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

Applicant Name: Town of Fairfield, Attn: Amanda Forbes	**Representative Name: DuBois & King, Inc., Attn: Charlotte Brodie**
Town where project is located: Fairfield	**County: Franklin**

Project Location Description: The wetland is located along the northern edge of Pond Road, at the northeast corner of Fairfield Pond, and along the southern edge of Pond Road, west of and adjacent to the Town beach.
911 Street Address or direction from nearest intersection

Project Summary: Fairfield Pond Road will be re-aligned northward to allow for Town Beach parking on the southern side of the road. Some additional parking will be provided west of the beach in order to keep a reasonable amount of beach open for recreational use.

Permit Type Requested (check all that apply)
☐ Vermont General Permit Coverage ☐ Wetland Determination ☒ Vermont Wetland Permit

Impact Calculations: Total up proposed impacts from wetland tables listed below

Total Wetland Impact	666square feet (s.f.)	Total Buffer Zone Impact	6,846square feet (s.f.)
Total Wetland Clearing (qualified linear projects only)	0square feet (s.f.)	Total Buffer Zone Clearing (qualified linear projects only)	0square feet (s.f.)

Permit Fees: Make check payable to - *State of Vermont*

Wetland Impact Fee: ($0.75/sf)	$	Administrative Fee:	$120
Buffer Impact Fee: ($0.25/sf)	$	Total Check Amount:	$0.00
Clearing Fee: ($0.25/sf)	$		

Existing Land Use Type: (check all that apply)
☐ Forestry ☐ Residential (Subdivision) ☐ Industrial/ commercial
☐ Agriculture ☒ Transportation ☒ Parks/Rec/Trail ☐ Residential (Single Family) ☐ Institutional ☒ Undeveloped

Proposed Land Use Type: (check all that apply)
☐ Forestry ☐ Residential (Subdivision) ☐ Industrial/ commercial
☐ Agriculture ☒ Transportation ☒ Parks/Rec/Trail ☐ Residential (Single Family) ☐ Institutional ☐ No Change

Proposed Impact Type: (check all that apply)
☐ Buildings ☐ Utilities ☒ Parking ☐ Septic/Well ☐ Stormwater
☐ Driveway ☒ Road ☐ Parks/Path ☐ Agriculture ☐ Pond ☐ Lawn
☐ Dry Hydrant ☐ Beaver dam alteration ☐ Silviculture ☐ Aesthetics ☐ Other ☐ No Impact

Wetland 1: A (Label using Wetland ID from application if applicable, use supplemental sheets if more than one wetland is being impacted) Location:

Wetland Type: **PEM/PSS/PFO** WL Size Class : **1-5 acres**

Proposed Alterations

Wetland Alteration:		**Buffer Zone Alteration:**		**Wetland Alteration Type** (check all that apply)	
Wetland Fill:	576s.f.			☐Dredge	☐Drain
Temporary:	90s.f.	Temporary:	60 s.f	☐Cut Vegetation	☐Stormwater
Permanent: :	0s.f.	Permanent: :	6,786 s.f	☒Trench/Fill	☐Other

Mitigation

Avoidance and Minimization (s.f. of wetland NOT impacted): Wetland: 250,240s.f. Buffer Zone 93,154s.f.

Wetland Mitigation: (s.f. Gained)				**Buffer Zone Mitigation (s.f. Gained):**			
Restoration	0s.f.	Enhancement	0s.f.	Restoration	0 s.f.	Enhancement	0s.f

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	Town of Fairfield, Vermont; Attn: Amanda Forbes, Town Clerk	
1.2. Applicant Address	PO Box 5, Fairfield, VT 05455	
1.3. Applicant Phone Number	802-827-3261	
1.4. Applicant Email	amanda@fairfieldvermont.us	
1.5. Applicant Signature (original signature required)	By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. X Amanda Forbes Date: 6/30/15	
2. Representative	Consultant, engineer, or other representative that is responsible for filling out this application, if other than the applicant or landowner	
2.1. Representative Name	DuBois & King, Inc., Attn: Charlotte Brodie	
2.2. Representative Address	6 Green Tree Drive, South Burlington, VT 05403-6025	
2.3. Representative Phone Number	802-728-7202	
2.4. Applicant Email	cbrodie@dubois-king.com	
2.5. Representative Signature (original signature required)	By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. X Charlotte Brodie Date: 6/30/15	
3. Landowner	Landowner must sign the application. Use this space if landowner is different from the applicant	
3.1. Landowner Name	Same.	
3.2. Landowner Address		
3.3. Landowner Phone Number		
3.4. Landowner Email		
3.5. Landowner Easement	Attach copies of any easements, agreements or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit. List the attachment for this information in this section.	
3.6. Landowner Signature (original signature required)	By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. X_____ Date:	
4. Location of Wetland and Project	Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing geographic features. The wetland is located along the northern edge of Pond Road, at the northeast corner of Fairfield Pond, and along the southern edge of Pond	

	Road, west of and adjacent to the Town beach.		
5. Site Visit Date and Attendees	Date of visit with District Wetlands Ecologist	List people present for site visits including Ecologist, landowner, and representatives.	
	June 16, 2015	Danielle Owczarski, Amanda Forbes	
6. Wetland Classification	The wetland is a Class II wetland because (Choose one):		
	The wetland is mapped on the VSWI map		
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		
	Approximately 2.4 acres, including both sides of Pond Road.		
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		
	95% forest/scrub shrub, 5% emergent		
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.		
	The wetland is located along the shore of Fairfield Pond, and across Pond Road from the pond.		
7.4. Wetland Hydrology	Describe the main source of wetland hydrology for the wetland complex. List any river, streams, lakes and ponds.		
	Primarily groundwater discharge. Also, adjacent to a short tributary to Fairfield Pond. 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.		
	Stream flows south at western edge of northern wetland area and at eastern edge of southern wetland area.		
7.4.2. Influence of hydrology on wetland complex	For example: The river provides flood water to the wetland in the spring.		
	The stream may provide some flood water to the wetland in the spring, but the dominant influence on the hydrology of the wetland complex appears to be groundwater discharge and the high water table associated with the pond.		
7.4.3. Relation to the project area	Distance between the project area and any nearby surface waters.		
	Mapped stream is on the western edge of the mapped wetland north of Pond Road, and passes through the eastern edge of the wetland on the south side of Pond Road. The wetland on the north side of Pond Road is separated from Fairfield Pond by Pond Road and the Town Beach (approximately 65').		
7.4.4. Hydroperiod	Discuss frequency and duration of flooding, ponding, and/or soil saturation.		
	For the wetland north of the road, ponding appears to be prolonged in the emergent wetland area immediately north of the road. In addition, spring flooding of the tributary at the western edge of the wetland is likely to occur. Soil saturation appears to be very prolonged to almost continuous for much of the wetland. Saturation is prolonged in the wetland on the south side of Pond Road, and flooding from the pond may occur during high water periods.		
7.5. Surrounding Landuse of the Wetland Complex	For example: rural residential and forested; agricultural and undeveloped,		
	For the northern wetland area, there is forest land to the north, east and southeast, agricultural land to the west, and Pond Road to the south. For the southern wetland area, there is Pond Road to the north, the Town beach to the east, Fairfield Pond to the south, and a boat launch to the west.		
7.6. Relation to Other	Provide any information on wetlands or wetland complexes that are close		

