x 4 =
3. Ellonymusatropurpureus	10	M	FACU	UPL species x 5 =
4				
5				Prevalence Index = B/A =
6	. <u></u>			Hydrophytic Vegetation Indicators:
7	-	-		Rapid Test for Hydrophytic Vegetation
	100	= Total Cov	er	Dominance Test is >50%
Herb Stratum (Plot size: 10 R)				Prevalence Index is ≤3.0 ¹
1. Viola brittoniana	35	<u> </u>	FAC	Morphological Adaptations ¹ (Provide supporting- data in Remarks or on a separate sheet)
2. POLYSTICHUM acrostichoides	10	<u> </u>	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3 Cyst opteris Fragilis	25	<u>N</u>	FACU	¹ Indicators of hydric soil and welland hydrology must
4.				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than 3.28 ft (1 m) tall.
10			·	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	 .	<u></u>		
12	70			Woody vines – All woody vines greater than 3.28 ft in height.
Marchelling Clashing (Distaine)	<u> 70</u> =	= Total Cov	er	
Woody Vine Stratum (Plot size:)				
1			<u> </u>	
2]	
3				Hydrophytic Vegetation
4				Present? Yes No
Demortes (legisdo photo sumbos have as a sumerical		Total Cove	ər [
Remarks: (Include photo numbers here or on a separate sl	leel)	÷		
				-

US Army Corps of Engineers

÷.,

Northcentral and Northeast Region - Interim Version

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SOIL

LAURA BECKWITH

Sampling Point: $\underline{\mathcal{D}}$

1 · · · · ·	ription: (Describe)	to the dept				or confim	n the absence	of indicat	ors.)		
Depth (inches)	<u>Matrix</u> Color (moist)		Redo Color (moist)	x Feature %	s Type ¹	Loc ²	Texture		Remarks	·	
0-8	JOYR 7/3	100		0		******************	PSL				
8-14	10 YR 4/6	100	, ,	0			LFS			······································	
14-20	10YR 4/4	100		0			SL	11957	LDRAIN	EN	
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	ncentration, D=Depl		Doducod Matrix CS				nine ² Lon	ation: DI -	Pore Lining, N	-Motriv	
Hydric Soil I			Reduced Malin, Co	-Govered	I UI CUALEI	a sanu Gi			matic Hydric		
Histosol			Polyvalue Below		(S8) (LRR	R,			(LRR K, L, MI		
Histic Ep Black His	ipedon (A2) stic (A3)		MLRA 149B) — Thin Dark Surfa		RRRMI	RA 1498)			ox (A16) (LRF or Peat (S3) (
	n Sulfide (A4)	-	Loamy Mucky M						(LRR K, L)		
	Layers (A5)		Loamy Gleyed N)		Polyvalue Below Surface (S8) (LRR K, L)				
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6)						Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)					
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						Piedma	nt Floodpl	ain Soils (F19)	(MLRA 149B)		
Sandy Gleyed Matrix (S4) Redox Depressions (F8)							ipodic (TA rent Mater		A, 145, 149B)		
Sandy Redox (S5) Stripped Matrix (S6)								c Surface (TF1	2)		
Dark Surl	face (S7) (LRR R, M	LRA 149B)					Other (I	Explain in I	Remarks)		
³ Indicators of	hydrophytic vegetatio	on and well	and hydrology must	he nrese	nt unless	disturbed	or problematic				
	ayer (if observed):							-	······	788	
Type:											
Depth (incl	hes): <u>NOHR</u>	<u></u>					Hydric Soll I	resent?	Yes	No <u>×</u>	
Remarks:											
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WETLAND DETERMINATION DATA FORM – Northcentra	I and Northeast Region
Project/Site: DORSET KlEST ROAD City/County: DORSET/R	San Ningro Sampling Date: 4/30/2015
	State: VT Sampling Point: D-2
Investigator(s): CHRISTIAN C. HEINS Section, Township, Range:	······································
Landform (hillslope, terrace, etc.): <u>TFRRACK</u> Local relief (conca	
Slope (%): 190 Lat: 43.24422 Long: 073.104	
Soll Map Unit Name: GEORGIA: LOAM	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	al Circumstances" present? Yes <u>X</u> No
	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area	
Hydric Soil Present? Yes <u>X</u> No within a Wetland?	Yes No
	d Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	· · ·
INDICATORS ARE CORNUS STOLONIFEIR AND C	Pnoclea sensibilis
WETLAND IS STHEVB/SCRUB	
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) Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	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 Solls (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) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes Vo Depth (inches): 4"	
Saturation Present? Yes Ko Depth (inches): 2" Wetland H	lydrology Present? Yes 🔀 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ilable:
NONE	
Remarks:	
	· · · · ·
	A.

