

Vermont Wetland Section Wetland Application Database Form (AFFIX TO THE FRONT OF THE APPLICATION)

Applicant Name: Village of Woodstock		Representative Name: Mark Bannon	
Town where project is located: Woodstock		County: Windsor	
Project Location Description: Maxham Meadow Way, Woodstock <i>911 Street Address or direction from nearest intersection</i>			
Project Summary: Construct a stabilized drive and snow depository in a portion of a wetland buffer.			
Permit Type Requested (check all that apply)			
<input type="checkbox"/> Vermont General Permit Coverage		<input type="checkbox"/> Wetland Determination	<input checked="" type="checkbox"/> Vermont Wetland Permit
Impact Calculations: Total up proposed impacts from wetland tables listed below			
Total Wetland Impact		0square feet (s.f.)	Total Buffer Zone Impact
			23788square feet (s.f.)
Total Wetland Clearing (qualified linear projects only)		0square feet (s.f.)	Total Buffer Zone Clearing (qualified linear projects only)
			square feet (s.f.)
Permit Fees: Make check payable to - State of Vermont			
Wetland Impact Fee: (\$0.75/sf)		\$0.00	Administrative Fee: \$240
Buffer Impact Fee: (\$0.25/sf)		\$5,947.00	Total Check Amount: \$6,187
Clearing Fee: (\$0.25/sf)		\$	
Existing Land Use Type: (check all that apply)			
<input checked="" type="checkbox"/> Agriculture		<input type="checkbox"/> Forestry	<input type="checkbox"/> Residential (Subdivision)
<input type="checkbox"/> Transportation		<input type="checkbox"/> Parks/Rec/Trail	<input type="checkbox"/> Residential (Single Family)
			<input type="checkbox"/> Industrial/ commercial
			<input type="checkbox"/> Institutional
			<input type="checkbox"/> Undeveloped
Proposed Land Use Type: (check all that apply)			
<input checked="" type="checkbox"/> Agriculture		<input type="checkbox"/> Forestry	<input type="checkbox"/> Residential (Subdivision)
<input checked="" type="checkbox"/> Transportation		<input type="checkbox"/> Parks/Rec/Trail	<input type="checkbox"/> Residential (Single Family)
			<input type="checkbox"/> Industrial/ commercial
			<input type="checkbox"/> Institutional
			<input type="checkbox"/> No Change
Proposed Impact Type: (check all that apply)			
<input type="checkbox"/> Buildings		<input type="checkbox"/> Utilities	<input type="checkbox"/> Parking
<input type="checkbox"/> Driveway		<input type="checkbox"/> Parks/Path	<input type="checkbox"/> Septic/Well
<input checked="" type="checkbox"/> Road		<input type="checkbox"/> Agriculture	<input type="checkbox"/> Stormwater
<input type="checkbox"/> Dry Hydrant		<input type="checkbox"/> Pond	<input type="checkbox"/> Lawn
<input type="checkbox"/> Beaver dam alteration		<input type="checkbox"/> Silviculture	<input type="checkbox"/> Aesthetics
			<input checked="" type="checkbox"/> Other
			<input type="checkbox"/> No Impact
Wetland 1: (Label using Wetland ID from application if applicable, use supplemental sheets if more than one wetland is being impacted)		Location: Maxham Meadow Way,	
Wetland Type: PFO1 - Forested, broadWL		Size Class : 5-10 acres	
Proposed Alterations			
Wetland Alteration:		Buffer Zone Alteration:	Wetland Alteration Type (check all that apply)
Wetland Fill: 0s.f.		Temporary: 0s.f.	<input type="checkbox"/> Dredge
Permanent: 0s.f.		Permanent: 23,788 s.f.	<input checked="" type="checkbox"/> Drain
			<input type="checkbox"/> Cut Vegetation
			<input checked="" type="checkbox"/> Stormwater
			<input type="checkbox"/> Trench/Fill
			<input type="checkbox"/> Other
Mitigation			
Avoidance and Minimization (s.f. of wetland NOT impacted):		Wetland: s.f.	Buffer Zone s.f.
Wetland Mitigation: (s.f. Gained)			
Restoration s.f.		Enhancement s.f.	Creation s.f.
Creation s.f.		Conservation s.f.	Conservation s.f.
Reason for Mitigation:			
<input type="checkbox"/> Correction of Violation		<input type="checkbox"/> Mitigation to offset permit impacts	<input type="checkbox"/> Voluntary

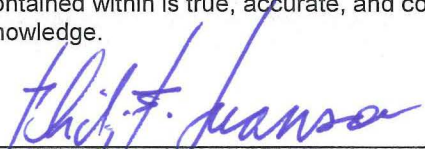


All Applications Should be Mailed To:

**Vermont Wetlands Program
 Watershed Management Division
 One National Life Drive, Main 2
 Montpelier, VT 05620-3522**

Staff To Complete

Wetland Project Number:			
Wetland Project Name:		DEC ID#:	
Date Application Received:			
Request for Information Date:		Information Received Date:	
Request for Information Date:		Information Received Date:	
Date Application Complete:		Distribution Complete Date:	
Notice Begin Date:		Notice End Date:	
Final Action Date:		Public Meeting Date:	
Check#	Check Amount	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	Village of Woodstock c/o Phil Swanson, Town Manager	
1.2. Applicant Address	PO Box 488 Woodstock VT 05091-0488	
1.3. Applicant Phone Number	(802) 457-3456	
1.4. Applicant Email	phil@townofwoodstock.org	
1.5. Applicant Signature (original signature required)	<p>By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge.</p> <p style="text-align: center;"> <input checked="" type="checkbox"/>  Date: 11-20-15 </p>	
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	Mark Bannon	
2.2. Representative Address	Bannon Engineering Post Office Box 171 Randolph VT 05060	
2.3. Representative Phone Number	802.728.6500	
2.4. Applicant Email	mark@bannonengineering.com	
2.5. Representative Signature (original signature required)	<p>By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge.</p> <p style="text-align: center;"> <input checked="" type="checkbox"/>  Date: 11/18/15 </p>	
3. Landowner	Landowner must sign the application. Use this space if landowner is different from the applicant	
3.1. Landowner Name	Woodstock Resort Corp. c/o Mr. Gary Thulanderr	
3.2. Landowner Address	14 The Green, Woodstock, VT 05091	
3.3. Landowner Phone Number	802 457-6616	
3.4. Landowner Email	GSTE@woodstockinn.com	
3.5. Landowner Easement	<p>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.</p> <p>The Village of Woodstock has an OPTION to purchase the land.</p>	
3.6. Landowner Signature (original signature required)	<p>By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge.</p> <p style="text-align: center;"> <input checked="" type="checkbox"/>  Date: 11/20/15 </p>	
4. Location of Wetland and Project	<p>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> <p>Northerly of Maxham Meadow Way, Woodstock</p>	

5. Site Visit Date and Attendees	Date of visit with District Wetlands Ecologist August 2015	List people present for site visits including Ecologist, landowner, and representatives. Zapatta Courage Phil Swanson	
6. Wetland Classification	The wetland is a Class II wetland because (Choose one): The wetland is contiguous to a VSWI mapped wetland		
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	Can be obtained from the Environmental Interest Locator Map for mapped wetlands 5.4-acres		
7.2. Natural Community Types Present	List all wetland types in the wetland or wetland complex and their abundance or relative abundance. For example: 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland 5.4-acres forested seep wetland - predominately hillside toe seeps with mapped Vernal pool northerly of subject wetland		
7.3. Landscape Position	Where is the wetland located on the landscape? Examples: bottom of a basin, edge of a stream, shore of a lake, etc. Toe of terraced slope		
7.4. Wetland Hydrology	Describe the main source of wetland hydrology for the wetland complex. List any river, streams, lakes and ponds. groundwater seep Include answers to the following where appropriate:		
7.4.1. Direction of flow	For example: stream flows from north to south through the wetland complex. ground water seeps from toe slope north westerly to Ottequechee river		
7.4.2. Influence of hydrology on wetland complex	For example: The river provides flood water to the wetland in the spring. The hillslope terraces across the flood plain with seeps at terrace toes		
7.4.3. Relation to the project area	Distance between the project area and any nearby surface waters. 650 +/-		
7.4.4. Hydroperiod	Discuss frequency and duration of flooding, ponding, and/or soil saturation. Subject wetland is ponded in the spring into summer with seep continuing		
7.5. Surrounding Landuse of the Wetland Complex	For example: rural residential and forested; agricultural and undeveloped, agricultural		
7.6. Relation to Other Nearby Wetlands	Provide any information on wetlands or wetland complexes that are close enough to contribute to the overall function of the wetland in question. The complex is located along flood plain of Ottequechee River		
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. The subject wetland was a farm homestead with foundations and structures remaining. The wooden portion of buildings were removed circa 1960's.		
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 south westerly of the larger wetland complex		

8.2. Wetland Landuse	For example: mowed lawn; old field; naturally vegetated. Describe any previous and ongoing disturbance in the subject wetland. naturally vegetated	
8.3. Wetland Vegetation	List dominant wetland community type and associated dominant plant species. Forested seep - Acer negund, Rhamnus carthartica, Quercus bicolor, Vitis riparia, onoclea sensibilis	
8.4. Wetland Soils	Use USDA NRCS information where possible and use the ACOE Delineation Manual soil description Windsor loamy sand - sandy gleyed matrix	
8.5. Wetland Hydrology	Use descriptions from the ACOE Delineation Manual. Surface water (A1) High Water Table (A2) Saturation (A3)	
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. Agricultural - corn field	
8.6.2. Buffer vegetation	List community type and dominant plant species Seep w/ edge vegetation consistng of Acer negudo, Tilia americana, Pinus strobus, Prunus pensylvanica, Prunus virginiana, Populus tremuloides	
8.6.3. Buffer soils	Use USDA NRCS information where possible, and the ACOE Delineation Manual soil description Windsor loamy sand (5B)	

9. Wetland Determination	If the application involves a wetland determination please answer the following. If not, skip to Section 10.	
9.1. Reason for Petition	Please choose one from the dropdown menu: Application does not involve a determination	
9.2. Previous Decisions	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: NA	
9.3. Narrative	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. NA	

If the application is only for a Wetland Determination only, skip to Section 13

10. Project Description		
10.1. Overall Project	Description of the project. For example: six-lot residential subdivision; expansion of an existing commercial building, access drive to a single family residence. Project is to install a snow depository and access drive in the buffer area to stockpile snow removed from village roads in the winter. Town trucks would haul snow removed from the village to this location to be stockpiled until spring melt.	
10.2. Project Purpose	For example: To construct a residential subdivision, upgrade existing road to improve access, extend a trail system	