Nearby Wetlands	enough to contribute to the overall function of the wetland in question. A 2.1-acre VSWI-mapped wetland occurs immediately west of the tributary at the west edge of the northern wetland area and across Pond Road from the southern wetland area.	
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. For the northern wetland area, an agricultural field exists to the west, and Pond Road exists to the south. Both appear to have existed for many years. For the southern wetland area, Pond Road exists on the northern edge, beach development exists on the eastern edge, and a boat launch exists on the western edge.	
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. On the north side of Pond Road, the subject wetland is at the southern extreme of the larger mapped wetland. On the south side of Pond Road, the wetland is situated between Pond Road and the pond, separated from the larger mapped wetland by the Road.	
8.2. Wetland Landuse	For example: mowed lawn; old field; naturally vegetated. Describe any previous and ongoing disturbance in the subject wetland. Both wetland areas are naturally vegetated. Pond Road apparently filled wetland when constructed many years ago.	
8.3. Wetland Vegetation	List dominant wetland community type and associated dominant plant species. The northern wetland area is primarily forested, and dominated by green ash, red maple, silky dogwood, red-osier dogwood, willow, meadowsweet, alder, sedges, jewelweed, royal fern and Canada bluejoint. The southern wetland area is primarily herbaceous, and is dominated by sedges, Joe-pye weed, reed canary grass, jewelweed, blueflags and sensitive fern, with lesser components of shrubby willow, silky dogwood and red maple.	
8.4. Wetland Soils	Use USDA NRCS information where possible and use the ACOE Delineation Manual soil description The northern area's soils are dark greyish brown silt loam with black redox features and high organic content over light grey silt loam. The southern wetland area's soils are very dark greyish brown sandy loams over dark greyish brown sandy loams with oxidation features at 5". See attached data sheets.	
8.5. Wetland Hydrology	Use descriptions from the ACOE Delineation Manual. A1, A2, 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. Mowed road shoulder, road, pond, beach, boat launch.	
8.6.2. Buffer vegetation	List community type and dominant plant species Herbaceous, mowed grasses, Canada goldenrod, groundnut.	
8.6.3. Buffer soils	Use USDA NRCS information where possible, and the ACOE Delineation Manual soil description Dark brown sandy loam (fill soil).	

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: Add a Section 4.6 presumed wetland to the VSWI map	
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:	
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.	
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. This project is a revision to a project previously permitted (file # 2013-122). The previously permitted parking lot in the buffer on the north side of Pond Road will not be built. Instead, Pond Road will be shifted northward to allow for parking on the south side of the new road alignmnent, partially within the old road bed and partially within currently existing Town beach. Some of the parking will also be provided in the wetland buffer and a small amount of wetland to the west of the beach. Based upon historic use of the beach, approximately 20 parking spaces are needed to meet the demand. The existing culvert at station 5+00 will be extended 10' on the south side to allow for foot traffic, and 10' on the northern side for traffic safety. At trench will be excavated to construct the culvert extensions, then backfilled to original contours. A temporary cofferdam will be constructed upstream of the culvert to allow diversion of water during construction.	
10.2. Project Purpose	For example: To construct a residential subdivision, upgrade existing road to improve access, extend a trail system The purpose of the project is to provide parking for the use of the Town Beach. The relocation of the parking to the southern side of the road is to create safer conditions, to protect beach users (especially children) from the hazards of crossing the road to access the beach. Also, the project is to control parking on the beach, to stop vehicles from driving on the beach, and to provide some buffer between the parking on the beach and the pond. Some parking will be created within buffer and a small amount of wetland on the southern side of the road so as to keep more of the beach open for recreational use. Providing all of the parking at the beach only would severely limit the use of the beach for recreation.	
10.3. Acres Owned by Applicant	Acreage of subject property. 2.5	
10.4. Acres Involved in the Project	Acreage of area involved in the project. 1.2	
11. Project Details	Provide details regarding specific impacts to the wetland and buffer zone	
11.1. Specific Impacts to Wetland and Buffer Zone	List portions of the project that will specifically impact the wetland or buffer zone. The shifting of the road northward will permanently impact 4,212 SF of wetland buffer on the north side of the road. The parking on the south side	