VEGETATION - Use scientific names of plants.	L	AUR	4 Bec	FWITH Sampling Point: <u>D-2</u>			
Tree Stratum (Plot size:)	Absolute % Cover			Dominance Test worksheet:			
1. <u>No NE</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A)			
2 3				Total Number of Dominant Species Across All Strata: (B)			
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:/00% (A/B)			
6				Prevalence index worksheet:			
7		····		Total % Cover of: Multiply by:			
	=	Total Co	ver	OBL species x 1 =			
Sapling/Shrub Stratum (Plot size:)		,		FACW species x 2 =			
1. Cornus stolonifera	70	<u> </u>	FACW	FAC species x 3 =			
2. Alnus rugosa	20	M	EACW	FACU species x 4 = UPL species x 5 =			
3				Column Totals: (A) (B)			
4				Prevalence Index = B/A =			
5							
6			<u> </u>	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation			
7	90=		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - - -	✓ Dominance Test is >50%			
	<u></u> =	· I otal Cov	/er	$\frac{1}{2}$ Prevalence Index is $\leq 3.0^{1}$			
<u>Herb Stratum</u> (Plot size:) 1. <u>Onoclea</u> <u>sensibilis</u>	60	У	FACIN	Morphological Adaptations ¹ (Provide supporting- data in Remarks or on a separate sheet)			
2				Problematic Hydrophytic Vegetation ¹ (Explain)			
3							
4				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 at breast height (DBH), regardless of height.			
8				Sapling/shrub - Woody plants less than 3 in. DBH			
9	<u></u>			and greater than 3.28 ft (1 m) tall.			
10				Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
11		<u>-</u>					
12	100			Woody vines – All woody vines greater than 3.28 ft in height.			
Mandu Vine Strokum (Dieksimm	<u>_00</u> =	Total Cov	ег				
Woody Vine Stratum (Plot size:) 1. NONE							
		· · · · · · · · · · · · · · · · · · ·					
2							
3	1 - A			Hydrophytic Vegetation			
4	t it star	T-1.10		Present? Yes X No			
Remarks: (Include photo numbers here or on a separate s		Total Cov	er				
Temana. (molude photo numbers nere of on a separate s	noouj						
				÷.			
				- 17 19 10			

US Army Corps of Engineers

Northcentral and Northeast Region - Interim Version

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix Color (molst)	%	Color (moist)	K Features	Type ¹ Lo	c ²	Texture		Remarks	
0-3	2.54 3/4	100	- · ·				ORGANK	5+	TURATE	53 ·
3-8	2.57 3/2	100					SIL		TURATE	
	-			· · · · · · · · · · · · · · · · · · ·	-					
		••••••••••••••••••••••••••••••••••••••	<u> </u>				\$			·
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	••••••••••••••••••••••••••••••••••••••		Mattigethythere a second black polytopic a second polytopic	+++	······	·				
17										
Hydric Soil	oncentration, D=Deple Indicators:		Reduced Matrix, CS	=Covered o	r Coated Sar	nd Gra	Indicators fo		Pore Lining, M matic Hydric S	
Histosol		-	Polyvalue Below MLRA 149B)		8) (LRR R,		2 cm Mu	ck (A10) ((LRR K, L, ML ox (A16) (LRR	RA 149B)
Black Hi	stic (A3)	-	Thin Dark Surfac	ce (S9) (LRI		(49B)	5 cm Mu	cky Peat	or Peat (S3) (L	
	n Sulfide (A4) i Layers (A5)	-	Loamy Mucky M Loamy Gleyed N		LRR K, L)				(LRR K, L) Surface (S8) (L	RRK.L)
V Depleted	Below Dark Surface	(A11) _	Depleted Matrix	(F3)					(S9) (LRR K,	
	ark Surface (A12) lucky Mineral (S1)		Redox Dark Sur Depleted Dark S						lasses (F12) (LRR K, L, R) (MLRA 149B)
5	ileyed Matrix (S4)	ر. 	Redox Depressi				Mesic Sp	odic (TA	5) (MLRA 144	
	edox (S5) Matrix (S6)		· · · ·					ent Materi	al (TF2) Surface (TF1)	2)
	face (S7) (LRR R, M	LRA 149B)						xplain in F		-1
³ Indicators of	hydrophytic vegetati	on and wet	and hydrology must	be present,	unless distu	irbed c	or problematic.			
Restrictive I	ayer (if observed):					T			- 2 g/m	
Туре: <u>5</u>	1LT LAYE	e.								-
Depth (inc	:hes): <u> </u>		·				Hydric Soil P	resent?	Yes	No
Remarks: S	ATURATED	10	2"							
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	en de la seconda d	al Nation								
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