	Locate a snow depository for town use									
10.3.Acres Owned by Applicant	<p>Acreege of subject property. 2+/-</p>									
10.4.Acres Involved in the Project	<p>Acreege of area involved in the project. 0.4 +/-</p>									
11. Project Details	Provide details regarding specific impacts to the wetland and buffer zone									
11.1.Specific Impacts to Wetland and Buffer Zone	<p>List portions of the project that will specifically impact the wetland or buffer zone.</p> <p>Snow stockpile to be located in a portion of buffer zone.</p>									
11.2.Dimension Details	<p>Square footage of buildings, dimension of roads including fill footprint.</p> <p>Total length of drive is 711' and is 18' wide. Approximately 168' of the drive will be located within the wetland buffer.</p>									
11.3.Bridges and Culverts	Culvert circumference, length, placement and shapes, or bridge details.									
11.4.Construction Sequence	<p>Describe any details pertaining to the worked planned in the wetland and buffer in terms of sequence or phasing that is relevant</p> <p>Erosion control silt fence will be set initially before installing 711' x 18' wide drive. Approximately 168' (3,024-sf) of the drive will be located within the wetland buffer. The stabilized drive will prevent erosion by vehicle tracking when depositing snow. Snow will be collected and stockpiled immediately after snow storms to minimize potential for contamination. Snow would be allowed to melt as the season changes in spring. No accelerants would be used to speed melt.</p>									
11.5.Stormwater Design	<p>List any stormwater permits obtained or applied for. Describe any stormwater and/or erosion controls proposed to prevent discharges to the wetland and buffer zone.</p> <p>Project is envisioned to be less than 1-acre disturbance. If greater than an acre is to be disturbed, a Construction General Stormwater Permit will be obtained Erosion controls will include silt fence and stone lined perrimeter surrounding the snow melt area. Upland disturbed areas will be stabilized with straw mulch and conservation mix grass seed.</p>									
11.6.Permanent Demarcation of Limits of Impact	<p>Describe any plantings, fencing, signage, or other memorialization that provides permanent on-the-ground boundaries for the limits of disturbance for ongoing uses.</p> <p>The road will demarcate the western boundary of the snow dump and the east side will be demarcated with silt fencing placed 10' outside of the western wetland boundary.</p>									
12. Wetland and Buffer Zone Impacts										
12.1.Wetland Impacts	<p>Summarize the square footage of impact in the appropriate category. If more than one wetland is impacted, provide that information and use the supplemental wetland sheets.</p> <table border="1"> <tr> <td colspan="2">Totals</td> </tr> <tr> <td>Wetland Fill</td> <td>0 s.f.</td> </tr> <tr> <td>Temporary Wetland Impact</td> <td>0 s.f.</td> </tr> <tr> <td>Other Permanent Wetland Impact</td> <td>0 s.f.</td> </tr> </table>	Totals		Wetland Fill	0 s.f.	Temporary Wetland Impact	0 s.f.	Other Permanent Wetland Impact	0 s.f.	
Totals										
Wetland Fill	0 s.f.									
Temporary Wetland Impact	0 s.f.									
Other Permanent Wetland Impact	0 s.f.									

	<p>Describe in detail the proposed impact.</p> <p>No direct wetland impacts envisioned in this project</p>					
<p>12.2. Buffer Zone Impacts</p>	<p>Summarize the square footage of impact in the appropriate category. If more than one wetland is impacted, provide that information and use the supplemental wetland sheets.</p> <p>Totals</p> <table border="1" data-bbox="560 506 1385 573"> <tr> <td>Temporary Buffer Impact</td> <td>0 s.f.</td> </tr> <tr> <td>Permanent Buffer Impact</td> <td>23,788 s.f.</td> </tr> </table> <p>Describe in detail the proposed impact.</p> <p>The permanent impacts are due to the proposed drive and the annual placement of snow within the wetland buffer.</p>	Temporary Buffer Impact	0 s.f.	Permanent Buffer Impact	23,788 s.f.	
Temporary Buffer Impact	0 s.f.					
Permanent Buffer Impact	23,788 s.f.					
<p>12.3. Cumulative Impacts</p>	<p>List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland that could result from the proposed project.</p> <p>The project is to stockpile snow in the buffer. The topography slopes westerly into the adjacent corn field. Activity takes place in the winter dormant season at times of snow cover. Therefore, the project would have minimal ongoing impacts on the functions of the wetland.</p>					
<p>12.4. Avoidance and Minimization</p>	<p>Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.</p>					
<p>12.4.1. Avoidance</p>	<p>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.</p> <p>According to the applicant, the town been investigation alternative sites but has not located any available lands for the project other than the proposed project. The site was chosen based on proximity to the village, its location on the outskirts of flood plain, location in regards to runoff from the snow melt given the proximity of the river.</p>					
<p>12.4.2. Minimization</p>	<p>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</p> <p>According to the applicant, the project initially envisioned using the top embankment to push snow over bank into the convex land form. Concerns for wetland impacts relocated the project westerly to place the snow in a more precise manner with least impact to the wetland. Minor regrading of the buffer are will need to be done initially to smooth out the area. This area will be seeded and mulched.</p>					
<p>12.4.3. Mitigation</p>	<p>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</p>					

	<p>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.</p>													
	<p>There is a recognition that the removed snow may contain urban debris and road salts. To minimize potential for this debris, snow will be removed immediately after storms as practibly possible. This best management practice will reduce contamination potentials. In the spring, the area will be swepted of debris which will be hauled to landfill, as applicable. The mitigation for this project is the buffer and stream restoration projects that have or will be done to the original snow dump once this project is permitted and constructed.</p>													
<p>12.4.4. Compensation</p>	<p>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.</p> <p>Currently, no compensation is proposed as wetlands are not directly impacted.</p>													
<p>13. Supporting materials</p>	<p>Where appropriate list the accompanying material by title, author, date and last revision date. Submit these documents and plans with the application.</p>													
<p>13.1. Location map</p>	<p>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 USGS topography map base layer, roads, and VSWI wetlands at minimum. VT Wetlands Inventory Map</p>													
<p>13.2. Site Plans</p>	<p>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. Site Plan (C-1), Craig Jewett of Otter Creek Engineering, 11/6/2015 Details (C-2), Craig Jewett of Otter Creek Engineering, 11/6/2015</p>													
<p>13.3. ACOE Delineation Forms</p>	<p>List by author, location, and date. Required only for Individual Permits. Mark Bannon, T1/2 W, T1/2UP, T1W, T1UP, T2W, T2UP, T3W, T3UP, 7/15/2015</p>													
<p>13.4. Other Supporting Documents</p>	<p>Provide any other documentation that supports the application. List photographs; easements; agreements; may include a GIS-compatible wetland submittal for determinations; etc. Project Narrative, NRCS Soil Map</p>													
<p>13.5. List of Abutters (Neighbors with land adjoining wetland or buffer zone)</p>	<p>Attach list of names and mailing addresses or submit as word mailing document. Attached</p>													
<p>13.5.1. Newspaper Notification</p>	<p>If choosing the option to fulfill the notice requirement with a newspaper notice, list the newspaper to be used here. A list of names and addresses for immediately adjacent landowners (500 foot radius) of the project area is required for the List of Abutters. ***NOTE: The applicant will be billed directly by the newspaper you list here. Use of newspaper notification may extend the notice period, depending on when the notice posts in the newspaper. The Woodstock Standard</p>													
<p>14. Check Which Functions are Present in the Subject Wetland and in the Wetland Complex.</p>	<p>Wetland Function Summary: (if more than one wetland use supplemental wetland sheets)</p> <table border="1" data-bbox="553 1906 1474 2018"> <thead> <tr> <th>Functions & Values</th> <th>Subject Wetland</th> <th>Wetland Complex</th> <th>Functions & Values</th> <th>Subject Wetland</th> <th>Wetland Complex</th> </tr> </thead> <tbody> <tr> <td>Flood/Storm Storage</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>RTE Species</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Functions & Values	Subject Wetland	Wetland Complex	Functions & Values	Subject Wetland	Wetland Complex	Flood/Storm Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	RTE Species	<input type="checkbox"/>	<input type="checkbox"/>	
Functions & Values	Subject Wetland	Wetland Complex	Functions & Values	Subject Wetland	Wetland Complex									
Flood/Storm Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	RTE Species	<input type="checkbox"/>	<input type="checkbox"/>									

	Surface & Groundwater Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Education & Research	<input type="checkbox"/>	<input type="checkbox"/>
	Fish Habitat	<input type="checkbox"/>	<input type="checkbox"/>	Recreation/Economic	<input type="checkbox"/>	<input type="checkbox"/>
	Wildlife Habitat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space/Aesthetics	<input type="checkbox"/>	<input type="checkbox"/>
	Exemplary Natural Community	<input type="checkbox"/>	<input type="checkbox"/>	Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>

15. Coverage under Vermont General Wetland Permit

If applying for an Individual Vermont Wetland Permit or Determination, please proceed to number 16 and answer the remaining application questions.

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 checklist

If applying for coverage under the Vermont General Wetland Permit, please verify the following to complete the application:

- 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 Coverage under the Vermont General Wetland Permit

Complete the following Functions and Values checklist if applying for an Individual Wetland Permit and/or a Wetland Determination

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.
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	<p>If more than one wetland complex is involved, use the Supplemental Wetland Forms.</p>	
<p>16. Storage for Flood Water and Storm Runoff</p>	<p><input checked="" type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Constricted outlet or no outlet and an unconstricted inlet. <input checked="" type="checkbox"/> Physical space for floodwater expansion and dense, persistent, emergent vegetation or dense woody vegetation that slows down flood waters or stormwater runoff during peak flows and facilitates water removal by evaporation and transpiration. <input type="checkbox"/> 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. <input type="checkbox"/> Physical evidence of seasonal flooding or ponding such as water stained leaves, water marks on trees, drift rows, debris deposits, or standing water. <input checked="" type="checkbox"/> Hydrologic or hydraulic study indicates wetland attenuates flooding. <p>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.</p> <p><input checked="" type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 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). <input type="checkbox"/> Wetland is contiguous to a major lake or pond that provides storage benefits independently of the wetland. <input type="checkbox"/> Wetland's storage capacity is created primarily by recent beaver dams or other temporary structures. <input checked="" type="checkbox"/> 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. <p><input type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.</p> <ul style="list-style-type: none"> <input type="checkbox"/> History of downstream flood damage to public or private property. <input type="checkbox"/> 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. 	

	<ul style="list-style-type: none"> <input type="checkbox"/> 1. Developed public or private property. <input type="checkbox"/> 2. Stream banks susceptible to scouring and erosion. <input type="checkbox"/> 3. Important habitat for aquatic life. <input type="checkbox"/> The wetland is large in size and naturally vegetated. <input type="checkbox"/> Any of the following conditions present upstream of the wetland may indicate a large volume of runoff may reach the wetland. <ul style="list-style-type: none"> <input type="checkbox"/> 1. A large amount of impervious surface in urbanized areas. <input type="checkbox"/> 2. Relatively impervious soils. <input type="checkbox"/> 3. Steep slopes in the adjacent areas. 	
<p>16.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p> <p>The wetland complex has locations that are in the mapped FEMA Base Flood Elevation. Therefore, some locations of the wetland complex provide flood storage. The subject wetland is outside of the FEMA mapped BFE and is very small in size compared to the adjacent flood plain.</p>	
<p>16.2. Statement of no undue adverse impact</p>	<p>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.</p> <p>The proposed project will stockpile snow in the buffer area with surrounding land draining towards the river; not the subject wetland.</p>	
<p>17. Surface and Ground Water Protection</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. <ul style="list-style-type: none"> <input type="checkbox"/> Constricted or no outlets. <input checked="" type="checkbox"/> Low water velocity through dense, persistent vegetation. <input type="checkbox"/> Hydroperiod permanently flooded or saturated. <input type="checkbox"/> Wetlands in depositional environments with persistent vegetation wider than 20 feet. <input type="checkbox"/> Wetlands with persistent vegetation comprising a defined delta, island, bar or peninsula. <input checked="" type="checkbox"/> Presence of seeps or springs. <input type="checkbox"/> Wetland contains a high amount of microtopography that helps slow and filter surface water. <input type="checkbox"/> Position in the landscape indicates the wetland is a headwaters area. <input type="checkbox"/> Wetland is adjacent to surface waters. <input type="checkbox"/> Wetland recharges a drinking water source. <input type="checkbox"/> Water sampling indicates removal of pollutants or nutrients. <input type="checkbox"/> Water sampling indicates retention of sediments or organic matter. 	