	of the road at the western end of the beach will impact 576 SF of wetland and 1,323 SF of buffer. The cofferdam for the culvert extension will temporarily impact 30 SF of wetland. The trenches for the construction of the culvert extensions will temporarily impact 60 SF of wetland and 60 SF of buffer.	
11.2. Dimension Details	Square footage of buildings, dimension of roads including fill footprint. The realignment of the road into the buffer to the north will occur over a distance of approximatley 435', and will vary from zero to 12' wide. The parking area on the southern side of the road west of the beach will be approximately 90' long and 25' wide. The parking area on the beach will be approximately 150' long and 20' wide. The cofferdam for culvert extension work will be 3' wide X 10' long/ 30 SF. The culvert extensions will require trench excavation, totalling 150 SF, 120 SF of which will be within wetland and 30 SF within the streambed.	
11.3. Bridges and Culverts	Culvert circumference, length, placement and shapes, or bridge details. The existing 18" diameter/40' long culvert will be extended 10' on either end to accommodate foot traffic to the beach on the southern side and to improve the safety of the roadway on the northern side.	
11.4. Construction Sequence	Describe any details pertaining to the worked planned in the wetland and buffer in terms of sequence or phasing that is relevant Combination snow/silt fence will be installed just outside of the limits of construction on the both sides of the road prior to commencement of construction. A 3' wide by 10' long cofferdam will be installed just upstream of the northern end of the culvert extension, and stream water will be piped to the downstream end of the southern culvert extension prior to construction of the culvert extensions. Trenches for culvert installation will be dug with 1H/2V slopes. Excavated material will be stockpiled within the roadway, not within wetland or buffer. Upon completion of the culvert extensions, the trenches for the culvert extensions will be backfilled to original grade. The cofferdam and the excess material from the trench construction will then be removed. That fill material will be disposed of at an upland location such that subsequent erosion and deposition of the material into waters of the State, including wetlands, will not occur. Disturbed ground within wetland will be seeded with a wetland seed mix and mulched immediately upon completion of construction. Disturbed ground within buffer will be seeded with an upland conservation seed mix and mulched immediately upon completion of construction. Accumulated deposits along the silt fence will be cleaned out as needed to keep the fence in good working order. The silt fence will be kept in place until such time as the seed has produced a turf capable of providing permanent erosion control, then removed.	
11.5. Stormwater Design	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. No stormwater permits are required. Placement of snow/silt fence at limits of construction, use of a cofferdam for culvert extension, and seeding and mulching of disturbed areas will be the methods used to prevent discharges to the wetland and buffer zone.	
11.6. Permanent Demarcation of Limits of Impact	Describe any plantings, fencing, signage, or other memorialization that provides permanent on-the-ground boundaries for the limits of disturbance for ongoing uses. No permanent demarcation of the limits of impact are proposed. However, permanent barriers will be provided on the downstream edges of the parking spaces.	

12. Wetland and Buffer Zone Impacts

12.1. Wetland Impacts

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.

Totals

Wetland Fill	576 s.f.
Temporary Wetland Impact	90 s.f.
Other Permanent Wetland Impact	0 s.f.

Describe in detail the proposed impact.

The trenches for the extension of the culvert will temporarily impact wetland. The cofferdam on the north side of the road will temporarily impact wetland. The parking spaces on the southern side of the road west of the beach will permanently impact wetland.

12.2. Buffer Zone Impacts

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.

Totals

Temporary Buffer Impact	60 s.f.
Permanent Buffer Impact	6,786 s.f.

Describe in detail the proposed impact.

The realignment of Pond Road northward and the parking spaces on the southern side of the road and west of the beach will impact buffer.

12.3. Cumulative Impacts

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland that could result from the proposed project.

No cumulative impacts are anticipated.

12.4. Avoidance and Minimization

Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.

12.4.1. Avoidance

Can the proposed activity be practicably located outside the wetland/buffer zone, or on another site owned or controlled by the applicant or reasonably available to satisfy the basic project purpose? If not, indicate why. This answer should include any examination of alternatives that you have explored including using other properties, requesting easements, and altering the project design.

Parking for beach use is limited by the extent of Town-owned land, and must occur adjacent to the beach. Therefore, the proposed activity cannot be located outside of the wetland/buffer zone.

12.4.2. Minimization

If the proposed activity cannot practicably be located outside the wetland/buffer zone, have all practicable measures have been taken to avoid adverse impacts on protected functions? Please include any information on on-site alternatives that have been examined; minimizing the size and scope of the project to avoid impacts; or relocating portions of the project to avoid impacts

Impacts to buffer on the northern side of the road have been reduced by the elimination of the previously-proposed parking lot.

Erosion control measures as described above will avoid adverse impacts to the surface and groundwater protection function. The snow fence will prevent unauthorized intrusion into wetland and buffer during construction.

	A concrete retaining wall of concrete block curbing will be constructed by laying the curbing on existing ground at the pondward side of the parking area west of the beach. This will prevent unauthorized intrusion of vehicles further into the wetland, and will create a barrier to prevent erosion and deposition into the remaining wetland. The parking area on the beach will have concrete curbs in front of each car space and cedar posts and ropes looped through in front of that to discourage foot traffic from the cars directly to the beach. Access to the beach will be eastward of the parking area.	
12.4.3. Mitigation	If avoidance of adverse effects on protected functions cannot be practically achieved, has the proposed activity has been planned to minimize adverse impacts on the protected functions and a plan has been developed for the prompt restoration of any adverse impacts on protected functions? Include any information on best management practices to be used for the project both for the initial construction and ongoing use. Also include any proposed restoration of temporary impacts, previously disturbed wetland or buffer zones or proposed conservation that are being used to offset the proposed impacts. The snow/silt fence and the permanent barriers on the downstream edges of the parking spaces will minimize adverse impacts on the protected functions. Disturbed wetland areas will be stabilized with a wetland seed mix and mulch, and disturbed buffer areas will be stabilized with an upland conservation seed mix and mulch.	
12.4.4. Compensation	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.	
	Because the amount of wetland impact is minimal (576 SF permanent and 90 SF temporary), because the amount of permanent buffer impact has remained almost unchanbed from the previous permitted amount (6,786 vs. the previous 6,394 SF), because the work is required to allow for public use of the beach while protecting the users (especially children) from the dangers of crossing the road to access the beach, because the project will end the uncontrolled access of vehicles to the beach with associated uncontrolled erosion and deposition into the pond, because temporarily impacted areas will be restored by returning them to original contours and by seeding and mulching, and because the impacts to significant functions are not unduly adverse, no compensation is proposed.	
13. Supporting materials	Where appropriate list the accompanying material by title, author, date and last revision date. Submit these documents and plans with the application.	
13.1. Location map	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.	
	See attached NRA map on topo base.	
13.2. Site Plans	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. Plan View, Sheets 1 and 2, JS Smith Techincal Services and Charlotte Brodie, last revised 06.30.15.	
13.3. ACOE Delineation Forms	List by author, location, and date. Required only for Individual Permits. Charlotte Brodie, Wetland Area B (south of road), 6/19/15.	
13.4. Other Supporting Documents	Provide any other documentation that supports the application. List photographs; easements; agreements; may include a GIS-compatible wetland submittal for determinations; etc. Photos and NRA map attached.	
13.5. List of Abutters (Neighbors with land	Attach list of names and mailing addresses or submit as word mailing document.	

