

**Reclassification Information and Petition Form
(per 10 V.S.A. § 1253)
Classification of waters designated, reclassification**



Shadow Lake Reclassification Petition



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Petition Form Submittal Instructions			
<ul style="list-style-type: none"> ● If submitting via US post: <p style="text-align: center;">Mail to: Lakes and Ponds Program Watershed Management Division One National Life Drive, Davis 3 Montpelier, VT 05620</p> <ul style="list-style-type: none"> ○ Please submit a CD or flash drive for petitions that contain large files (1 MB or greater) ● Petitions can also be submitted via email to the following address: oliver.pierson@vermont.gov with the Subject Line of "Reclassification Petition" or "Reclassification Application" 			
1. Petitioner Name - Individual or organization	Shadow Lake Association		
2. Address	Street/P.O. Box		
	PO Box 135		
	Town	State	Zip Code
	Glover	VT	05839
3. Phone	802-525-6227		
4. Email of contact person	jeniferbandrews@gmail.com		
5. Petition Preparer Name	Jenifer B Andrews		
6. Co-Sponsors			

7. Waterbody Name(s)	Shadow Lake		
8. Portion of waterbody for petition	Location (add stream reach id if applicable)	Waterbody Coordinates (DD)	Elevation (ft.)
	From:	Latitude: 44.668N	1396'
To:	Longitude: -72226W		

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9. Petition Type (<i>Check one</i>)	<input type="checkbox"/> Reclassification (stream / river)	<input checked="" type="checkbox"/> Reclassification of lake	
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Reclassification Only (#x)			
	Use:	Proposed:	Current Use:
10. Water body Use proposed to be reclassified, current, and proposed classification. See Vermont Water Quality Standards §29A-306 for description of each use	<input type="checkbox"/> Aquatic Biota	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	
	<input type="checkbox"/> Aquatic Habitat	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	
	<input checked="" type="checkbox"/> Aesthetics	A(1) <input checked="" type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	B(2)
	<input type="checkbox"/> Fishing	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	
	<input type="checkbox"/> Swimming	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	B(2)
	<input type="checkbox"/> Boating	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(2) <input type="checkbox"/>	
	<input type="checkbox"/> Public Water Source	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(1) <input type="checkbox"/> B(2) <input type="checkbox"/>	
Other	<input type="checkbox"/> Riparian Habitat <input type="checkbox"/> Rare Species <input type="checkbox"/> Significant Natural Communities <input type="checkbox"/> Upland Uncommon Natural Community <input type="checkbox"/> Highest Priority Riparian Connectivity <input type="checkbox"/> Exemplary Surface Waters <input type="checkbox"/> Highest Priority Habitat Block, Connectivity Block, and Interior Forest Block	A(1) <input type="checkbox"/> A(2) <input type="checkbox"/> B(1) <input type="checkbox"/> B(2) <input type="checkbox"/>	

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Reclassification Criteria	
<p>Reclassification Criteria 11. List specific criteria per the Vermont Water Quality Standards (2017), Environmental Protection Rule Chapter 29A</p>	<p>Aquatic Biota: Biological criteria (<i>see Appendix G. biocriteria for fish and macroinvertebrate communities in Vermont wadeable streams and rivers - Vermont Water Quality Standards, 2017</i>)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Numeric water quality criteria (e.g., appended data records) <input type="checkbox"/> Documentation of Rare, Threatened or Endangered species <input type="checkbox"/> Documentation of Rare and Irreplaceable Natural Area or significant natural community <input type="checkbox"/> Documentation of numeric water quality chemistry (e.g., nutrient levels, turbidity, dissolved oxygen levels, alkalinity, pH) <input type="checkbox"/> Documented absence of toxic or radioactive substances <input type="checkbox"/> Undeveloped riparian zones <input type="checkbox"/> Limited human activity within the watershed <p>Aquatic Habitat:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Natural Flow Regime (<i>Documented attainment of hydrology and stream protection criteria - § 29A-304 of the Vermont Water Quality Standards, 2017</i>) <input type="checkbox"/> Temperature (data appended) <input type="checkbox"/> Documentation of Rare, Threatened or Endangered species <input type="checkbox"/> Documentation of Rare and Irreplaceable Natural Area or significant natural community <input type="checkbox"/> Undeveloped riparian zones <input type="checkbox"/> Limited human activity within the watershed <input type="checkbox"/> Other Aquatic Habitat Assessments (Describe or append assessment used) <p>Aesthetics:"</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Documented aesthetic qualities and characteristics <input type="checkbox"/> Documented water characteristics, flows, water level, bed and channel characteristics, and flowing and falling waters in their natural condition. <input type="checkbox"/> Documented maintenance of level of water quality that provides for the attainment and maintenance of the water quality standards of downstream waters (for lakes only). <p>Recreational Fishing:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Documented temperature in attainment with Cold Water Fish Habitat criteria (<i>for use in Wild Salmonid Stream re-classification petitions</i>) <input type="checkbox"/> Documented temperature in attainment with Cold Water Fish Habitat criteria (<i>temperature criteria in § 29A-302(B) of the Vermont Water Quality Standard</i>) <input type="checkbox"/> Measures of wild salmonid densities, biomass, and age composition consistent with those expected in waters in their natural condition. <input type="checkbox"/> Documented high incidence of accessibility to water <input type="checkbox"/> Documented high use by anglers (i.e., fishing identified as existing use) <input type="checkbox"/> Limited human activity within the watershed <input type="checkbox"/> Upstream/ downstream use attainment