	<ul style="list-style-type: none"> <input type="checkbox"/> Fine mineral soils and alkalinity not low. <input type="checkbox"/> 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. <p>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.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level. <ul style="list-style-type: none"> <input type="checkbox"/> Presence of dead forest or shrub areas in sufficient amounts to result in diminished nutrient uptake. <input type="checkbox"/> Presence of ditches or channels that confine water and restrict contact of water with vegetation. <input type="checkbox"/> 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. <input type="checkbox"/> Current use in the wetland results in disturbance that compromises this function. <input type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level. <ul style="list-style-type: none"> <input type="checkbox"/> The wetland is adjacent to a well head or source protection area, and provides ground water recharge. <input type="checkbox"/> The wetland provides flows to Class A surface waters. <input type="checkbox"/> The wetland contributes to the protection or improvement of water quality of any impaired waters. <input type="checkbox"/> The wetland is large in size and naturally vegetated. 	
<p>17.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p> <p>The wetland is the result of a hillside seep.</p>	
<p>17.2. Statement of no undue adverse impact</p>	<p>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.</p> <p>The proposed project will stockpile snow in the buffer area with surrounding land draining towards the river not the subject wetland</p>	
<p>18. Fish Habitat</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. <ul style="list-style-type: none"> <input type="checkbox"/> 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 	

	<p>refuges created by overhanging branches or undercut banks; source of terrestrial insects as fish food; or streambank stability.</p> <ul style="list-style-type: none"> <input type="checkbox"/> 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. <input type="checkbox"/> Documented or professionally judged spawning habitat for northern pike. <input type="checkbox"/> Provides cold spring discharge that lowers the temperature of receiving waters and creates summer habitat for salmonoid species. <input type="checkbox"/> 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. 	
<p>18.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>18.2. Statement of no undue adverse impact</p>	<p>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.</p>	
<p>19. Wildlife Habitat</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. <ul style="list-style-type: none"> <input type="checkbox"/> 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. <input type="checkbox"/> 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. <input type="checkbox"/> 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. <input type="checkbox"/> 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 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;
- 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 *lower* 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 *higher* level.

	<ul style="list-style-type: none"> <input type="checkbox"/> The wetland complex is large in size and high in quality. <input type="checkbox"/> The habitat has the potential to support several species based on the assessment above. <input type="checkbox"/> Wetland is associated with an important wildlife corridor. <input type="checkbox"/> The wetland has been identified as a locally important wildlife habitat by an ANR Wildlife Biologist. 	
<p>19.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p> <p>The subject wetland provides cover vegetation and habitat for birds and reptiles.</p>	
<p>19.2. Statement of no undue adverse impact</p>	<p>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.</p> <p>The proposed project will stockpile snow in the buffer area with surrounding land draining towards the river not the subject wetland. Activities will take place in the winter when the wetland is snow covered and bird and reptile activitve. The project will be an occassional activity before and after snow events.</p>	
<p>20. Exemplary Wetland Natural Community</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. <ul style="list-style-type: none"> <input type="checkbox"/> 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: <ul style="list-style-type: none"> <input type="checkbox"/> 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. <input type="checkbox"/> Contains ecological features that contribute to Vermont’s natural heritage, including, but not limited to: <ul style="list-style-type: none"> <input type="checkbox"/> Deep peat accumulation reflecting a long history of wetland formation; <input type="checkbox"/> Forested wetlands displaying very old trees and other old growth characteristics; <input type="checkbox"/> A wetland natural community that is at the edge of the normal range for that type; <input type="checkbox"/> A wetland mosaic containing examples of several to many wetland community types; or <input type="checkbox"/> A large wetland complex containing examples of 	

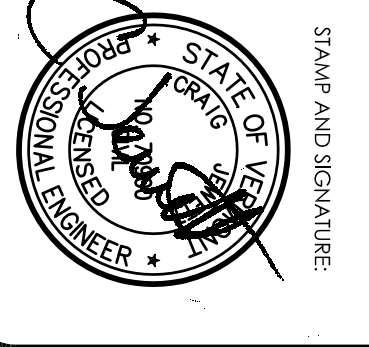
	<p style="text-align: center;">several wetland community types.</p> <p style="text-align: center;">List species or communities of concern:</p>	
<p>20.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>20.2. Statement of no undue adverse impact</p>	<p>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.</p>	
<p>21. Rare, Threatened, and Endangered Species Habitat</p>	<p><input type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</p> <p><input type="checkbox"/> 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.</p> <p>The wetland is also likely to be significant if any of the following apply:</p> <p><input type="checkbox"/> There is credible documentation that the wetland provides important habitat for any species on the federal or state threatened or endangered species lists;</p> <p><input type="checkbox"/> There is credible documentation that threatened or endangered species have been present in past 10 years;</p> <p><input type="checkbox"/> There is credible 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;</p> <p><input type="checkbox"/> There is credible documentation that the wetland provides habitat for multiple uncommon species of plants or animals (S3 rank).</p> <p>List name of species and ranking:</p>	
<p>21.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>21.2. Statement of no adverse impact</p>	<p>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.</p>	
<p>22. Education and Research in Natural Sciences</p>	<p><input type="checkbox"/> Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.</p> <p><input type="checkbox"/> Owned by or leased to a public entity dedicated to education or research.</p>	

	<input type="checkbox"/> History of use for education or research. <input type="checkbox"/> Has one or more characteristics making it valuable for education or research.	
<p>22.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>22.2. Statement of no undue adverse impact</p>	<p>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.</p>	
<p>23. Recreational Value and Economic Benefits</p>	<input type="checkbox"/> Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function. <input type="checkbox"/> Used for, or contributes to, recreational activities. <input type="checkbox"/> Provides economic benefits. <input type="checkbox"/> Provides important habitat for fish or wildlife which can be fished, hunted or trapped under applicable state law. <input type="checkbox"/> Used for harvesting of wild foods. <p>Comments:</p>	
<p>23.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>23.2. Statement of no undue adverse impact</p>	<p>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.</p>	
<p>24. Open Space and Aesthetics</p>	<input type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. <input type="checkbox"/> Can be readily observed by the public; and <input type="checkbox"/> Possesses special or unique aesthetic qualities; or <input type="checkbox"/> Has prominence as a distinct feature in the surrounding landscape; <input type="checkbox"/> Has been identified as important open space in a municipal, regional or state plan. <p>Comments:</p>	
<p>24.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>24.2. Statement of no undue adverse impact</p>	<p>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.</p>	

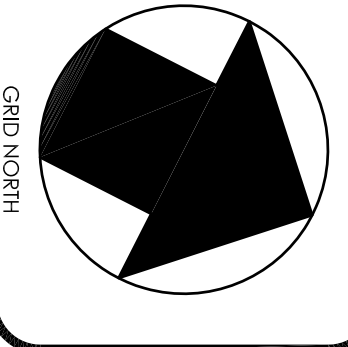
<p>25. Erosion Control through Binding and Stabilizing the Soil</p>	<p><input type="checkbox"/> Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Erosive forces such as wave or current energy are present and any of the following are present as well: <ul style="list-style-type: none"> <input type="checkbox"/> Dense, persistent vegetation along a shoreline or stream bank that reduces an adjacent erosive force. <input type="checkbox"/> Good interspersion of persistent emergent vegetation and water along course of water flow. <input type="checkbox"/> Studies show that wetlands of similar size, vegetation type, and hydrology are important for erosion control. <p>What type of erosive forces are present:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lake fetch and waves <input type="checkbox"/> High current velocities: <input type="checkbox"/> Water level influenced by upstream impoundment <p>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.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level. <ul style="list-style-type: none"> <input type="checkbox"/> The stream is artificially channelized and/or lacks vegetation that contributes to controlling the erosive force. <input type="checkbox"/> Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level. <ul style="list-style-type: none"> <input type="checkbox"/> The stream contains high sinuosity. <input type="checkbox"/> Has been identified through fluvial geomorphic assessment to be important in maintaining the natural condition of the stream or river corridor. 	
<p>25.1. Subject Wetland</p>	<p>Please explain how the subject wetland contributes to the function listed above</p>	
<p>25.2. Statement of no undue adverse impact</p>	<p>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.</p>	



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STAMP AND SIGNATURE:
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 OTTER CREEK ENGINEERING, INC.
 DESIGN ENGINEER



VILLAGE OF WOODSTOCK
SNOW DUMP
WOODSTOCK, VERMONT

PERMITTING
 DATE ISSUED: 11/6/15
 REVISIONS:

DRAWN BY: HB
 CHECKED BY: CJ
 SCALE: 1"=30'
 PROJECT NO.: 659-001
 CAD FILE: 659-001-1
SITE PLAN
 DRAWING NO. **C-1**

CONSTRUCTION NOTES

1. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO ANY SITE GRADING ACTIVITIES.
2. ALL "HOT HOLES" ON MAHAY MEADOW WAY WITHIN PROJECT LIMITS SHALL BE EXCAVATED TO NATIVE MATERIAL, FILLED WITH 6" OF CRUSHED GRAVEL TO PAVEMENT SUBGRADE, AND FULLY COMPACTED. PATCH WITH BITUMINOUS CONCRETE PAVEMENT TO MATCH ROADWAY.
3. ALL NON-PAVED REPAVED AREAS TO BE SEEDED WITH CONSERVATION MIX AND MULCHED.
4. ALL SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING.

LEGEND

- guard rail
- property line (w/ surface label)
- driveway (w/ surface label)
- tree line/hedge row (existing trees to be cut)
- 2 foot contour
- 10 foot contour
- 100 year floodplain
- 50' wetland buffer
- stream
- sewer manhole
- traverse station
- perculation test
- test pit
- FINISH GRADE
- SILT FENCE
- PROPERTY LINE
- MONITORING WELL