adjoining wetland or buffer zone)	1) Damien Branon, 1097 North Road, Fairfield, VT 05455 2) Shane Bocash, 2366 Pond Road, Fairfield, VT 05455	
13.5.1. Newspaper Notification	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.** N/A, wetland boundary within area of two listed abuttors.	
14. Check Which Functions are Present in the Subject Wetland and in the Wetland Complex.	**Wetland Function Summary:** (if more than one wetland use supplemental wetland sheets)	

Functions & Values	Subject Wetland	Wetland Complex	Functions & Values	Subject Wetland	Wetland Complex
Flood/Storm Storage	☒	☒	RTE Species	☐	☐
Surface & Groundwater Protection	☒	☒	Education & Research	☐	☐
Fish Habitat	☐	☐	Recreation/ Economic	☐	☐
Wildlife Habitat	☒	☒	Open Space/ Aesthetics	☐	☐
Exemplary Natural Community	☐	☐	Erosion Control	☒	☒

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. If more than one wetland complex is involved, use the Supplemental Wetland Forms.	
16. Storage for Flood Water and Storm Runoff	☒ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☒ Constricted outlet or no outlet and an unconstricted inlet. ☒ Physical space for floodwater expansion and dense, persistent, emergent vegetation or dense woody vegetation that slows down flood waters or stormwater runoff during peak flows and facilitates water removal by evaporation and transpiration. ☒ If a stream is present, its course is sinuous and there is sufficient woody vegetation to intercept surface flows in the portion of the wetland that floods. ☐ Physical evidence of seasonal flooding or ponding such as water stained leaves, water marks on trees, drift rows, debris deposits, or standing water. ☐ Hydrologic or hydraulic study indicates wetland attenuates flooding. 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. ☐ Significant flood storage capacity upstream of the wetland, and the wetland in question provides this function at a negligible level in comparison to upstream storage (unless the upstream storage is temporary such as a beaver impoundment). ☐ Wetland is contiguous to a major lake or pond that provides storage benefits independently of the wetland.	

	☐ Wetland's storage capacity is created primarily by recent beaver dams or other temporary structures. ☐ 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. ☒ Check box if any of the following conditions apply that may indicate the wetland provides this function at a *higher* level. ☐ History of downstream flood damage to public or private property. ☒ Any of the following conditions present downstream of the wetland, but upstream of a major lake or pond, could be impacted by a loss or reduction of the water storage function. ☒ 1. Developed public or private property. ☒ 2. Stream banks susceptible to scouring and erosion. ☒ 3. Important habitat for aquatic life. ☒ The wetland is large in size and naturally vegetated. ☐ Any of the following conditions present upstream of the wetland may indicate a large volume of runoff may reach the wetland. ☐ 1. A large amount of impervious surface in urbanized areas. ☐ 2. Relatively impervious soils. ☐ 3. Steep slopes in the adjacent areas.	
16.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above For the northern area, significant groundwater discharge flows southerly, and is impeded by existing Pond Road, allowing for flood storage in the wetland. For the southern area, some floodwaters of the pond may rise up into the wetland.	
16.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. For the northern area, direct impacts to the wetland have been avoided, and impact to the buffer has been reduced by the change from a parking lot to a re-aligned roadway. For the southern area, impacts to the wetland are minimized. The majority of the impact is to the buffer, which is higher in elevation and less accessible to flooding.	
17. Surface and Ground Water Protection	☒ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☒ Constricted or no outlets. ☒ Low water velocity through dense, persistent vegetation. ☒ Hydroperiod permanently flooded or saturated. ☐ Wetlands in depositional environments with persistent vegetation wider than 20 feet.	

- ☐ Wetlands with persistent vegetation comprising a defined delta, island, bar or peninsula.
- ☐ Presence of seeps or springs.
- ☒ Wetland contains a high amount of microtopography that helps slow and filter surface water.
- ☐ Position in the landscape indicates the wetland is a headwaters area.
- ☒ Wetland is adjacent to surface waters.
- ☐ Wetland recharges a drinking water source.
- ☐ Water sampling indicates removal of pollutants or nutrients.
- ☐ Water sampling indicates retention of sediments or organic matter.
- ☒ Fine mineral soils and alkalinity not low.
- ☒ The wetland provides an obvious filter between surface water or ground water and land uses that may contribute point or nonpoint sources of sediments, toxic substances or nutrients to the wetland, such as: steep erodible slopes; row crops; dumps; areas of pesticide, herbicide or fertilizer application; feed lots; parking lots or heavily traveled road; and septic systems.

If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.

☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a *lower* level.

- ☐ Presence of dead forest or shrub areas in sufficient amounts to result in diminished nutrient uptake.
- ☐ Presence of ditches or channels that confine water and restrict contact of water with vegetation.
- ☐ Wetland is very small in size, not contiguous to a stream, and not part of a collection of small wetlands in the landscape that provide this function cumulatively.
- ☐ Current use in the wetland results in disturbance that compromises this function.

☒ Check box if any of the following conditions apply that may indicate the wetland provides this function at a *higher* level.

- ☐ The wetland is adjacent to a well head or source protection area, and provides ground water recharge.
- ☐ The wetland provides flows to Class A surface waters.
- ☐ The wetland contributes to the protection or improvement of water quality of any impaired waters.
- ☒ The wetland is large in size and naturally vegetated.

17.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above For the northern area, groundwater discharge moves slowly through dense vegetation and soils saturated for prolonged period. Wetland outlet is constricted. For the southern area, the vegetation provides opportunities for runoff and floodflows to be slowed and for sediments and toxicants to settle out.	
17.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. For the northern area, the project has been designed to avoid wetland impacts. Snow fence will prevent unauthorized intrusion into buffer and wetland, and silt fence will will be installed for control of erosion and sedimentation. For the southern area, the project will eliminate uncontrolled access of vehicles to the beach, with that associated erosion and deposition into the pond. Snow and silt fence will prevent unauthorized intrusion into buffer and wetland during construction. Permanent barriers on the pondward side of the parking spaces will check erosion and sedimentation post-construction.	
18. Fish Habitat	☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☒ Contains woody vegetation that overhangs the banks of a stream or river and provides any of the following: shading that controls summer water temperature; cover including refuges created by overhanging branches or undercut banks; source of terrestrial insects as fish food; or streambank stability. ☐ Provides spawning, nursery, feeding or cover habitat for fish (documented or professionally judged). Common habitat includes deep marsh and shallow marsh associates with lakes and streams, and seasonally flooded wetlands associated with streams and rivers. ☐ Documented or professionally judged spawning habitat for northern pike. ☐ Provides cold spring discharge that lowers the temperature of receiving waters and creates summer habitat for salmonoid species. ☐ The wetland is located along a tributary that does not support fish, but contributes to a larger body of water that does support fish. The tributary supports downstream fish by providing cooler water, and food sources.	
18.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above While there are some indication of significance, as checked above, the adjacent stream is only 1700' long, and the majority of the wetland does not appear to rise to the level of "significance" for fish habitat, in the opinion of the reviewer.	
18.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	