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	<p>Recreational Boating:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Boating to the full extent naturally feasible without degradation due to artificial flow and water level management or artificial physical impediments <input type="checkbox"/> Boating to the extent feasible with no more than minor degradation due to artificial flow and water level management or artificial impediments, and with appropriate mitigation for artificial physical impediments <input type="checkbox"/> Prospective waters shall comply with the Hydrology Criteria in § 29A-304 of the Vermont water Quality Standards with respect to any flow alterations <input type="checkbox"/> Areas where existing boating use has been determined to be present and where, over some appreciable distance, certain features, free flowing water and/or notable whitewater or flat-water boating opportunities are found.
	<p>Recreational Swimming:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Prospective waters achieve and maintain a level of water quality compatible with very good or excellent quality swimming and other primary contact recreation with negligible risk of illness or injury from conditions that are a result of human activities. <input type="checkbox"/> Areas where existing swimming use has been determined to be present that have consistent <i>E. coli</i> values below <i>E. coli</i> criterion and which, over some appreciable distance, also possess certain high-quality features. <input type="checkbox"/> Well-known locally or regionally as a swimming area; <input type="checkbox"/> Documented pool(s) for swimming and/or water features that are enjoyable for swimming or bathing including chutes, cascades, waterfalls, cliffs, jumping rocks;
	<p>Public Water Source:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Existing A(2) was never developed and/ or was developed but then abandoned <input type="checkbox"/> or, prospective waters are currently managed, as necessary, for consistency with use as a public water source. Where sustained direct contact with the water occurs, waters shall be managed to achieve and maintain a negligible risk of illness or injury from conditions that are a result of human activities, <input type="checkbox"/> or, prospective could be managed to achieve and maintain a uniformly excellent character and a level of water quality highly suitable for use as a public water source with filtration and disinfection or other required treatment.