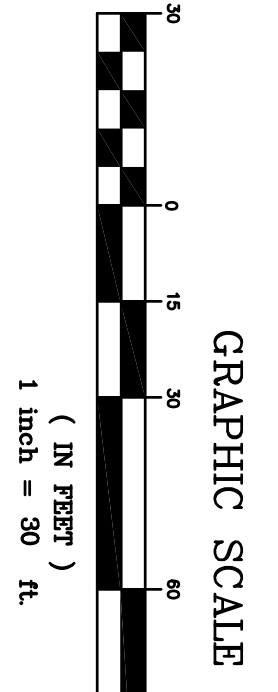
GENERAL NOTES

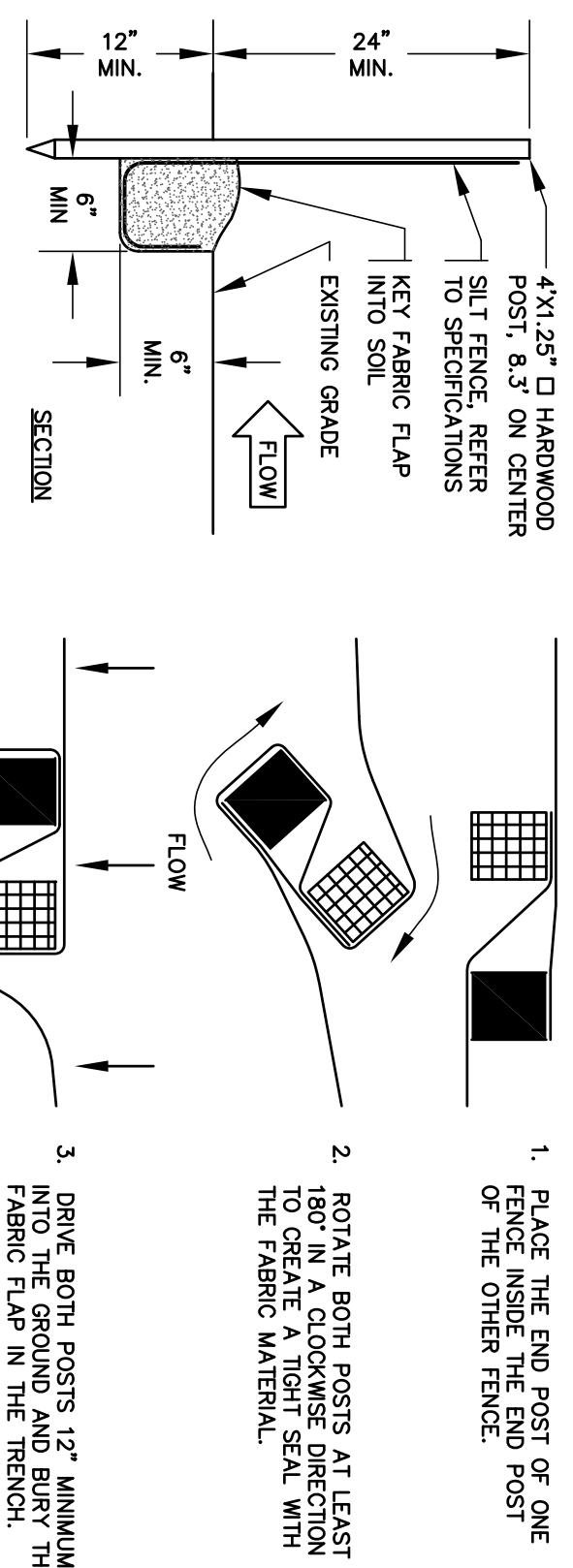
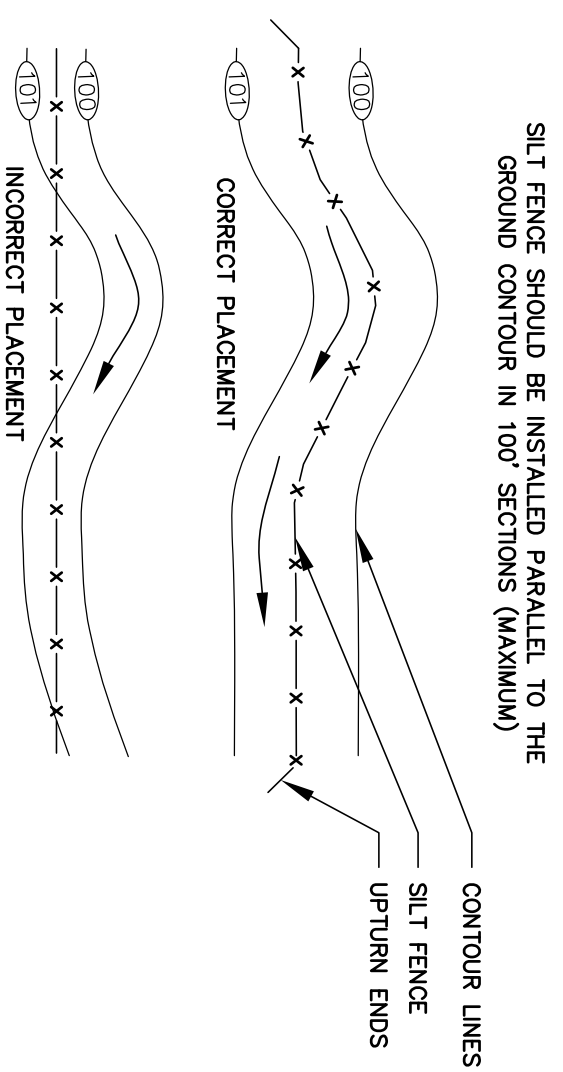
1. THESE PLANS ARE BASED ON:
 - A. DRAWING PREPARED BY HORIZONS ENGINEERING, INC. OF WHITE RIVER JUNCTION, VERMONT TITLED "PRELIMINARY PLAN - SHEET 3 OF 4" DATED JAN. 2012, ADDITIONAL SURVEY USING A THIRD SECOND TOTAL STATION CONDUCTED BY OTTER CREEK ENGINEERING, INC. ON 8/14/2012.
 - B. DRAWING PREPARED BY CENTRAL VERMONT PUBLIC SERVICE CORPORATION, RUTLAND, VERMONT TITLED "PROPOSED SUBSTATION - JAKOS CENTRAL VERMONT PUBLIC SERVICE CORPORATION C-1735, SERVICE CENTER - WOODSTOCK, VERMONT" RECORDED FOR RECORD MARCH 31, 1995.
2. BASE FLOOD ELEVATION FOR PROJECT AREA IS 666.0' BASED ON FLOOD INSURANCE RATE MAP #60270344E, WINDSOR COUNTY, VERMONT, PANEL 344 OF 837, EFFECTIVE DATE SEPTEMBER 28, 2007. SURVEY ELEVATIONS SHOWN ARE BASED ON AN ASSUMED DATUM. ELEVATION CORRECTION FACTOR TO CORRELATE TO NGVD 1929 IS +14.3'. BASE FLOOD ELEVATION IS 666.0' (651.7' SURVEY).
3. ELEVATION IS BASED ON DRAWING PREPARED BY HORIZONS ENGINEERING, INC. OF WHITE RIVER JUNCTION, VERMONT TITLED "PRELIMINARY PLAN - SHEET 3 OF 4" DATED JAN. 2012. THIS ELEVATION IS AN ASSUMED DATUM.
4. COORDINATE SYSTEM IS BASED ON DRAWING PREPARED BY HORIZONS ENGINEERING, INC. OF WHITE RIVER JUNCTION, VERMONT TITLED "PRELIMINARY PLAN - SHEET 3 OF 4" DATED JAN. 2012.
5. FOR CLARITY, TEXT DENOTING EXISTING ITEMS IS SHOWN IN LOWER CASE, AND TEXT DENOTING PROPOSED ITEMS IS UPPERCASE AND BOLD.
6. REFER TO LEGEND LOCATED ON THIS SHEET FOR SYMBOL DESIGNATIONS.
7. ALL UTILITIES ARE SHOWN AS APPROXIMATE LOCATIONS AND SHALL BE FIELD VERIFIED BY CONTRACTOR BEFORE COMMENCING WITH CONSTRUCTION ACTIVITIES.
8. THIS IS NOT A BOUNDARY SURVEY.

PLANTING SCHEDULE

LABEL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE
TREES				
⊙ A.F.	2	ACER FREDMANNI	'AUTUMN BLAZE' MAPLE	2-2.5"
⊙ O.B.	2	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5-3"
⊙ P.G.	2	PICEA GLAUCA	WHITE SPRUCE	8-10'
⊙ P.A.	2	PICEA ABIES	NORWAY SPRUCE	6-7'

NOTE:
 1. DECIDUOUS TREES ARE SIZED BY CALIPER. CONIFEROUS TREES ARE SIZED BY HEIGHT.

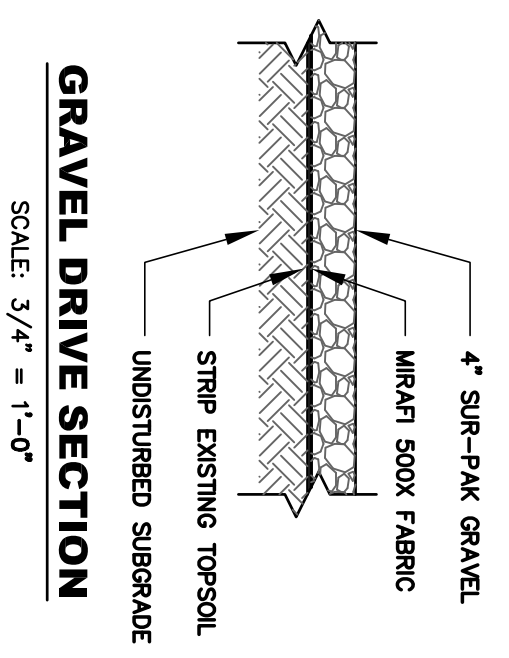




NOTES:
 1. SILT FENCE SHALL BE INSTALLED AT THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES BEFORE UPSLOPE AND DISTURBANCE BEGINS.
 2. REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

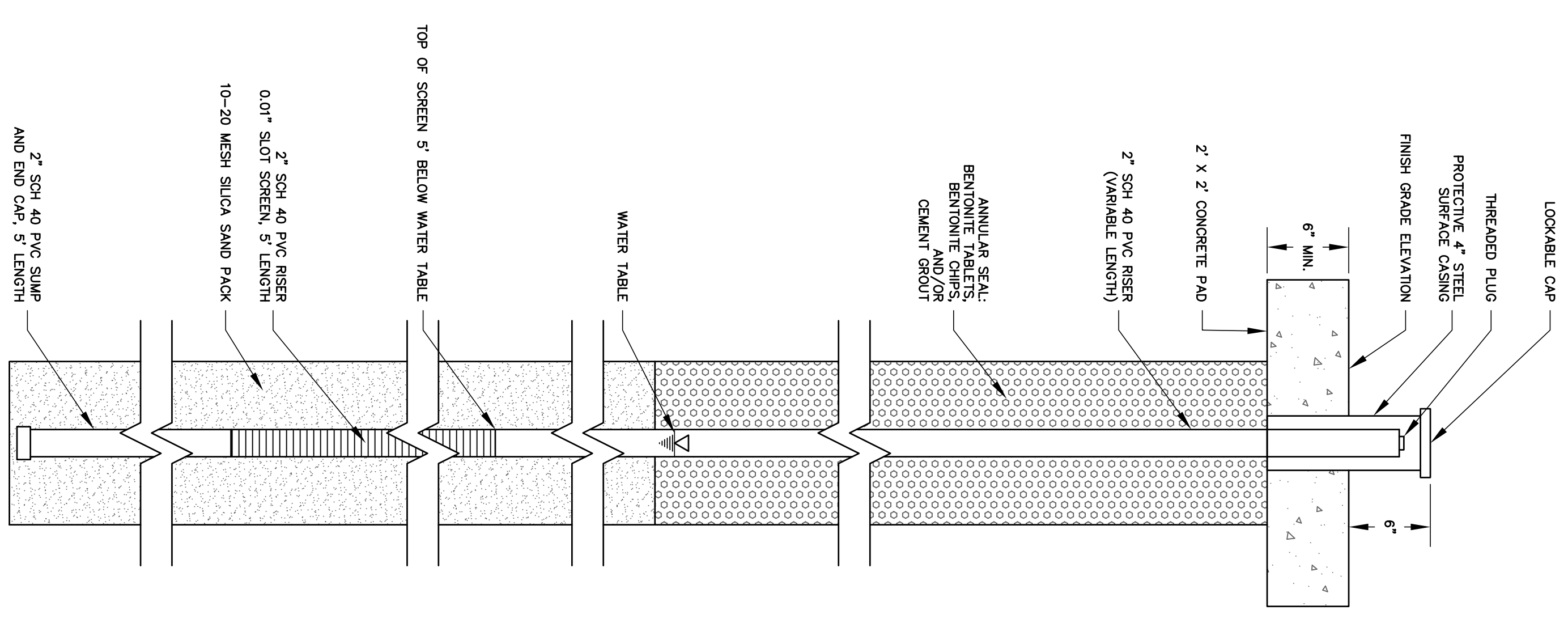
SILT FENCE DETAIL

NOT TO SCALE



GRAVEL DRIVE SECTION

SCALE: 3/4" = 1'-0"



NOTE:
 OF GROUND WATER TABLE NOT KNOWN. PRONG FOR WELL SHALL BE BASED ON A PER LINEAR FOOT BASIS.