19. Wildlife Habitat	☒ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☐ Provides resting, feeding staging or roosting habitat to support waterfowl migration, and feeding habitat for wading birds. Good habitats for these species include open water wetlands. ☐ Habitat to support one or more breeding pairs or broods of waterfowl including all species of ducks, geese, and swans. Good habitats for these species include open water habitats adjacent shallow marsh, deep marsh, shrub wetland, forested wetland, or naturally vegetated buffer zone. ☐ Provides a nest site, a buffer for a nest site or feeding habitat for wading birds including but not limited to: great blue heron, black-crowned night heron, green-backed heron, cattle egret, or snowy egret. Good habitats for these species include open water or deep marsh adjacent to forested wetlands, or standing dead trees. ☐ Supports or has the habitat to support one or more breeding pairs of any migratory bird that requires wetland habitat for breeding, nesting, rearing of young, feeding, staging roosting, or migration, including: Virginia rail, common snipe, marsh wren, American bittern, northern water thrush, northern harrier, spruce grouse, Cerulean warbler, and common loon. ☐ Supports winter habitat for white-tailed deer. Good habitats for these species include softwood swamps. Evidence of use includes deer browsing, bark stripping, worn trails, or pellet piles. ☐ Provides important feeding habitat for black bear, bobcat, or moose based on an assessment of use. Good habitat for these types of species includes wetlands located in a forested mosaic. ☒ Has the habitat to support muskrat, otter or mink. Good habitats for these species include deep marshes, wetlands 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. ☐ The wetland complex is large in size and high in quality. ☐ The habitat has the potential to support several species based on the assessment above. ☐ Wetland is associated with an important wildlife corridor. ☐ The wetland has been identified as a locally important wildlife habitat by an ANR Wildlife Biologist.	
19.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above The wetland could help to support otter or mink, and possesses characteristics indicative of wildlife habitat diveristy.	
19.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. On the northern side of the road, the project has been designed to avoid direct impacts to wetland. The impacts are to buffer only, and are adjacent to an existing road where wildlife habitat is the least valuable. On the southern side of the road, the project impacts are mostly associated with mowed buffer adjacent to the road, where wildlife habitat is not significant. The amount of impact to vegetated wetland is minimized to the amount necessary for parking.	
20. Exemplary Wetland Natural Community	☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☐ Wetlands that are identified as high quality examples of	

	Vermont's natural community types recognized by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department, including rare types such as dwarf shrub bogs, rich fens, alpine peatlands, red maple-black gum swamps and the more common types including deep bulrush marshes, cattail marshes, northern white cedar swamps, spruce-fir-tamarack swamps, and red maple-black ash seepage swamps are automatically significant for this function. The wetland is also likely to be significant if any of the following conditions are met: ☐ Is an example of a wetland natural community type that has been identified and mapped by, or meets the ranking and mapping standards of, the Natural Heritage Information Project of the Vermont Fish and Wildlife Department. ☐ Contains ecological features that contribute to Vermont's natural heritage, including, but not limited to: ☐ Deep peat accumulation reflecting a long history of wetland formation; ☐ Forested wetlands displaying very old trees and other old growth characteristics; ☐ A wetland natural community that is at the edge of the normal range for that type; ☐ A wetland mosaic containing examples of several to many wetland community types; or ☐ A large wetland complex containing examples of several wetland community types. List species or communities of concern:	
20.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above The attached NRA shows no species or communities of concern in the vicinity of the project.	
20.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	
21. Rare, Threatened, and Endangered Species Habitat	☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☐ Wetlands that contain one or more species on the federal or state threatened or endangered lists, as well as species that are rare in Vermont, are automatically significant for this function. The wetland is also likely to be significant if any of the following apply: ☐ There is creditable documentation that the wetland provides important habitat for any species on the federal or state	

	threatened or endangered species lists; ☐ There is creditable documentation that threatened or endangered species have been present in past 10 years; ☐ There is creditable documentation that the wetland provides important habitat for any species listed as rare in Vermont (S1 or S2 ranks), state historic (SH rank), or rare to uncommon globally (G1, G2, or G3 ranks) by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department; ☐ There is creditable documentation that the wetland provides habitat for multiple uncommon species of plants or animals (S3 rank). List name of species and ranking: The attached NRA shows no rare, threatened or endangered species in the vicinity of the project.	
21.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above N/A	
21.2. Statement of no adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	
22. Education and Research in Natural Sciences	☐ Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function. ☐ Owned by or leased to a public entity dedicated to education or research. ☐ History of use for education or research. ☐ Has one or more characteristics making it valuable for education or research.	
22.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above N/A	
22.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	
23. Recreational Value and Economic Benefits	☐ Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function. ☐ Used for, or contributes to, recreational activities. ☐ Provides economic benefits. ☐ Provides important habitat for fish or wildlife which can be fished, hunted or trapped under applicable state law. ☐ Used for harvesting of wild foods.	

	Comments: The recreational value of the project area is associated with the non-wetland beach.	
23.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above N/A	
23.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	
24. Open Space and Aesthetics	☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☐ Can be readily observed by the public; and ☐ Possesses special or unique aesthetic qualities; or ☐ Has prominence as a distinct feature in the surrounding landscape; ☐ Has been identified as important open space in a municipal, regional or state plan. Comments:	
24.1. Subject Wetland	Please explain how the subject wetland contributes to the function listed above N/A	
24.2. Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. N/A	
25. Erosion Control through Binding and Stabilizing the Soil	☒ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function. ☒ Erosive forces such as wave or current energy are present and any of the following are present as well: ☒ Dense, persistent vegetation along a shoreline or stream bank that reduces an adjacent erosive force. ☐ Good interspersion of persistent emergent vegetation and water along course of water flow. ☒ Studies show that wetlands of similar size, vegetation type, and hydrology are important for erosion control. What type of erosive forces are present: ☒ Lake fetch and waves ☐ High current velocities: ☐ Water level influenced by upstream impoundment If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none	

