

**Vermont Wetlands Program**  
**General Permit Qualification Form**  
 Under Sections 9  
 of the Vermont Wetland Rules



VERMONT DEPARTMENT OF  
 ENVIRONMENTAL CONSERVATION  
**WATERSHED  
 MANAGEMENT DIVISION**  
 WETLANDS PROGRAM



<b>1. General Permit Eligibility Checklist:</b> <i>If you cannot verify all of the following, stop and proceed to the Individual Permit Application.</i>
<input checked="" type="checkbox"/> The activity does not qualify as an Allowed Use under Section 6 of the Vermont Wetland Rules. <input checked="" type="checkbox"/> The activity does not need additional conditions to protect functions and values. <input checked="" type="checkbox"/> All impacts have been avoided and minimized to the greatest extent possible. <input checked="" type="checkbox"/> The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat, or applicant has received a waiver letter from VT Fish and Wildlife. (attach waiver) <input checked="" type="checkbox"/> The activity is not located in or adjacent to a vernal pool, fen, or bog. <input checked="" type="checkbox"/> The wetland is not at or above 2,500' in elevation (headwaters wetland). <input checked="" type="checkbox"/> The project is not located in a Class I wetland or associated buffer zone. <input checked="" type="checkbox"/> The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules. <input checked="" type="checkbox"/> The activity is not associated with an activity which received a Wetland Permit.
<b>2. Project Type (as described in the General Permit)</b>
Non-Linear Project
<b>3. Wetland Type Proposed for Impact</b>
_____ Managed Area                      _____ Managed Area
<b>4. 50ft Wetland Buffer Proposed for Impact</b>
_____ Managed Area                      _____ Managed Area
<b>5. Activity Threshold based on the selections above, select the appropriate threshold. If the activity is greater than the thresholds below, stop and proceed to the Individual Permit Application. eg: Project type is non-linear, wetland and buffer type is managed and natural, and total impacts are 700 sqft → choose option (d) below.</b>
<input checked="" type="checkbox"/> (a) The total activity impacts proposed are <3,000 square feet of managed wetland or buffer <b>and</b> will not exceed 999 square feet of natural wetland or buffer <b>and</b> will not exceed 149 square feet of surface water margins.  <input type="checkbox"/> (b) The activity is associated with a linear project <b>and</b> total activity impacts proposed are <5,000 square feet of managed wetland or buffer <b>and</b> will not exceed 2,999 square feet of natural wetland or buffer <b>and</b> will not exceed 149 square feet of surface water margins.
<b>6. Section 8B Specific Activity Best Management Practices All permittees covered under the VT Wetland General Permit must implement best management practices (BMP) under section V. of the permit. Here, identify if the proposed activity must implement special BMPs in accordance with Section 8B</b>
<input type="checkbox"/> 8B(a) Placement, relocation, removal, or upgrade of overhead utility lines <input checked="" type="checkbox"/> 8B(b) Installation of underground facilities including utilities, dry hydrants, foundation drains, and wells <input type="checkbox"/> 8B(c) Activities in surface water body margins <input type="checkbox"/> None Apply

The Secretary may require a person applying for an authorization under a general permit to apply for an individual permit. VWR §9.8. Contact your District Ecologist to verify eligibility before submittal.

## Vermont Wetlands Program Permit Application Database Form

Under Sections 8 and 9  
of the Vermont Wetland Rules



<b>Application Submittal Instructions</b>	
<p>■ If submitting via US post, include a check in the correct fee amount made payable to the "State of Vermont," and a CD for applications that contain large files (1 MB or greater).</p> <p style="text-align: center;">Mail to: Vermont Wetlands Program Watershed Management Division One National Life Drive, Main 2 Montpelier, VT 05620-3522</p> <p>■ Applications can also be submitted via email to the following address: <a href="mailto:anr.wsmdwetlands@vermont.gov">anr.wsmdwetlands@vermont.gov</a></p> <p style="margin-left: 20px;">■ If submitting via email, please mail a check in the correct fee amount, made payable to the "State of Vermont," and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. <b>It is not necessary to mail in a copy of the complete application.</b></p>	

<b>Applicant Name:</b> Ira Vol Fire Dept. (Tim Perry)	<b>Application Preparer Name:</b> Troy Dare - Rural Fire Protection Manager
<b>Town where project is located:</b> Ira	<b>County:</b> Rutland
<b>Span#:</b> unknown	<b>Vermont Wetlands Project (VWP)# if Known:</b> 2015-336
<b>Project Location Description:</b> 1308 VT Route 4A - Blue Star Drive <i>911 street address or direction from nearest intersection</i>	
<b>Brief Project Summary:</b> Installation of Rural Fire Protection System (Dry Hydrant) in Castleton River	
<b>Application Type:</b> <input type="checkbox"/> Wetland Determination <input checked="" type="checkbox"/> General Permit Coverage Authorization <input type="checkbox"/> Permit Amendment: VWP Project # _____	
<b>Existing Land Use Type(s):</b> <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input type="checkbox"/> Undeveloped <input type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial	
<b>Proposed Land Use Type(s):</b> <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input type="checkbox"/> Undeveloped <input type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial	
<b>Proposed Impact Type(s):</b> <i>(Check all that apply)</i> <input type="checkbox"/> Buildings <input type="checkbox"/> Utilities <input type="checkbox"/> Parking <input type="checkbox"/> Septic/Well <input type="checkbox"/> Stormwater <input type="checkbox"/> Driveway <input type="checkbox"/> Park/Path <input type="checkbox"/> Agriculture <input type="checkbox"/> Pond <input type="checkbox"/> Lawn <input checked="" type="checkbox"/> Dry Hydrant <input type="checkbox"/> Beaver Dam Alteration <input type="checkbox"/> Silviculture <input type="checkbox"/> Road <input type="checkbox"/> Aesthetics <input type="checkbox"/> No Impact <input type="checkbox"/> Other: _____	
<b>Wetland and Buffer Impact Type:</b> <i>(Check all that apply)</i> <input type="checkbox"/> Dredge <input type="checkbox"/> Drain <input checked="" type="checkbox"/> Cut Vegetation <input type="checkbox"/> Stormwater <input checked="" type="checkbox"/> Trench/Fill <input type="checkbox"/> Other: _____	
<b>Wetland Delineation Date(s):</b> Part of VT Wetland Inv.	