SCHEMATIC GROUNDWATER MONITORING WELL DETAIL

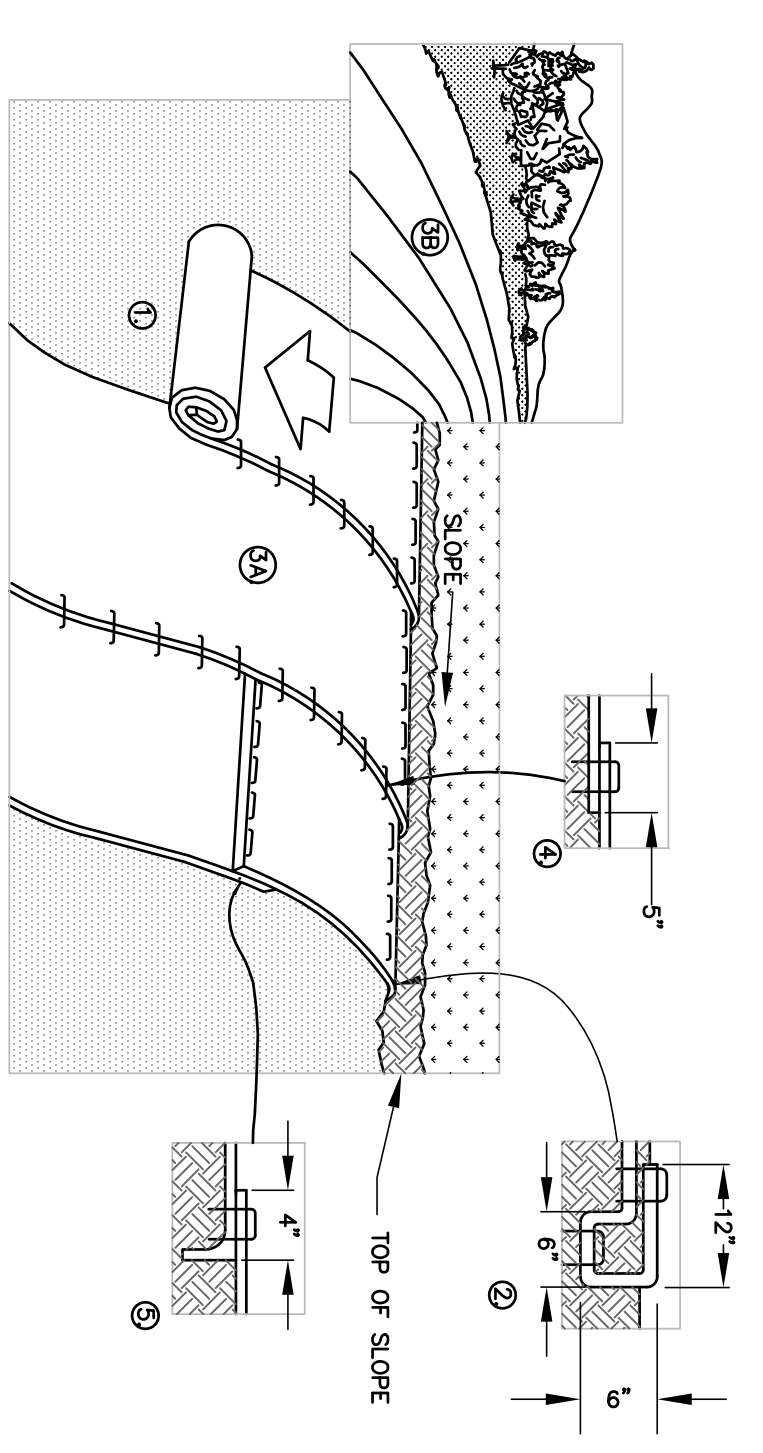
NOT TO SCALE

EROSION CONTROL NOTES

1. THE PROJECT IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE STATE OF VERMONT'S CONSTRUCTION GENERAL PERMIT (3-9020).
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF VERMONT WATER QUALITY STANDARDS. ANY FINES ASSESSED BY REGULATORY AGENCIES FOR THE NONCOMPLIANCE WITH STATE WATER QUALITY STANDARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PERSONNEL REQUIRED TO INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) FOR THIS PROJECT.
3. THE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS DO NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE, EVALUATE AND CONSIDER ALTERNATIVES AND TO PROPOSE APPROPRIATE RECOMMENDATIONS IN ORDER TO LIMIT POTENTIAL WATER QUALITY IMPACTS.
4. EROSION CONTROL MEASURES SHALL BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED AFTER PROJECT AREA AND DRAINAGE COURSES ARE FULLY ESTABLISHED AND STABLE.
5. ALL DISTURBED AREAS NOT UNDER ACTIVE CONSTRUCTION SHALL BE STABILIZED BY ROUGH GRADING TO MINIMIZE SLOPES AND MULCHED. FOLLOWING FINAL GRADING OF ANY PORTION OF THE SITE, CONTRACTOR SHALL LOAM, SEED AND MULCH WITHIN ONE WEEK.
6. REFER TO CONTRACT SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
7. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL CATCH BASINS WITHIN 100 FEET DOWN GRADIENT OF THE ACTIVE WORKED CONSTRUCTION AREA. INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SNOW DUMP OPERATION AND MAINTENANCE

1. SLOPES ON SNOW PAK SHALL BE 1:1.5 OR LESS. SNOW SHALL NOT BE PLACED AT AN ELEVATION ABOVE THE GRADE OF MAHJAN MEADOW WAY (677') TO PREVENT SNOW MELT FROM DRAINING ONTO THE ROAD.
2. NO MACHINERY SHALL ENTER THE SNOW DUMP FOR CLEANUP UNTIL MAY 1 OR AFTER "MUD SEASON".
3. SNOW DUMP SHALL BE INSPECTED ON A YEARLY BASIS FOR TRASH, DEBRIS AND OTHER MAINTENANCE ISSUES.
4. ANY AREAS OF EROSION OR SEDIMENT BUILD-UP SHALL BE CLEANED UP, REGRADED IF NECESSARY, SEED WITH CONSERVATION MIX AND MULCHED.



- NOTES:
 1. BLANKETS SHALL BE PREPARED PRIOR TO INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BLANKET AT TOP OF THE SLOPE TO BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. TRENCH SHALL BE BACKFILLED AND COMPACTED AFTER STAPLING. SECURE BLANKET OVER SOIL WITH ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 5" OVERLAP.
 5. CONSECUTIVE BLANKETS SPUNGED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 4" OVERLAP. BURY END OF LOWER FABRIC 6" DEEP AND STAPLE THROUGH OVERLAPPED AREA.
 6. ROLLED EROSION PRODUCT REQUIRED ON ALL SLOPES 3:1 (3" HORIZ. TO 1" VERT.) OR GREATER.
 7. ROLLED EROSION CONTROL PRODUCT SHALL BE PREPARED AND DEGRADABLE PROCESSED MATERIAL OR POLYMER FIBERS MECHANICALLY STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX, COMPLYING WITH SPECIFICATIONS.

ROLLED EROSION CONTROL PRODUCT DETAIL

NOT TO SCALE

OTTERCREEK ENGINEERING
 404 East Main Street
 East Montpelier, VT 05672
 Telephone: 802-862-6522
 Fax: 802-862-6440
 110 Merchants Row
 4th Floor, Suite 15
 Rutland, VT 05701
 Telephone: 802-247-8880
 Fax: 802-247-8870
 Email: info@ottercreek.com

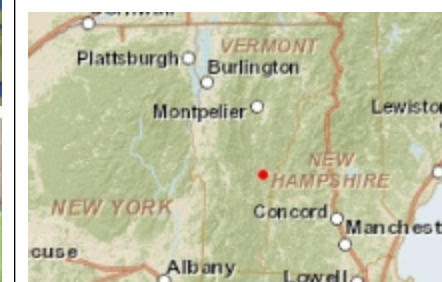
STAMP AND SIGNATURE:













 DESIGN ENGINEER

THESE DRAWINGS SHALL NOT BE ALTERED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ANY REVISIONS SHALL BE MADE BY THE ENGINEER AND NOTED ON THE REVISION BLOCK. © 2018
 OTTER CREEK ENGINEERING, INC.

VILLAGE OF WOODSTOCK
SNOW DUMP
WOODSTOCK, VERMONT

PERMITTING
 DATE ISSUED: 11/6/15
 REVISIONS:
 DRAWN BY: HB
 CHECKED BY: CJ
 SCALE: SHOWN
 PROJECT NO.: 659-001
 CAD FILE: 659-001-3
 TITLE: DETAILS
 DRAWING NO: **C-2**



LEGEND

-  Vernal Pools Confirmed – AE/VCE
-  Vernal Pools Unconfirmed – AE/VCE
- Wetlands - VSWI**
-  Class 1 Wetland
-  Class 2 Wetland
-  Wetlands - VSWI Advisory Layer
-  Soils - Hydric
-  Waterbody
-  Stream
-  Parcels (where available)
- Image**
-  Red: Band_1
-  Green: Band_2
-  Blue: Band_3

IMPORTANT! The Wetlands Viewer is designed to help the public research wetland locations and features. Only a qualified wetland scientist may determine the absence or presence of a wetland and the boundaries. Not all wetlands are mapped. Wetlands not mapped on the Vermont Significant Wetland Inventory may still be considered significant.