	of the following apply, the wetland provides this function at a moderate level. ☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a *lower* level. ☐ The stream is artificially channelized and/or lacks vegetation that contributes to controlling the erosive force. ☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a *higher* level. ☐ The stream contains high sinuosity. ☐ Has been identified through fluvial geomorphic assessment to be important in maintaining the natural condition of the stream or river corridor.	
25.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above For the northern wetland area, the stream forming the western boundary of the wetland is mapped as only 1700' long. The topography is quite flat, and the stream is not likely to have high current velocities. Therefore, this area does not appear to rise to the level of significance for this function. For the southern wetland area, the vegetation along the shoreline provides erosion control through binding and stabilizing the soil.	
25.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue adverse impact to this function. Include any avoidance and minimization measures relevant to this function. The impacts to wetland have been minimized. Snow and silt fence will be installed prior to commencement of construction to prevent erosion and sedimentation during construction. A concrete block retaining wall will be placed at the pondward edge of the parking spaces to prevent erosion and sedimentation post-construction.	

Creation	0s.f.	Conservation	0s.f..	Creation	0s.f	Conservation	0s.f
Reason for Mitigation:		☐ Correction of Violation		☐ Mitigation to offset permit impacts		☐ Voluntary	

All Applications Should be Mailed To:

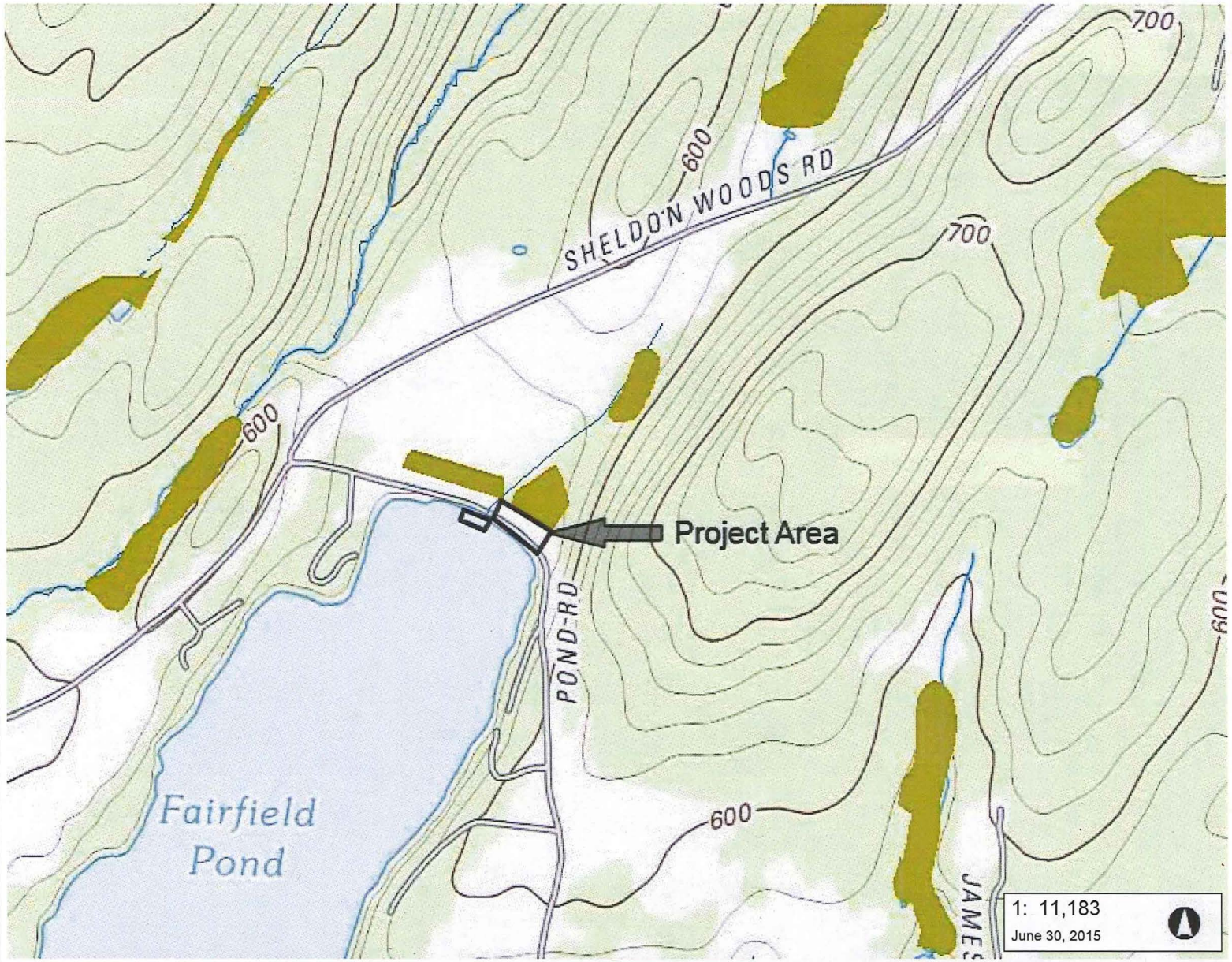
Vermont Wetlands Program
Watershed Management Division
One National Life Drive, Main 2
Montpelier, VT 05620-3522