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<p>12. Purpose and need for reclassification – i.e., why is the change in classification now warranted? (<i>summary</i>)</p>	<p>Shadow Lake, Glover, is a jewel of a 210 acre lake which offers swimming and boating to Glover residents as well as neighbors from the towns that surround it and out-of-state visitors. Due to its maximum depth of 139 feet, it also offers excellent cold water fishing. Shadow is located in the Memphremagog Watershed and has a drainage basin of 5,310 acres. Although the water quality is outstanding which is (see Appendices) demonstrated through data that the Lay Monitoring and VIP reports and LaRosa water testing program data that Shadow Lake Association (SLA) collects, we notice that the total phosphorus concentration is increasing. Even though this is occurring, Shadow Lake continues to be a high quality oligotrophic body of water.</p> <p>The SLA, supported by the Town of Glover and others, is requesting the reclassification of Shadow Lake from a B(2) to A(1) in order to protect it as a valuable water body in our community and state. Shadow has gained a place on the Watershed Action Plan list as worthy for study. There has also been a Lakewise program initiated that is in its third year. Shadow Lake Association, along with the Town of Glover and State funding, has managed a Greeter and Decontamination Station at the Fish and Wildlife Access since 2003. In partnership, the SLA, Northwoods Stewardship Center and the Town of Glover, installed two Raingardens at the town beach in order that we curtail road runoff which the SLA maintains. Even though there have been many projects to ameliorate both runoff and incoming phosphorus, we still find ourselves with significantly increasing total phosphorus concentration numbers, suggesting the need to increase protections for Shadow Lake and reverse these deteriorating trends.</p> <p>Water Quality data, provided in the Appendix portion of this petition, shows that Shadow Lake meets DEC’s data requirements for reclassification to A(1) for Aesthetics based on the Vermont Water Quality Standards Aesthetic Use Numeric Nutrient Criteria and the requirements in the Vermont Surface Water Listing and Assessment Methodology. These same Appendices provide the data for Shadow Lake water quality monitoring and also show mean annual values for all years.</p> <p>The Town of Glover does not have any Zoning therefore, reclassification would mean that Shadow Lake could be protected and preserved into the future. With a lake association that implements many programs (Rain Gardens, Septic Socials as well as Lakewise and water quality measures), there are many committed people who will carry on this work.</p>
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<p>13. Town(s) adjacent to proposed waterbody (append letters of support from municipality and/or Regional Planning Commission and/or Natural Resource Conservation District and/or watershed organization)</p>	<p>*Town of Sheffield- pending *Town of Greensboro- pending *Town of Barton- pending *Town of Albany-pending *Town of Glover *Memphremagog Watershed Association</p> <p>See attached Reclassification Support Letters</p>
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<p>14. Potentially interested parties (abutting landowners, municipal and civic organizations, business interests, etc.) Provide names, address and phone numbers for each party.</p>	<p>Additional information should be attached and listed in box 14.</p> <p>~Northwoods Stewardship Center Meg Carter, 154 Leadership Drive, Island Pond, Vermont 05855 (802-723-6551)</p> <p>~The Federation of Lakes and Ponds PO Box 766 Montpelier, Vermont 05601</p> <p>~Lake Parker Association Brenda Plastridge, president President@lakeparker.org Glover, Vermont 05839</p> <p>~Shadow Lake Association PO Box 135 Glover, Vermont 05839 reclassification support letters - Google Drive</p>
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<p>15. Supporting Documentation (maps can be created using the ANR Atlas) <i>*required</i></p>	<p>Required</p> <ul style="list-style-type: none"> ● Map with location information and delineated area for petition with known public and private conserved land within the watershed ● Water quality monitoring data ● Map of Rivers and streams ● Map of lakes and Ponds
	<p>Recommended</p> <p>One-page document describing:</p> <ul style="list-style-type: none"> ● Existing zoning or protection at town level that may preclude or support designation ● Additional map(s) that include: <ul style="list-style-type: none"> ● Watershed boundary current land use and waterbody encroachments, including roads and structures ● Water quality and quantity impacts, including wastewater and stormwater, physical alterations, and (if available) stream geomorphic condition ● Land parcels conserved
<p>16. List of supporting materials attached</p>	<p>List attachment by number with names and dates: (ex. 1. Map of Waterbody to be Reclassified 4/5/2017; 2. Photographs of Waterbody for Reclassification 4/5/2017; 3. One Page Supporting Document 4/10/2017)</p> <ol style="list-style-type: none"> 1. Map of shadow lake to be reclassified 2/5/22. 2. Lay Monitoring Water Quality Data, 2011 – 2020 3. A(1) Comparison COMPARISON .xlsx - Google Sheets 4. Shadow Lake ANR Lake Scorecard 5. Bathymetry Map 6. Letters of Support

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Lead Sponsor Information			
Lead Sponsor Name: Jenifer Andrews			
80 Vanasse Road			Morristown
Vermont	05661	802-888-3536	
jeniferbandrews@gmail.com			
Lead Sponsor Signature:			Date:

Co-Sponsor Signatures	
Name:	
Organization:	
Co-Sponsor Signature:	Date:
Name:	
Organization:	
Co-Sponsor Signature:	Date:
Name:	
Organization:	
Co-Sponsor Signature:	Date:
Name:	
Organization:	

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Co-Sponsor Signature:	Date:
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DEC use			
Coordinates from / to of affected area	From (lat/long)		To (lat/long)
Elevation	At mouth:		At source- end of blue line:
Total drainage area km ² at mouth or area of standing water in acres		Drainage area of proposed water (km ²)	
Land use	% Natural	% Developed	% Agricultural
Available data to support specific use proposed reclassification			
Bio site ID (RM as xx), WBID	Bio Site ID		WBID
Map of waterbody, watershed and conserved lands in drainage	Include attached map title below		
Recommended Classification			