Wetland Improvements	Buffer Zone Improvements	Reason for Improvements
Restoration: s.f.	Restoration: s.f.	<input type="checkbox"/> Correction of Violation
Creation: s.f.	Creation: s.f.	<input type="checkbox"/> To offset permit impacts
Enhancement: s.f.	Enhancement: s.f.	<input type="checkbox"/> Voluntary
Conservation: s.f.	Conservation: s.f.	

<b>Wetland Impact Fee Calculations: Round to the nearest square foot. Fees will auto-calculate.</b>			
Total Wetland Impact <i>(minus linear clear, including ATF)</i>	890 square feet (s.f.)	Wetland Impact Fee: (\$0.75/sf)	\$ 667.50
Total Wetland Clearing <i>(qualified linear projects only)</i>	square feet (s.f.)	Wetland Clearing Fee: (\$0.25/sf)	\$ 0.00
			\$ 0.00

<b>Total Buffer Zone Impacts and Calculations: Round to the nearest square foot</b>			
Total Buffer Zone Impact	square feet (s.f.)	Buffer Impact Fee: (\$0.25/sf)	\$ 0.00

<b>Additional Fees</b>			
	Agricultural Crop Conversion <i>Check here:</i> <input type="checkbox"/>	(Flat fee of \$200.00)	\$ 0.00
	Minimum Application Fee: (\$50.00)	Required when total impact fee is less than \$50.00	\$ 0.00
	Administrative Fee:		\$ 240.00

<b>Make Checks Payable to:</b> State of Vermont	<b>Total Check Amount:</b>	\$ 907.50
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**Application for Authorization Under  
the Vermont General Wetland Permit  
and Determination Petition**  
Under Sections 8 and 9  
of the Vermont Wetland Rules



<b>Applicant Information:</b> <i>If the applicant is someone other than the landowner, the landowner information must be included below</i>			
Applicant Name: Ira Volunteer Fire Department - Tim Perry, Fire Chief			
Address: 2659 RT 133	City/Town: Ira	State: VT	Zip: 05777
Phone Number:	Email Address: irafirechief@gmail.com		
<b>Applicant Certification:</b> By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Applicant Signature: 			Date: 10-20-16

<b>Landowner Information:</b> <i>Landowner must sign the application. If landowner is different from the applicant this section must be filled out</i>			
<input type="checkbox"/> Check this box if landowner is the same as the applicant			
Landowner Name: Mark Coderre			
Address: 1308 VT RT 4A - Blue Star Drive	City/Town: Ira	State: VT	Zip: 05777
Phone Number:	Email Address:		
Landowner Easement: <i>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. Describe the nature of the agreement or easement in the space provided below:</i>			
<b>Landowner Certification:</b> By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Landowner Signature: 			Date: 10/20/16

<b>Application Preparer Information:</b> <i>Consultant, engineer, or other representative that is responsible for filling out the application, if other than the applicant or landowner.</i>			
Application Preparer Name: Troy Dare, Rural Fire Protection Program Manager - Engineering Technician			
Address: 14 Crab Apple Ridge	City/Town: Randolph	State: VT	Zip: 05060
Phone Number: 802-828-4582	Email Address: dryhydrantguy@yahoo.com		
<b>Application Preparer Certification:</b> By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Application Preparer Signature: 			Date: 10/13/16