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**

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Wetlands - VSWI

- Class 1 Wetland
- Class 2 Wetland

Stream

Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas; Location Map

568.0 0 284.00 568.0 Meters

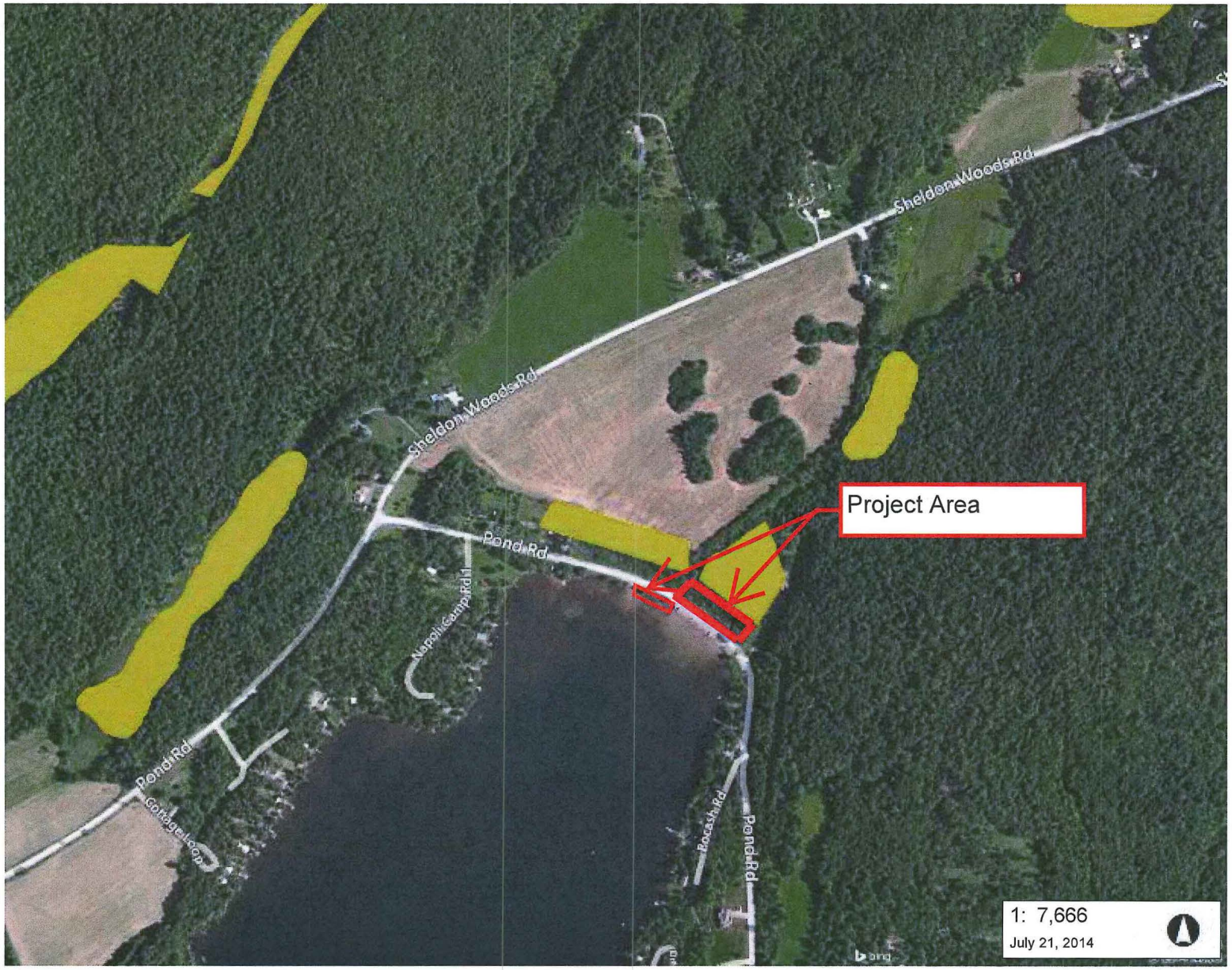
WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 932 Ft. 1cm = 112 Meters

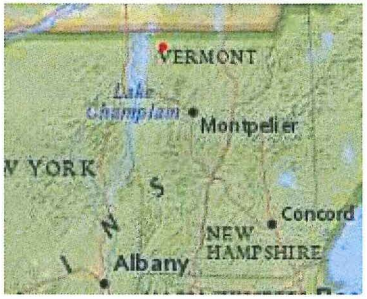
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov





LEGEND

Rare Threatened Endangered

- Threatened or Endangered
- Rare

Significant Natural Community

Uncommon Species and Other

- Animal
- Plant
- Natural Community

Deer Wintering Areas

Natural Communities

- Acidic Riverside Outcrop
- Alder Swamp
- Alluvial Shrub Swamp
- Alpine Meadow
- Alpine Peatland
- Beaver Wetland (Non-NC)
- Black Spruce Swamp
- Black Spruce Woodland Bog
- Boreal Acidic Cliff
- Boreal Calcareous Cliff
- Boreal Outcrop
- Boreal Talus Woodland
- Buttonbush Swamp
- Calcareous Red Maple-Tamarack S
- Calcareous Riverside Outcrop
- Calcareous Riverside Seep
- Cattail Marsh

NOTES

Map created using ANR's Natural Resources Atlas

389.0 0 194.00 389.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 639 Ft. 1cm = 77 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

MATCH TO SHEET 1

N

GPS N 44°-52'-04"
W 72°-58'-45"

18"x40' HDPE Culvert (Existing)

Proposed 22' wide Paved Roadway

3' Gravel shoulder

Wetlands

4,086 ft

Pole

IRON PIN

B/L 540

6+0

7+0

8+0

+50

WB

BEACH

1,251 ft

20' +/-

EXISTING ROADWAY

Additional Pavement Required

3' Paved shoulder

10' culvert extension
(Revision - 6/16/2015)