1: 3,160

1in = 263 ft.
 1cm = 32 meters

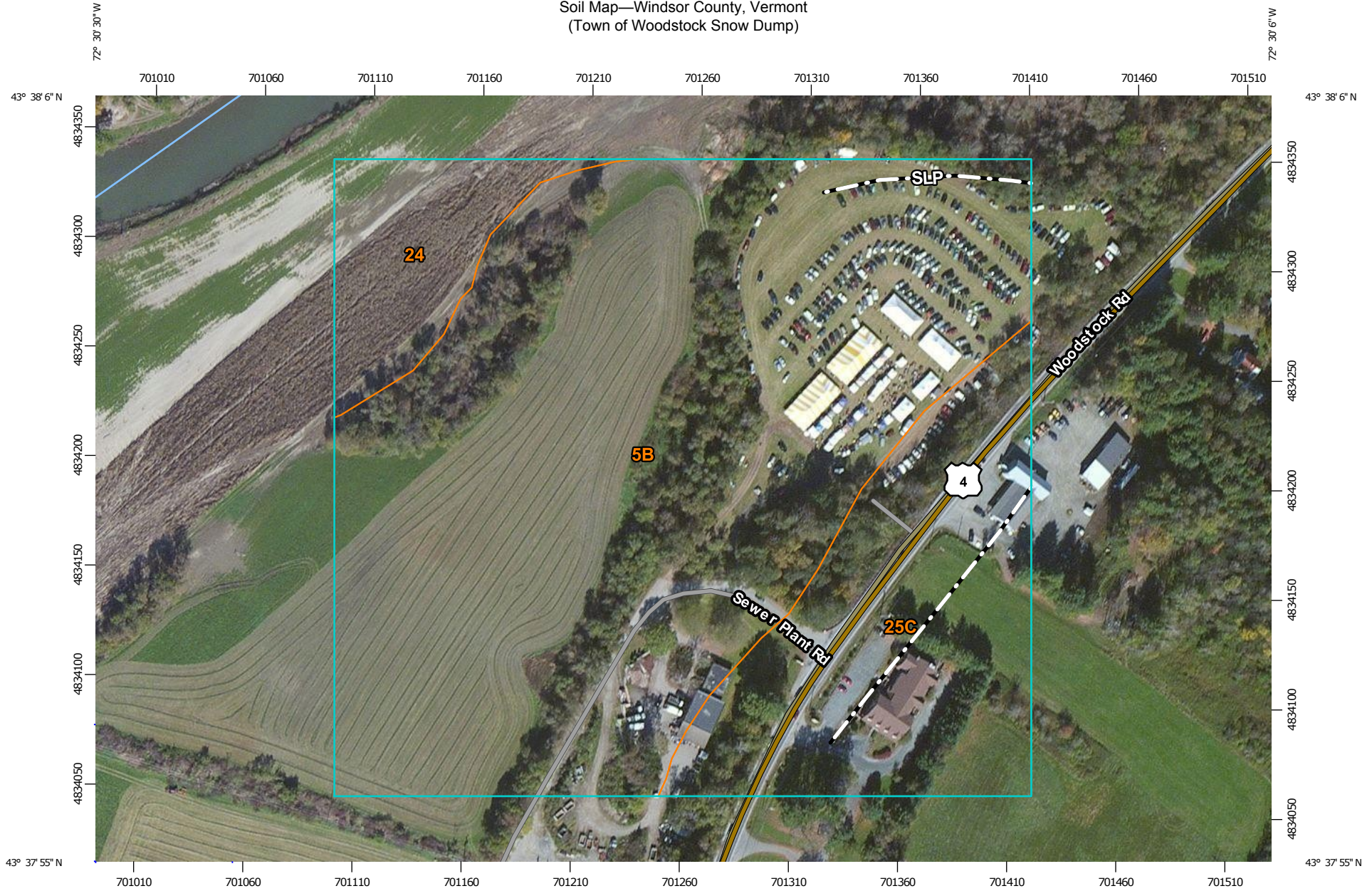


161.0 0 80.00 161.0 Meters

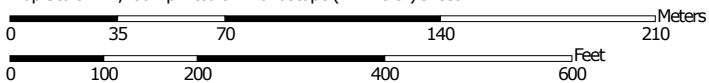
NOTES

Map created using ANR's Wetlands Inventory Map

Soil Map—Windsor County, Vermont
(Town of Woodstock Snow Dump)



Map Scale: 1:2,460 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84





MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Windsor County, Vermont
Survey Area Data: Version 19, Sep 25, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 10, 2011—Oct 8, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Windsor County, Vermont (VT027)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5B	Windsor loamy sand, 0 to 8 percent slopes	16.1	69.9%
24	Podunk fine sandy loam, 0 to 3 percent slopes, occasionally flooded	1.8	7.6%
25C	Buckland loam, 8 to 15 percent slopes	5.2	22.4%
Totals for Area of Interest		23.0	100.0%

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Woodstock Snow Dump City/County: Windsor Sampling Date: T2W
 Applicant/Owner: Town of Woodstock State: VT Sampling Point: 7-15-15
 Investigator(s): W. Rannon Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): toe of slope Local relief (concave, convex, none): Concave Slope (%): _____
 Subregion (LRR or MLRA): 3 Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil NX or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N or Hydrology N 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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)
T2W - bottom of slope btw corn field - location of proposed snow dump original. *Note: wetland has old foundations + slab elements. Soils likely disturbed several years ago. Assume typical of current.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	___ Moss Trim Lines (B16)
<input checked="" type="checkbox"/> Water Marks (B1)	___ Dry-Season Water Table (C2)
___ Sediment Deposits (B2)	___ Crayfish Burrows (C8)
___ Drift Deposits (B3)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
___ Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)
___ Iron Deposits (B5)	___ Geomorphic Position (D2)
___ Inundation Visible on Aerial Imagery (B7)	___ Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	___ Microtopographic Relief (D4)
___ Water-Stained Leaves (B9)	___ FAC-Neutral Test (D5)
___ Aquatic Fauna (B13)	
___ Marl Deposits (B15)	
___ Hydrogen Sulfide Odor (C1)	
___ Oxidized Rhizospheres on Living Roots (C3)	
___ Presence of Reduced Iron (C4)	
___ Recent Iron Reduction in Tilled Soils (C6)	
___ Thin Muck Surface (C7)	
___ Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2-3"</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>6"</u>	
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2-3"</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Location is at toe of slope in proposed project center.

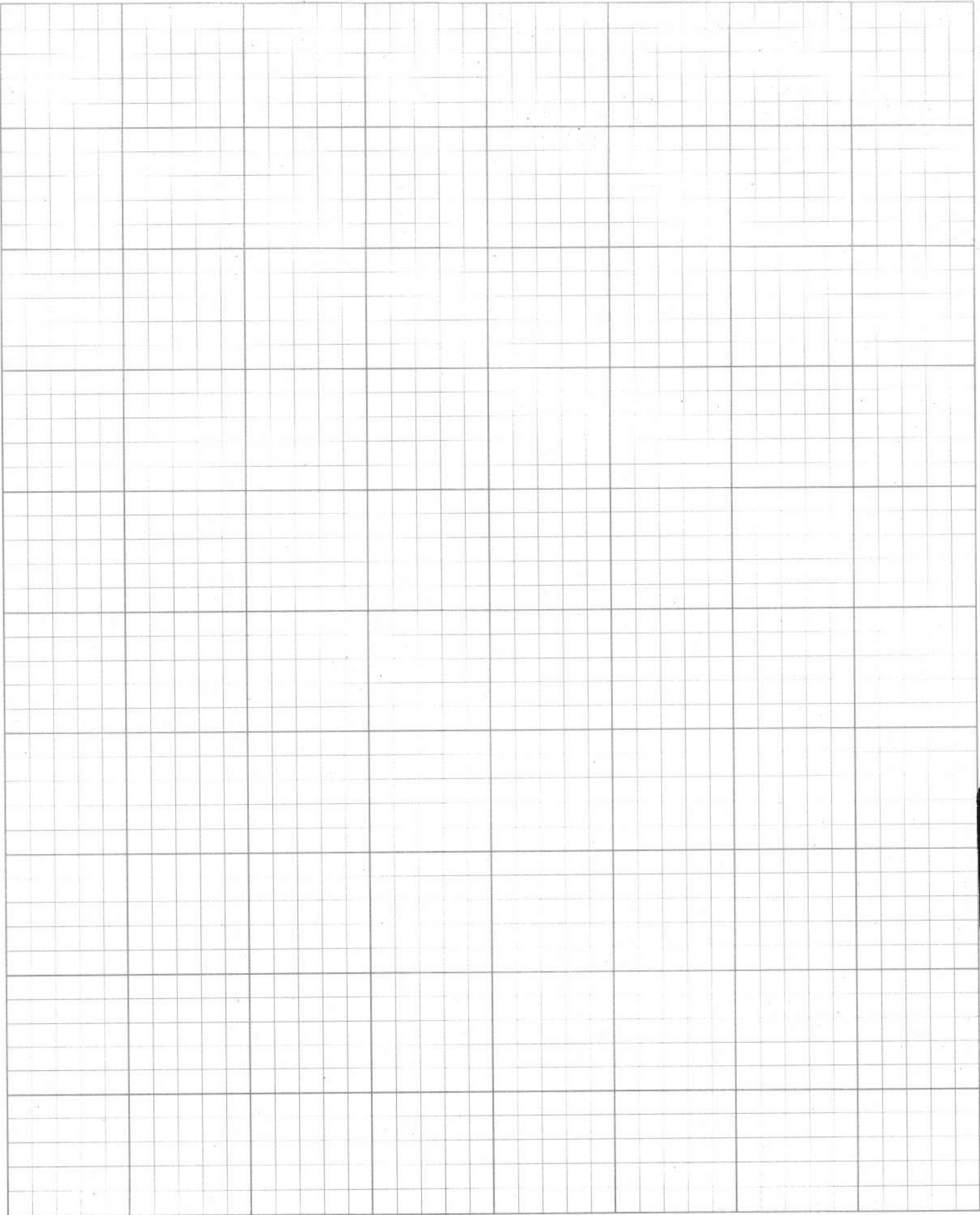
VEGETATION – Use scientific names of plants.

Sampling Point: T2W

Tree Stratum (Plot size: <u>50'Ø</u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: <u>Not used</u> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>5/5 100</u> (A/B)
1.	<u>Acer negundo</u>	<u>100</u>	<u>Y</u>	<u>Fac</u>	
2.	<u>Rhamnus Frangula</u>		<u>N</u>		
3.					
4.					
5.					
6.					
7.					
		<u>100</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>20 Ø</u>)					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1.	<u>Acer negundo</u>	<u>70</u>		<u>Fac</u>	
2.	<u>Rhamnus Frangula</u>	<u>30</u>		<u>Fac</u>	
3.					
4.					
5.					
6.					
7.					
		<u>100</u> = Total Cover			
Herb Stratum (Plot size: <u>20 Ø</u>)					Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Rubus idaeus</u>	<u>10</u>	<u>N</u>	<u>Fac</u>	
2.	<u>Oxyclea sensibilis</u>	<u>20</u>	<u>Y</u>	<u>Facw</u>	
3.	<u>Moss (wet not identified)</u>	<u>30</u>	<u>Y</u>		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
		<u>30</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>50 Ø</u>)					Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1.	<u>Vitis riparia</u>	<u>30</u>		<u>Fac</u>	
2.					
3.					
4.					
		<u>30</u> = Total Cover			
					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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





Scale: 1 square = _____



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Woodstock Snow dump City/County: Windsor Sampling Date: T2 4P
 Applicant/Owner: Town of Woodstock State: _____ Sampling Point: 10-15-15
 Investigator(s): W. Bauman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Top of terrace Local relief (concave, convex, none): none Slope (%): _____
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>	
If yes, optional Wetland Site ID: _____		

Remarks: (Explain alternative procedures here or in a separate report.)
T2 4P - west of wetland - location of proposed relocated snow dump in buffer.

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)	_____ Drainage Patterns (B10)
_____ High Water Table (A2)	_____ Moss Trim Lines (B16)
_____ Saturation (A3)	_____ Dry-Season Water Table (C2)
_____ Water Marks (B1)	_____ Crayfish Burrows (C8)
_____ Sediment Deposits (B2)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Drift Deposits (B3)	_____ Stunted or Stressed Plants (D1)
_____ Algal Mat or Crust (B4)	_____ Geomorphic Position (D2)
_____ Iron Deposits (B5)	_____ Shallow Aquitard (D3)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Microtopographic Relief (D4)
_____ Sparsely Vegetated Concave Surface (B8)	_____ FAC-Neutral Test (D5)
_____ Water-Stained Leaves (B9)	
_____ Aquatic Fauna (B13)	
_____ Marl Deposits (B15)	
_____ Hydrogen Sulfide Odor (C1)	
_____ Oxidized Rhizospheres on Living Roots (C3)	
_____ Presence of Reduced Iron (C4)	
_____ Recent Iron Reduction in Tilled Soils (C6)	
_____ Thin Muck Surface (C7)	
_____ Other (Explain in Remarks)	

Field Observations:		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Location is west of subject wetland beyond old farm homestead foundation.