*Handwritten signatures are also accepted.*

<p><b>1. Location of wetland and project:</b> (Individual Permit Application [IPA] Section 1)                  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 features. <input type="checkbox"/></p>	
<p>Entrance to 1308 VT Route 4 - Blue Star Drive - Approx. DH connection point: 73°6'45.367"W 43°36'35.364"N</p>	
<p><b>2. Program Contact:</b> (IPA Section 2)                  Indicate here if you have been in contact with the Wetlands Program before the application submittal. <input type="checkbox"/></p>	
<p><b>2.1 Date of Interaction with State Wetland Ecologist</b></p>	<p><b>2.2. State Wetland Ecologist Name</b></p>
<p>March 8, 2016 - 1:16pm &amp; Sept. 1, 2016 via email</p>	<p>Zapata Courage (July 6, 2015 site visit with Julie F</p>
<p><b>3. Wetland Classification:</b> (IPA Section 3)</p>	
<p><b>3.1. The wetland is a class II wetland because:</b> (IPA Section 3.1) <input type="checkbox"/></p>	
<p>The wetland is mapped on the VSWI</p>	
<p><b>3.2. Section 4.6 Presumption</b> (IPA Section 3.2) <input type="checkbox"/>                  If the wetland meets the Section 4.6 Presumption, it does so because:</p>	
<p>&lt;Choose One&gt;</p>	
<p>&lt;Choose One&gt;</p>	
<p>&lt;Choose One&gt;</p>	
<p><b>4. Description of Entire Wetland:</b> (IPA Section 4)                  Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland area proposed for impact. Answers may be estimates based on desktop review when wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow.</p>	
<p><b>4.1. Size of Complex in Acres:</b> (IPA Section 4.1) <input type="checkbox"/>                  The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.</p>	
<p>complex is likely &gt;1,000 ac. associated with Castleton river</p>	
<p><b>4.2. Vegetation Cover Types Present:</b> (IPA Section 4.2) <input type="checkbox"/>                  List all wetland types in the entire wetland and their percent cover.  <b>For example:</b> 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland</p>	
<p>primarily scrub/shrub and emergent</p>	
<p><b>4.3. Pre-project Cumulative Impacts to the Wetland:</b> (IPA Section 4.7) <input type="checkbox"/>                  Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland.  <b>Examples include but are not limited to:</b> Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.</p>	
<p>agriculture, run off from Rt VT-4A, marble street commercial area, and utility line corridors.</p>	
<p><b>5. Context of Subject Wetland:</b> (IPA Section 5.1) <input type="checkbox"/>                  Describe where the subject wetland is in the context of the larger wetland or wetland complex described above.  <b>For example:</b> Upslope/downslope, narrow eastern "finger", 400 ft. from open water portion.</p>	
<p>South-western portion of overall complex where VT-4A bisects it and the Castleton river</p>	
<p><b>6. Subject Wetland Vegetation:</b> (IPA Section 5.3) <input type="checkbox"/>                  List dominant wetland vegetation cover type and associated dominant plant species. For example: emergent marsh with cattails; forested swamp dominated by red maple and yellow birch; shrub swamp dominated by speckled alder and peat moss; wet meadow dominated by reed canary grass.</p>	
<p>See attached pictures of all vegetation to be disturbed and/or cleared for project. primarily emergent including purple loosestrife, cardinal flower, golden road spp., jewelweed and carex spp. Willow trees also present and some aquatic vegetation within the river.</p>	

**7. Buffer Zone:** (IPA Section 5.6)  
 Describe the buffer zone of the subject wetland

**7.1 Buffer Land Use:** (IP Section 5.6.1)  
 For example: Mowed shoulder, forested, old field, paved road, and residential lawns, etc.  
 Describe any previous and ongoing disturbance in the buffer zone.

Rt VT-4A, agricultural fields and other driveways.

**8. Wetland Function Summary:** (IPA Section 6)  
 Check which functions are present in the wetland complex

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

**9. Overall Project Description:** (IPA Section 17)

**9.1. Overall Project Purpose:** (IPA Section 17.1)  
 Description of the basic project.  
 For example: six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.

Installation of Dry Hydrant for Rural Fire Protection water supply. Proposed Fire Apparatus Access point will be kept plowed in the winter and kept clear of surface overgrowth in the summer (weed clearing and mowing as necessary).

**10. Project Details:** (IPA Section 18)  
 Provide details regarding specific impacts to the wetland and buffer zone.

**10.1. Specific Impacts to Wetland and Buffer Zone Dimensions:** (IPA Section 18.1)  
 List portions of the project that will specifically impact the wetland or buffer zone and their dimensions.  
 For example: driveway crossing with 16' wide fill, installation of buried sewer force main with 5' trench including fill footprint.

60' long trench, max 4' deep, from private drive through wetland soils and veg. to open water stream.

**10.2. Bridges and Culverts:** (IPA Section 18.2)  
 Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.

All project disturbance of this project is within 100' (up-stream) of existing bridge abutment; exempt from VT-ANR Stream Alteration Permit.

**11. Wetland and Buffer Zone Impacts: (IPA Section 19)**

**11.1. Wetland Impacts: (IPA Section 19.1)**

Summarize the square footage of impact in the appropriate category. Round to nearest square foot

Permanent Wetland Fill	180	s.f.
Temporary Wetland Impact	360	s.f.
Other Permanent Wetland Impact <i>(this number includes clearing of woody vegetation, dredging, and does not include fill)</i>	350	s.f.
Total Wetland Impact:	890	s.f.

Describe in detail the proposed impact to wetlands

**For example:** Fill for road crossing, temporary impacts for trench and fill related to utility installation.

Temporary clearing and trenching, permanent fill to bed DH, permanent vegetation maintenance at connection point of DH.

**11.2. Buffer Zone Impacts: (IPA Section 19.2)**

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact		s.f.
Permanent Buffer Impact		s.f.
Total Buffer Impact:	0	s.f.

Describe in detail the proposed impact to buffer zones

**For example:** Addition of fill along roadway embankment extending into buffer zone.

N/A

**11.3. Cumulative Impacts: (IPA Section 19.3)**

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland.

**For example:** Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.

Vegetation Management, periodic water circulation for DH flow test and maintenance, and periodic water withdrawal for rural fire protection.