TYP.
Parking Space 10' X 20'
w/Precast Concrete Bumper

FAIRFIELD POND

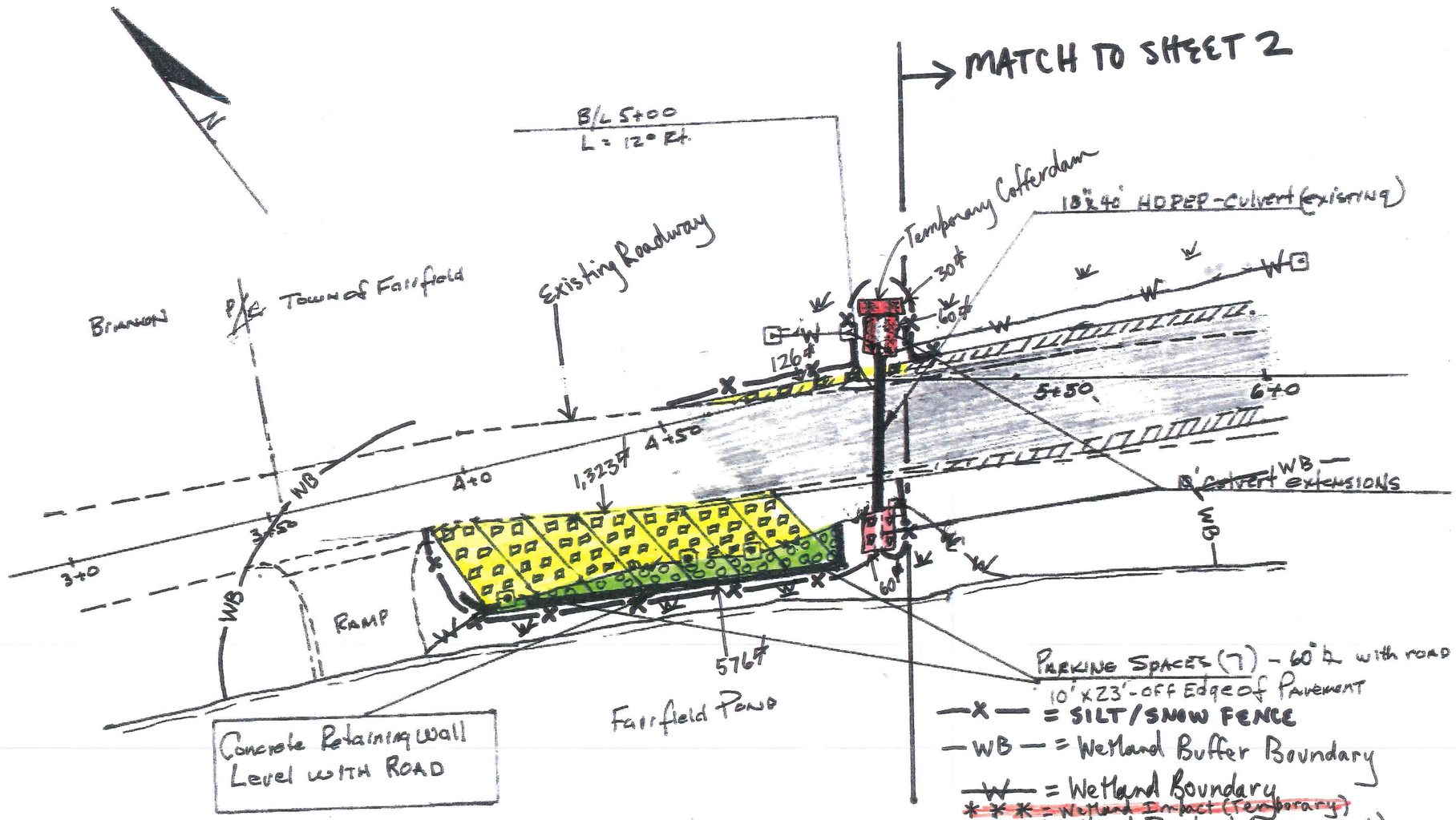
—W— = Wetland Boundary
—WB— = Buffer Boundary
□□□ = Buffer Impact (permanent)
—X— = SILT/SNOW FENCE

LEGEND

- - - - = Edge of Paved Road (Existing)
⊠ = Wetland Delineation Stake
⊙ = Property Line Marker
= Brush Line
= Utility Pole
= Edge of Water - 11-20-2013
= Wetland Boundry
Scale = 1" = 30'

= Relocated Road Paved Surface
= 3' Gravel Shoulder Lt. - Paved Shoulder Rt.
(Added - 6-2-2015)

TOWN OF FAIRFIELD Pond Rd. Fairfield Pond Proposed Parking Area Plan View					SHEET 2
Preliminary	X				
Final					6/30/15
		Relocation of Pond	Revisions		6/2/2015
Surveyed	11/20/2013	Parking S. Side of Rd.			6/15/2015
Plotted	11/21/2013	Culvert Extensions			6/16/2015
Checked	11/21/2013				
Scale = 1" = 30'		JS - Smith Technical Services			



LEGEND

- - - - = Edge of Paved Road (Existing)
⊠ = Wetland Delineation Stake
⊙ = Property Line Marker
= Brush Line
= Utility Pole
= Edge of Water - 11-20-2013
= Wetland Boundry
Scale = 1" = 30'

= Relocated Road Paved Surface
= 3' Gravel Shoulder Lt. - Paved Shoulder Rt.
(Added - 6-2-2015)

Page 1

TOWN OF FAIRFIELD
Pond Rd.
Fairfield Pond Proposed Parking Area
SHEET 1

Plan View

Preliminary	X				
Final					6/30/15
		Relocatin of Pond	Revision		6/2/2015
Surveyed	11/20/2013	Parking S. Side of	Rd.		6/3/2011
Plotted	11/21/2013	Culvert extensions			6/16/20
Checked	11/21/2013	ADDED VS 1			6/25/20
Scale = 1" = 30'		JS - Smith Technical Services			

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Fairfield Pond Road at Town Beach City/County: Fairfield Sampling Date: 06.19.15

Applicant/Owner: Town of Fairfield State: VT Sampling Point: B1

Investigator(s): Charlotte Brodie Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2 Lat: 44 52' 4" Long: 72 58' 47" Datum: _____

Soil Map Unit Name: _____ NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X	No _____	If yes, optional Wetland Site ID: Wetland Area B
Wetland Hydrology Present?	Yes X	No _____	

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

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ 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)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): _____
Water Table Present?	Yes X	No _____	Depth (inches): 8"
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): surface

Wetland Hydrology Present? Yes X No _____

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

Remarks:

SOIL

Sampling Point: B1

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	100					sa l	
5-18	10YR 4/2	95	10YR 4/6	5	C	PL	sa l	

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

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B1

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15' r)			
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5'r)			
1. Carex cf crinita	38		OBL
2. Carex cf gynandra	38		OBL
3. Solidago canadensis	20		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	96 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (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
- X Dominance Test is >50%
- ___ Prevalence Index is ≤3.0[1]
- ___ 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.

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 X No ___

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

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Fairfield Pond Road at Town Beach City/County: Fairfield Sampling Date: 06.19.15

Applicant/Owner: Town of Fairfield State: VT Sampling Point: B2

Investigator(s): Charlotte Brodie Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2 Lat: 44 52' 4" Long: 72 58' 47" Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID: _____

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

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ 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)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

SOIL

Sampling Point: B2

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-1	10YR 3/2	100					L	
1-10	10YR 4/2	100					sa l	common gravels
10-18	10YR 4/2	98	10YR 4/6	2	C	PL	sa	

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

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B2

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15' r)			
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5'r)			
1. Poa compressa	83	x	FACU
2. Asclepias syriaca	10		UPL
3. Taraxacum officinale	10		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	103 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (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 ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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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 X

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

Project #123010P Fairfield Pond Road

Wetland and Buffer, South Side

Culvert Outlet, South Side

Culvert Inlet and Wetland, North Side