VEGETATION – Use scientific names of plants.

Sampling Point: T244

Tree Stratum (Plot size: <u>50 φ</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer negundo</u>	<u>0</u>	<u>Y</u>	<u>FAC</u>
2. <u>Tilia Americana</u>	<u>50</u>	<u>N</u>	<u>FACU</u>
3. <u>Pinus Strobus</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. <u>Prunus Virginia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
3. <u>Prunus Pennsylvanica</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: _____ (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

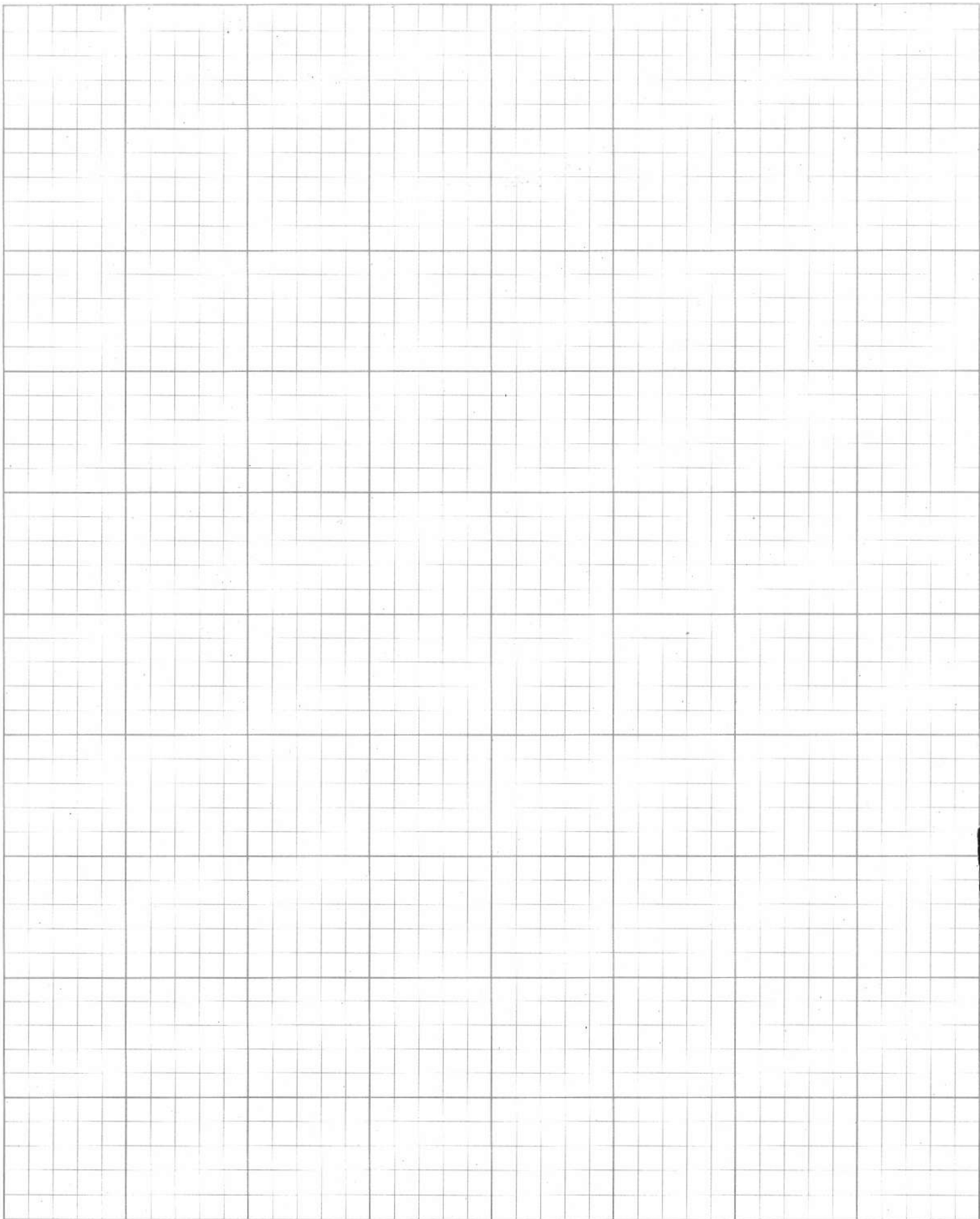
Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by:
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 _____ Dominance Test is >50%
 _____ Prevalence Index is ≤3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No

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



Scale: 1 square = _____



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Village of Woodstock Snow Dump City/County: Windsor Sampling Date: 7-15-15
 Applicant/Owner: Town of Woodstock State: _____ Sampling Point: T3W
 Investigator(s): Mark Baucom Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Rivine Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <u>Tree line surround within corn field. Terraced flood plain. Ag use.</u>	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required, check all that apply): <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required): <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>1-2</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>Surface</u> (includes capillary fringe)
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>obvious wetland.</u>		

VEGETATION – Use scientific names of plants.

Sampling Point: T3W

Tree Stratum (Plot size: <u>50</u> ϕ)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Tilia americana American Linden</u>	<u>60%</u>	<u>Y</u>		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
Sapling/Shrub Stratum (Plot size: <u>25</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Vitis riparia River grape</u>	<u>30</u>	<u>Y</u>			Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Fallopia japonica Japanese Knot</u>	<u>30</u>	<u>Y</u>			
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
_____ = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Typha latifolia broad cut tall</u>	<u>15</u>	<u>H</u>	<u>OBL</u>		Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. <u>Rhexia virginica</u>	<u>5</u>		<u>OBL</u>		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
_____ = Total Cover				Woody Vine Stratum (Plot size: <u>5</u>)	
Woody Vine Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Vitis riparia River grape</u>	<u>30</u>	<u>Y</u>			Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____					
3. _____					
4. _____					
_____ = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)					



See photo

Scale: 1 square = _____



WETLAND DETERMINATION DATA FORM -- Northcentral and Northeast Region

Project/Site: Village of Woodstock Sweeney City/County: Windsor Sampling Date: T3 UP
 Applicant/Owner: Town of Woodstock State: VT Sampling Point: _____
 Investigator(s): Mark Bannon Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 25
 Subregion (LRR or MLRA): _____ Lat _____ Long _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation Y Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology N 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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland?	Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>		

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

Corn field and edge along concave ravine

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)
_____ High Water Table (A2)	_____ Drainage Patterns (B10)
_____ Saturation (A3)	_____ Moss Trim Lines (B16)
_____ Water Marks (B1)	_____ Dry-Season Water Table (C2)
_____ Sediment Deposits (B2)	_____ Crayfish Burrows (C8)
_____ Drift Deposits (B3)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Algal Mat or Crust (B4)	_____ Stunted or Stressed Plants (D1)
_____ Iron Deposits (B5)	_____ Geomorphic Position (D2)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Shallow Aquitard (D3)
_____ Sparsely Vegetated Concave Surface (B8)	_____ Microtopographic Relief (D4)
_____ Aquatic Fauna (B13)	_____ FAC-Neutral Test (D5)
_____ Marl Deposits (B15)	
_____ Hydrogen Sulfide Odor (C1)	
_____ Oxidized Rhizospheres on Living Roots (C3)	
_____ Presence of Reduced Iron (C4)	
_____ Recent Iron Reduction in Tilled Soils (C6)	
_____ Thin Muck Surface (C7)	
_____ Other (Explain in Remarks)	

Field Observations:

Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

location is north of subject wetland in corn field.

VEGETATION - Use scientific names of plants.

Sampling Point: T3 up

Tree Stratum (Plot size: 50 ϕ)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Tilia americana</i>	20	Y	
2. <i>Acer negundo</i>			
3.			
4.			
5.			
6.			
7.			

Sapling/Shrub Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fallopia japonica japonica knot</i>	20	Y	
2.			
3.			
4.			
5.			
6.			
7.			

Herb Stratum (Plot size: 5)	Absolute % Cover	Dominant Species?	Indicator Status
1. Corn Ag planted			-
2. <i>Meadow Nutsedge Equisetum pratense</i>	5		FACW
3. <i>Muhlenbergia struthiopteris</i>	15		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

Woody Vine Stratum (Plot size: 5)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			

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

Corn planted as use - plants keyed were along corn field edge.

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is $\leq 3.0^1$

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

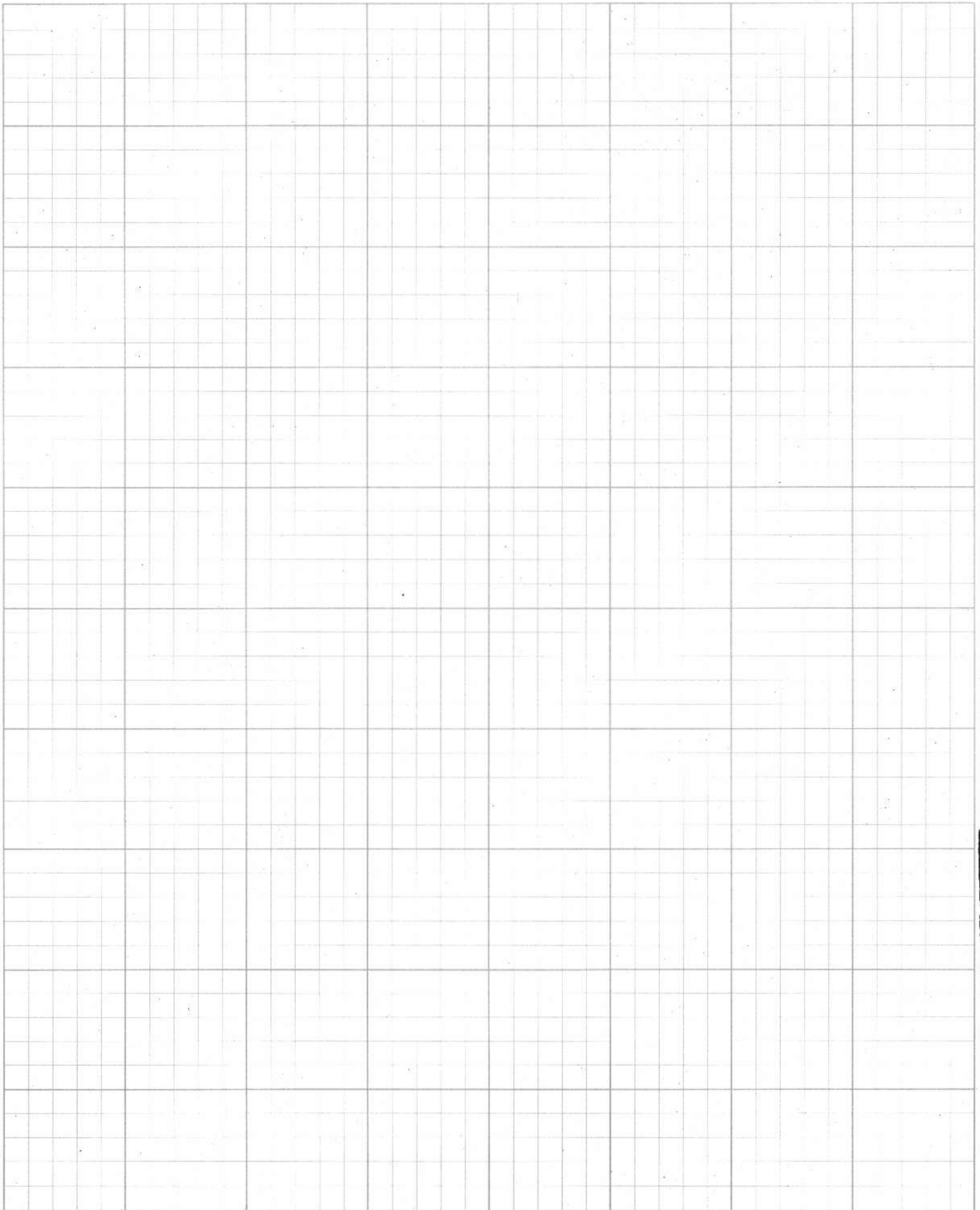
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No





Scale: 1 square = _____



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Depression along RT4/Driveaway

Project/Site: Woodstock Snow Pump City/County: Windsor Sampling Date: TI W
 Applicant/Owner: Town of Woodstock State: VT Sampling Point: 7-15-15
 Investigator(s): M. Bannon Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <5%
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N Soil N or Hydrology N 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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) <u>TI W = along RT4 & driveaway. Depression w/ drainage to east</u>	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one is required, check all that apply)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<p>Secondary Indicators (minimum of two required)</p> <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>16</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>Location is center of wetland adjacent to RT4 & Marham Meadow way.</u>		

VEGETATION – Use scientific names of plants.