<p><b>12. Mitigation Sequence: (IPA Section 20)</b>  <i>Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.</i></p>	
<p><b>12.1. Avoidance of Wetland Impacts: (IPA Section 20.1)</b></p>	
<p><b>12.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.</b></p>	<input type="checkbox"/>
<p>No, this location offers the only access to adequate, open water, depth for RFP flow rates and volume.</p>	
<p><b>12.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.</b></p>	<input type="checkbox"/>
<p>No, this location offers the only access to adequate, open water, depth for Rural Fire Protection flow volume and flow rates.</p>	
<p><b>12.2. Avoidance to the Impact to Functions and Values: (IPA Section 20.2)</b></p>	
<p><b>12.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions?</b></p>	<input type="checkbox"/>
<p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p>	
<p><b>12.2.2. What design alternatives were examined to avoid impacts to wetland function? For example: Use of matting, relocation of footprint, etc.</b></p>	<input type="checkbox"/>
<p>Other sites were examined; however a dry hydrant needs to be installed in water that is deep enough. This location provided the shortest access and disturbance to the wetland complex.</p>	
<p><b>12.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.</b></p>	<input type="checkbox"/>
<p>The access to the dry hydrant is as small as it can be constructed. Erosion and sediment controls shall be put in place. Only emergent vegetation shall be removed; leaving all woody vegetation to minimize erosion of the stream bank.</p>	
<p><b>12.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.</b></p>	<input type="checkbox"/>
<p>Other sites did not have easy access for fire trucks. Other sites did not have deep enough water year-round to support a dry hydrant.</p>	

**13. Wetland Determination:** (IP Section 21)  
 If the application involves a wetland determination please answer the following.

Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map  
 Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map

**13.1. Reason for Petition:** (IP Section 21.1)  
 Please choose one from the dropdown menu.

<Choose One>

**13.3. Determination Narrative:** (IP Section 21.2)   
 Please provide any narrative to support the petition for a wetland determination here, including previous decisions by the Secretary or Water Board. Determinations are made based on an evaluation of the functions and values present. Here add narrative description on the functions listed in section 8 of this application and described in section 5 of the Vermont Wetland Rules. **For example:** Wetland provides water storage and surface water protection because it is large in size, concave, and naturally vegetated.

**14. Supporting Materials:** (IP Section 22)

**\*\*ADDITIONAL MATERIALS REQUIRED TO CALL APPLICATION COMPLETE**

**14.1. \*\*Location Map:** (IP Section 22.1)  
 Provide a location map that is 8 1/2" x 11" and separate from any site plans. The Vermont Natural Resources Atlas is appropriate using USGS topography map base layer, roads, and VSWI wetlands.

Date	Title
Sept 2016	1-Ira2015RFP-New-Permit-Map.pdf
Sept 2016	3-Ira2015RFP-New-Limits of Disturbance-Map.pdf

**14.2. \*\*Site Plan(s):** (IP Section 22.2)   
 Please list by date, date of last revision, author, and title. Plans must include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes, and any permanent memorialization.

Title	Author	Date	Last Revision Date
Ira2014RFP-New-Design(11x17).pdf	Troy Dare	9/9/14	

Other Supporting Documents:  
 VT Fish & Wildlife Waiver from Mark Fergusson for RTE  
 Permit letter from the Town of Castleton

**14.3. Other Supporting Documents:** (IP Section 22.5)   
 Provide any other documentation that supports the application. **Examples include but are not limited to:** Photographs, easements, agreements, restoration/plan, GIS shapefiles, additional ACOE forms.

Date	Last Revision	Author	Title
7/21/15		John Broker-Campbell	Ira-DH-Flood_Plane_Check-John_Broker-Campbell-Email.pdf
8/5/14		Troy Dare	Ira2014RFP-New-Assessment.pdf
7/29/14		Fire Department & Landowner	Ira2014RFP-New-LOAgreement.pdf

# Rural Water Supply (RWS) Site Assessment Form

(Revised 5/9/14)

Date: 8/5/14 Town: IRA County: RUT Fire Department: IRA  
Site Name: OPEN ROAD DRIVE - ROUTE 4A Site ID Number: IRA-001-0101  
Approx. Access/Standpipe Location: VT 4AE Long: 73°10'45" W Lat: 42°36'35" N  
Property Owner/Address: MARIA GODFREY  
Largest Fire Load/Flow within 1000ft: LES HOMES 1.5mi radius: LES HOMES  
Site Assessment Completed by: TROY DUBE Project: 2014 RFP GRANT PROGRAM  
Needed Fire Flow (if known): 1000 gpm Existing RWS Repair  Out of service Date: \_\_\_\_\_  
Town/FD Agreements Needed (if applicable): Landowner  Grant  Other

**Water Source:** CASTLETON Lake Pond Wetland River Stream Brook  
Recommended System: Dry Hydrant Basin Pressure (Wet) Drafting  
Type of Recharge: stream seep spring groundwater river  
Rate of Recharge: Poor Fair Good Excellent  
Site Accessibility: Asphalt Dirt Parking Area Driveway Other: STATE ROAD  
Depth (if known): Minimum: 2 ft Maximum: 4 ft  
State Fish & Wildlife Access  **NOTE:** RWS Technician must be present for all F&W installations.

Lift @ NWL: 7.8 ft Horizontal Distance: 70-80 ft Elevation (approx.): 300 ft  
Connection Information: Hose: 4.5" 5" 6" Thread Size: 4.5" 5" 6" » Male Female Storz  
Estimated Flow Rate of System (from New Hydrant Flow Spreadsheet): 1045 gpm

### Water Source Information & Calculations for fire purposes (estimate):

Volume (static water bodies) = Surface Area x intake depth x 7.48gal/cf x (2/3)  
Surface Area: \_\_\_\_\_ ft x \_\_\_\_\_ ft = \_\_\_\_\_ sf (From GIS Software)  
Volume: Area \_\_\_\_\_ sf x (Intake depth \_\_\_\_\_ ft - 2ft) x 7.5gcf x (0.67) ≈ \_\_\_\_\_ gal  
Volume in Winter months ≈ \_\_\_\_\_ gal

Note: Thickness of ice must be deducted from the intake depth value for winter months volume. If not known at time of survey use 2ft.

Flow (flowing water bodies)(at time of survey) = Q = Area x Velocity (attach survey and  
Cross sectional Area (35)(2) sf x Velocity 2 f/s x (60sec/min) x (7.5gal/cf) = 3,150 gpm

Permitting/Signoff Needed: Permitting Applications and Contact Information: [www.vtwaterquality.org](http://www.vtwaterquality.org)  
Stream Alteration/ Water Quality (State) Lakes and Ponds (State) Wetlands (State) Army Corps (Federal)  
Cultural Resources (Federal) F&W Access (State)

Integrity: Dist  Intact  Unknown  Landform Slope: ≈ 0.20

Date Cultural Resources Review Completed (if applicable): \_\_\_\_\_

Notes: TRUCKS WITHIN 10' OF ACCESS

Field Notes: TROY DUBE@COMNOC.COM

Field Sketch:

*(Faint handwritten sketch or notes)*

**Developed Water Supply for Rural Fire Protection  
Landowner Agreement**

To: Ted Sheloski  
IRA Vol. Fire Dept Date: 5/1/14  
(Town or Fire Department Representative)

Town of: IRA VT

Fire Department: IRA Vol Fire Dept.

From: Mark Codene  
(Property Owner or Manager)

I hereby authorize the Town of IRA, Vol. Fire Dept (hereinafter referred to as Town) to develop a refill site at (address) Blue star Drive for the purpose of providing water to extinguish fires in my community and for other uses with my permission.

I further give the Town permission to erect a dry hydrant or other developed rural water supply system at this location. I understand that the Town will install the rural water supply system and provide materials.

The Town will complete all excavation work so that the surrounding areas and the surface of the ground will be smooth, and present a pleasing appearance. Vegetation will be reestablished.

The Town may use, test, and maintain the dry hydrant or other rural water supply system at any time they deem necessary for continuity of hydrant operations.

All facets of the purpose, installation, operation and maintenance of the dry hydrant or other rural water supply have been explained to me. I fully understand and agree with the explanations provided.

*NOTE: The role and/or duties of the Town and Landowner in this agreement may be reversed or split between the parties as necessary. A sub-agreement shall be drafted if necessary.*

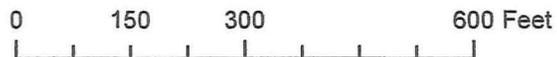
Mark Codene  
Signature of Land Owner or Property Manager

7-29-14  
Date

I have fully advised the landowner of the purpose, installation, operation and maintenance of the dry hydrant or other rural water supply system.

[Signature]  
Signature of Town or Fire Department Representative

7/25/14  
Date

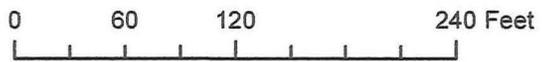


Ira 2015 New  
73°6'44.643"W 43°36'34.926"N  
(Wetland Delineation VT-ANR Data-layer)



Class II Wetland

# Unique Wetland FID



Ira 2915 New  
 73°6'44.643"W 43°36'34.926"N  
 (Limits of Disturbance & Clearing)

**Subject:** RE: Potential Dry Hydrant in a Wet area in Ira  
**From:** Broker-Campbell, John (John.Broker-Campbell@state.vt.us)  
**To:** dryhydrantguy@yahoo.com;  
**Date:** Tuesday, July 21, 2015 3:39 PM

*Flood Plain  
Check*

Hi Troy

Thank you for sending this application materials along; the map and supporting material are very helpful in showing the exact location of the proposed dry hydrant. Having reviewed the submitted materials, I do not believe there is a need for a State Flood Hazard and River Corridor permit since this is a local zoning / floodplain issue.

Technically, the applicant should submit an application to the town for a permit.

Thanks and let me know if you have any additional questions.