Sampling Point: T1W

Tree Stratum (Plot size: <u>50 φ</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer Saccharum</u>	10	N	Facw
2. <u>Quercus Alba Bicolor</u>	10	N	Facw
3. <u>Betula lenta</u>	20		
4. <u>Fraxinus Pennsylvanica</u>	40	Y	Facw
5. _____			
6. _____			
7. _____			

Dominance Test worksheet: (Not used)

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 4/5 (A/B)

Sapling/Shrub Stratum (Plot size: <u>20 φ</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Suomykus Europaeus</u>	20	N	
2. <u>Quercus Bicolor</u>	20	N	Facw
3. <u>Betula lenta</u>	20		Facw
4. <u>Fraxinus Pennsylvanica</u>	20	Y	Facw
5. _____			
6. _____			
7. _____			

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Herb Stratum (Plot size: <u>10 φ</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Oxoclea sensibilis</u>	20	N	Fac
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0¹

___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

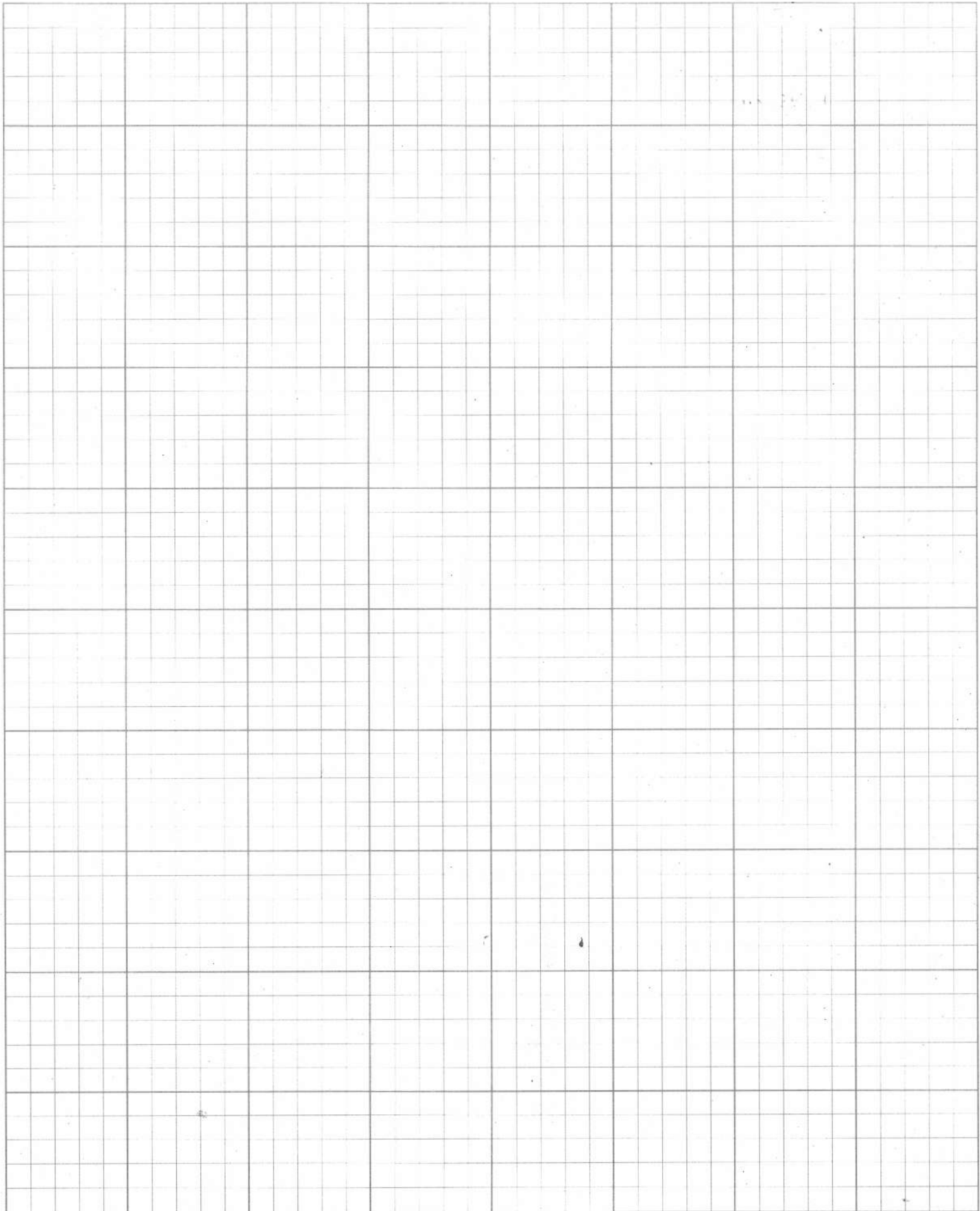
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Woody Vine Stratum (Plot size: <u>10 φ</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Lonicera dioica</u>	30	N	Fac
2. <u>Vitis Riparia</u>	10	N	Fac
3. _____			
4. _____			

Hydrophytic Vegetation Present? Yes No _____

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



Scale: 1 square = _____



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

near gate

Project/Site: Woodstock Snowdump City/County: Windsor Sampling Date: T/24P
 Applicant/Owner: Town of Woodstock State: VT Sampling Point: _____
 Investigator(s): W Bannan Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): < 5%
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: SB Windsor NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>		

Remarks: (Explain alternative procedures here or in a separate report.)
T/24P - left of access road into lower fields, 100-ft left of gate

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Mire Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): <u>NTD 24"</u>	
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Location is on top of embankment along access road north of gate.

VEGETATION – Use scientific names of plants.

Sampling Point: T 1/2 up

Tree Stratum (Plot size: <u>50'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Populus tremuloides</u>	<u>20</u>		<u>Facu</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. <u>Tilia Americana</u>			<u>Facu</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/5</u> (A/B)
4. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
5. _____				
6. _____				
7. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>Prunus Virgatanica</u>	<u>20</u>		<u>Facu</u>	
2. <u>Tilia Americana</u>	<u>20</u>		<u>Facu</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. <u>Toxicodendron radicans</u>	<u>10</u>		<u>F.c</u>	
2. _____				
3. _____				
4. _____				
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.) 				

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/2						LS	Well drained
4-12	2.5Y 4/2						LS	Loamy sand
12-18	5Y 4/2		NTD				LS	

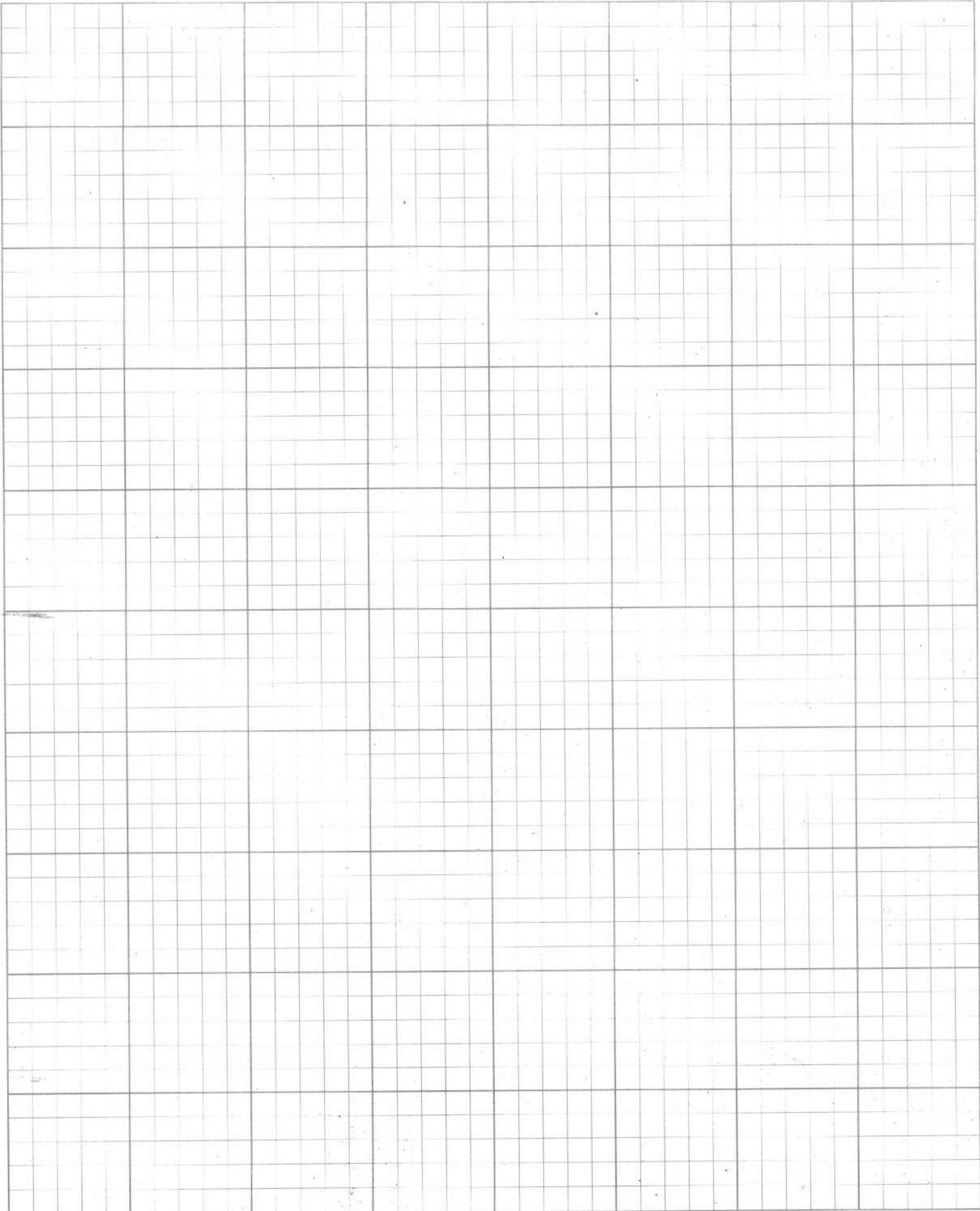
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	<input type="checkbox"/> Red Parent Material (TF2)
	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
	<input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): NTD
 Hydric Soil Present? Yes _____ No

Remarks:
 No redox. Non-expected given steep slope northerly.



Scale: 1 square = _____

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(253) 929-5000