John Broker-Campbell, CFM

Regional Floodplain Manager

Department of Environmental Conservation

Watershed Management Division; Rivers Program

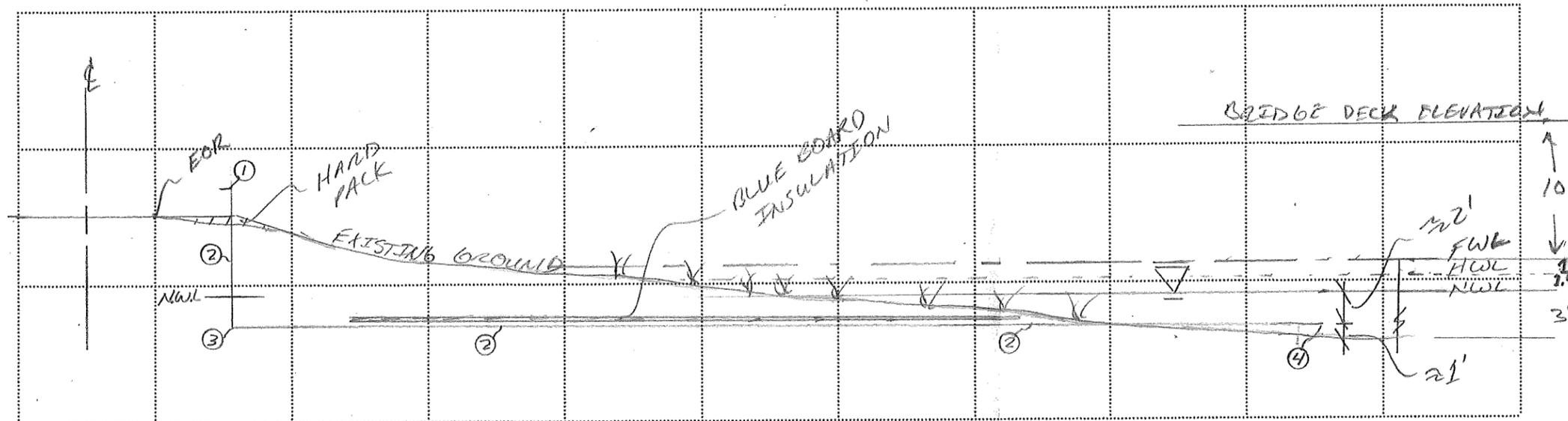
[www.anr.state.vt.us/dec/dec.htm](http://www.anr.state.vt.us/dec/dec.htm)

430 Asa Bloomer State Office Building

88 Merchants Row, Rutland, VT 05701

802/490-6196

**From:** Troy Dare [mailto:dryhydrantguy@yahoo.com]  
**Sent:** Monday, July 20, 2015 2:19 PM  
**To:** Broker-Campbell, John <John.Broker-Campbell@state.vt.us>



Scale: 1" = 10'

Dry hydrant installations on a river or stream should ALWAYS: 1) Make sure the construction work is clean & neat. 2) If needed only use clean stone fill. 3) All exposed soil shall be seeded and mulched immediately upon project completion. 4) While working in shallow streams use a hay bale or sand bag cofferdam system. 5) In-stream construction is generally limited to June 1st to October 1st (and maybe more restrictive in specific streams). 6) Permitting is required for any in-stream work. Municipalities shall apply for the appropriate permit by contacting the Vermont ANR River Management Stream Alteration Engineer in your area.

Design Flow (GPM): 1045

Approx. Water Volume: UNLIMITED

Summer: —

Winter: —

See Attached Location/GIS Map

**Bill Of Materials**

#	Description	No.	Unit	Unit Cost	Total
1	90° DRY HYDRANT HEAD	1	EA	250.00	250.00
2	6" SCH 80 PVC PIPE	100	LF	8.00	800.00
3	6" SCH 40 PVC 90° ELBOW	1	EA	40.00	40.00
4	TDS6- LOW LEVEL				
	"TEAR DROP" STRAINER	1	EA	400.00	400.00
	6" SCH PVC COUPLING	4	EA	40.00	160.00
	BLUE BOARD INSULATION				
	(2'x8' SHEET DOUBLE LAYER)	—	—	—	300.00
	LABOR	—	—	—	500.00
	Miscellaneous	—	—	—	500.00
	Excavation	8	HR	150.00	1200.00
	<b>Total</b>				<b>\$4150.00</b>

**Notes**

- This design does **NOT** certify your rural water supply site for a 2% (50 year return period) drought condition. For the Insurance Services Office to give credit for this water supply it must meet the Suction Supply requirements of the Fire Suppression Rating Schedule as to accessibility, availability, needed fire flow, duration, pumper capacity and distances. The 2% drought volume must be determined by a Vermont registered /licensed professional engineer, hydrologist, or similarly qualified person.

IRA	2014 RFP NEW
CASTLETON RIVER	
VERMONT RURAL FIRE PROTECTION TASK FORCE Vermont Association of Conservation Districts (VACD) Rural Fire Protection Program - Randolph, VT 05060	
Drawn by: TROY DARE	
Reviewed by:	
Date: 9/9/14 (REV. 9/4/10)	Sheet 1/5

**From:** Ferguson, Mark  
**Sent:** Friday, October 07, 2016 1:41 PM  
**To:** Troy Dare  
**Cc:** Courage, Zapata  
**Subject:** RE: Dry Hydrant- Ira project # 2015-336-Needs waiver

Hi Troy,

Thanks for meeting me at the Ira dry hydrant site on the Castleton River last week. I was able to get in the water and search for the presence of freshwater mussels and their habitat. My observations indicate that the habitat is poor and unlikely to support these species. No threatened or endangered mussels were observed or expected to be present in the area. I have no further concerns regarding impacts from the project on native mussels.

Zapata, let me know if you need anything more from me.

Mark Ferguson  
Natural Heritage Zoologist  
Vermont Department of Fish & Wildlife  
802-279-3422  
New email address: [mark.ferguson@vermont.gov](mailto:mark.ferguson@vermont.gov)

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**From:** Courage, Zapata  
**Sent:** Tuesday, September 06, 2016 2:08 PM  
**To:** Troy Dare <[dryhydrantguy@yahoo.com](mailto:dryhydrantguy@yahoo.com)>  
**Cc:** Woods, Laura <[Laura.Woods@vermont.gov](mailto:Laura.Woods@vermont.gov)>; Ferguson, Mark <[Mark.Ferguson@vermont.gov](mailto:Mark.Ferguson@vermont.gov)>  
**Subject:** RE: Dry Hydrant- Ira project # 2015-336-Needs waiver

Hi Troy,

Mark, I am copying you because Troy will need a waiver for his project. The overall complex contains RTE species, although the area in which his project (dry hydrant) is located (1308 VT Route 4A, Ira vt at the bridge crossing of the Castleton river) does not contain any RTEs.

Troy,  
I have reviewed the General Permit that you submitted to me before you finalize it and send it in to Laura at the addresses presented on Page 2 of the application form.

I have inserted yellow comment bubbles into the pdf document. If you click on each one it will open and tell you what needs to change, including the impact numbers on page 2 of the application which directly determines the impact fee made payable to the state (total cost will be 907.50 based on the calculations from your site plans and the impact table). Yes, the town is not exempt from impact fees.

You will need to get the waiver from F&W to include within your permit application packet. If you have any questions about my comments, shoot me an email.

Thanks,  
Zapata

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**From:** Troy Dare [<mailto:dryhydrantguy@yahoo.com>]  
**Sent:** Thursday, September 01, 2016 11:41 AM  
**To:** Courage, Zapata <[Zapata.Courage@vermont.gov](mailto:Zapata.Courage@vermont.gov)>  
**Subject:** Re: Potential Dry Hydrant in a Wet area in Ira

Zapata...I hope all is well...please see below and attached. I'm having attachment size issues with the pictures so I'm going to send them separately in another email momentarily. :)

We're still working on this project and hoping to jump on it by the end of Sept. :)

Does the Town/FD need to pay the \$597.50 calculated by the application (or however much it ultimately calcs to) or are they exempt in some way?

Here is the GP Application...MOSTLY...filled out with the maps, pics, design info etc..

I'm still on a learning curve with the permit application info so I wanted to send this over to you for a quick review, while I get the signature page filled in, so I can make any changes you recommend sooner than later.

I've attempted to fill in any potential gaps in the GP App in the map notes and pictures of the site showing the vegetation etc.

Please review the info as a whole and let me know if there anything else we need other than the signature page completed to submit the application.

Thank you very much for your help!

Troy Dare  
Manager & Engineering Technician  
Rural Fire Protection Program  
Vermont Rural Fire Protection Task Force  
Vermont Association of Conservation Districts (VACD)  
14 Crab Apple Ridge, Randolph, VT 05060  
Cell: (802) 828-4582  
[www.vacd.org](http://www.vacd.org)

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**From:** "Courage, Zapata" <[Zapata.Courage@vermont.gov](mailto:Zapata.Courage@vermont.gov)>  
**To:** Troy Dare <[dryhydrantguy@yahoo.com](mailto:dryhydrantguy@yahoo.com)>  
**Cc:** Tim Perry <[irafirechief@gmail.com](mailto:irafirechief@gmail.com)>; "Jensen, Scott" <[Scott.Jensen@vermont.gov](mailto:Scott.Jensen@vermont.gov)>; "Carvajal, Joshua" <[Joshua.Carvajal@vermont.gov](mailto:Joshua.Carvajal@vermont.gov)>  
**Sent:** Tuesday, March 8, 2016 1:16 PM  
**Subject:** RE: Potential Dry Hydrant in a Wet area in Ira

Hello Troy!

Assuming your plans haven't changed then we can pick up where it was left off. Julie indicated that a General Permit should be applied for. We do have a NEW general permit application and instructions, located on our webpage. It should be easier to use!

<http://www.watershedmanagement.vt.gov/wetlands/docs/VermontGeneralWetlandsPermitNOI2016.pdf>

You will still need to touch base with the new Floodplain Manager, Scott Jensen and Josh Carvajal regarding the in-stream work.

I am working out of the Rutland Office now. If you have any questions, let me know. Otherwise, complete the application and send it in with e appropriate fees to Laura woods and we will work through the process!

Cheers,  
Zapata

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**From:** Troy Dare [<mailto:dryhydrantguy@yahoo.com>]  
**Sent:** Tuesday, March 08, 2016 1:06 PM  
**To:** Courage, Zapata <[Zapata.Courage@vermont.gov](mailto:Zapata.Courage@vermont.gov)>  
**Cc:** Tim Perry <[irafirechief@gmail.com](mailto:irafirechief@gmail.com)>  
**Subject:** Re: Potential Dry Hydrant in a Wet area in Ira

Zapata...I hope all is well.

I'm circling back around to RFP projects that were extended from last year.

We'd still like to do the project. Can I/we pick up where we left off last year with the project in Ira (see below) or do we need to start over in some way? Please advise.

Thanks! :)

Troy Dare  
Manager & Engineering Technician  
Rural Fire Protection Program  
Vermont Rural Fire Protection Task Force  
Vermont Association of Conservation Districts (VACD)  
14 Crab Apple Ridge, Randolph, VT 05060  
Cell: (802) 828-4582  
[www.vacd.org](http://www.vacd.org)

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**From:** "Courage, Zapata" <[Zapata.Courage@state.vt.us](mailto:Zapata.Courage@state.vt.us)>  
**To:** "Foley, Julie" <[Julie.Foley@state.vt.us](mailto:Julie.Foley@state.vt.us)>; 'Troy Dare' <[dryhydrantguy@yahoo.com](mailto:dryhydrantguy@yahoo.com)>  
**Sent:** Monday, July 6, 2015 1:18 PM  
**Subject:** RE: Potential Dry Hydrant in a Wet area in Ira

Fantastic. Troy, Please reference project # 2015-336 in future communications. I have set up this project in the database and am saving all materials here. Julie, if you could update the database with your site visit info, that would be great.

Thanks,  
Zapata



**Zapata Courage**  
*District Wetland Ecologist*  
1 National Life Drive, Main 2  
Montpelier, VT 05620-3522  
802-490-6179 [zapata.courage@state.vt.us](mailto:zapata.courage@state.vt.us)  
[www.watershedmanagement.vt.gov](http://www.watershedmanagement.vt.gov)  
Check out our new and improved webpage! <http://www.vtwaterquality.org/wetlands.htm>

See what we're up to on our [Blog, Flow](#).

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**From:** Foley, Julie  
**Sent:** Monday, July 06, 2015 10:43 AM  
**To:** 'Troy Dare'  
**Cc:** Courage, Zapata; Broker-Campbell, John  
**Subject:** FW: Potential Dry Hydrant in a Wet area in Ira

Hi Troy,  
Thanks for reviewing the dry hydrant project in Ira with me this morning. Based on our conversation, the project will need a General Permit. If you have questions about the proposal as it is finalized or our permit process, please email Zapata and I for quickest service. I've also copied the Floodplain Manager for the area, John Broker-Campbell, as it appears that

the dry hydrant may fall under the Floodplain Program's review. Josh Carvajal should also be contacted regarding the instream work.

Regards,  
Julie

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**From:** Troy Dare [<mailto:dryhydrantguy@yahoo.com>]  
**Sent:** Monday, June 15, 2015 10:41 AM  
**To:** Foley, Julie  
**Cc:** Ted Sheloski; Tim Perry  
**Subject:** Fw: Potential Dry Hydrant in a Wet area in Ira

Good morning Julie. :)

I just wanted to follow up with this email I sent you in May...see below.

Thanks!

Troy Dare  
Manager & Engineering Technician  
Rural Fire Protection Program  
Vermont Association of Conservation Districts (VACD)  
14 Crab Apple Ridge, Randolph, VT 05060  
Cell: (802) 828-4582  
[www.vacd.org](http://www.vacd.org)

----- Forwarded Message -----

**From:** Troy Dare <[dryhydrantguy@yahoo.com](mailto:dryhydrantguy@yahoo.com)>  
**To:** Julie Foley <[julie.foley@state.vt.us](mailto:julie.foley@state.vt.us)>  
**Cc:** Tim Perry <[irafirechief@gmail.com](mailto:irafirechief@gmail.com)>  
**Sent:** Tuesday, May 12, 2015 2:06 PM  
**Subject:** Potential Dry Hydrant in a Wet area in Ira

Good afternoon Julie...I hope all is well.

The Town of Ira and the Ira VFD rec'd a grant last year for a DH and we didn't get going on it until really late in the season.

Anyway, we're wondering if we need to go through the GP process to install this DH as it's unclear whether this falls under River Management or Wetland (or both) jurisdiction. I've included all the current info on the spot...please see attached. There is a DH symbol across the street from where we're proposing the install, but there isn't one there...I've notified E911 of the error and it should be removed eventually; and if this proposed DH is installed a correct location symbol will be added to the state-wide data layer.

If you can't make the call with the info I've provided can you please coordinate a site visit with the Fire Chief, Ted Sheloski, email cc'd here, and his number is 802-345-0261.

Thanks!

Troy Dare, Manager  
Rural Fire Protection Program  
Engineering Technician, Dry Hydrant Grant Program  
Vermont Association of Conservation Districts (VACD)  
14 Crab Apple Ridge, Randolph, VT 05060  
Cell: (802) 828-4582  
[www.vacd.org](http://www.vacd.org)



## Town of Castleton

556 Main St., P.O. Box 727, Castleton, VT 05735

Connecting all  
Departments  
(802) 468-5319

Manager x-201

Secretary x-212

Tax Dept x-216

Accounting x-211

Town Clerk x-214

Health Officer x-215

Listing Office x-217

Zoning x-225

Police Chief x-219

Highway Dept.  
(802) 468-2459

Transfer Station  
(802) 468-3005

Wastewater Dept  
(802) 468-5315

Fax – All Depts.  
(802) 468-5482

September 26, 2016

To Whom It May Concern:

The Town of Castleton does not require a permit for the construction of the Dry Hydrant located at the town line of Castleton & Ira. This does not release the applicant from obtaining any other Vermont or Federal permits that may be required.

If you have any questions, please feel free to contact me.

Sincerely

A handwritten signature in green ink that reads "Jeffrey Biasuzzi".

Jeffrey Biasuzzi  
Zoning Administrator

Cc: Heath Goyette, Castleton Fire Chief  
Tim Perry, Ira Fire Chief