

# 11. CPA PROJECT APPLICATION FORM

[CPC Use Only: Date Received 1/14/21 By: SAMMIE KUL  
Assigned CPC #2022-<sup>03</sup>\_\_\_\_\_ ]

If possible, use word processor to fill out form. Please answer all questions, use "N/A" if not applicable.

1. a.) Applicant Name and Organization: Last Woodle, Alex First \_\_\_\_\_  
Organization(s) (if appropriate) Great Ponds Advisory Committee

b.) Regional Project: Yes ? or No?  If Yes, Town/Organization: Groton

2. Submission Date: 1/14/21

3. Applicant Address: St. 20 Highland Road  
City/ State: Groton, MA ZIP: 1450

4. Ph. # 978-732-3224 Email: alexander.woodle@gmail.com

5. CPA Purpose. Check all that apply:  
Community Housing  (Affordable Housing ) Historic Preservation\*  Open Space:   
Recreation

*\* As per MA General Law Chapter 44B, proposed historic projects that are not on the structures listed on the state's registry of historic places require a determination by the Groton Historic Commission that the proposed project is of historic significance.*

6. Town Committee or boards participating: Great Ponds Advisory Committee/Groton Lakes Assoc.

7. Project Location/Address: Lost Lake/Knops Pond Watershed

8. Project Name: Non-Point Sources of Pollution in Lost Lake/Knops Pond Watershed

9. Additional Responsible Parties (If applicable):

| Role (specify)      | Name  | Address                 | Ph. (w) (cell)    | Email               |
|---------------------|---|-------------------------|-------------------|---------------------|
| Property/Site Owner |   |                         |                   |                     |
| Project Manager     | <u>A. Woodle</u>  | <u>20 Highland Road</u> | <u>9787323224</u> | <u>alexander.wo</u> |
| Lead Architect      | <small>Order of Conditions from Conservation Commission</small> |                         |                   |                     |
| Project Contractor  |   |                         |                   |                     |
| Project Consultants |   |                         |                   |                     |
| Other:              |   |                         |                   |                     |
| Other               |   |                         |                   |                     |

10. As appropriate, indicate if proposal requires P&S agreement IN Deed IN  
Option agreement IN Other-describe: \_\_\_\_\_

11. a.) Assessor info. (map/ block/ lot id.(s)): N/A b.) Tax classification type: N/A

12. Permits required: Zoning: N/A Historic Preservation: N/A Other: Order of Conditions from Conservation Commission

13. Historic Commission Approval signoff (when required): \_\_\_\_\_ Date: \_\_\_\_\_

14. Funding: a.) Project Cost: \$ 49,000 Estimate: \$ \_\_\_\_\_ Professional Quote: \$ \_\_\_\_\_  
b.) Requested from CPC: \$ 43,000.00 c.) Committed from other sources: \$ 6,000.00  
d.) Annual anticipated total income: \$ \_\_\_\_\_ e.) Annual anticipated total expense: \$ 49,000.00  
f.) Anticipated net income (loss): \$ \_\_\_\_\_ g.) Estimator name/company: Alex Woodle

15. CCP Objectives - use codes from **Section 5** to indicate all that apply:

16. Project Timelines: Proposed Start Date: 7/1/21 Projected Complete Date: 6/30/22

17. Estimated Delivery Date of Completion Report to CPC: 9/1/21

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### **Project Description**

For the purposes of clarity for the reader, a couple of definitions from the outset may be useful:

1. **Point source** is pollution emanating from a single, identifiable source such as a drainage pipe from a factory or sewage plant; 2. A **non-point source** is pollution not coming from a single source; 3. **Stormwater** is from rain or melting snow that runs off land and/or roads picking up pollutants along the way and ending up into a watercourse; and 4. **Best management practices (BMPs)** are the most effective and practical means of preventing or reducing non-point source pollution.

As part of the continuation of the Lost Lake/Knops Pond Long-Term Lake Management Plan, the Great Pond Advisory Committee and the Groton Lakes Association are seeking funds to complete a major component of this plan namely the dataset identifying the non-point sources of pollution entering Lost Lake and the development of a mitigation plan to correct these problems.

Non-point sources of pollution include land runoff, drainage, seepage and precipitation. Erosion can wash the nutrients into the streams and carry them to the lake. The watershed contains forest, agriculture, commercial and institutional lands. The roads within these areas act as conduits for storm water run-off and contamination. In addition, there are non-point sources within the shoreline areas of the lake as well. These have been already documented by the Groton lakes Association (Attachment A). Previous studies (Attachments B, C, & D) in around the Knops Pond/Lost Lake Watershed have not identified the non-point sources nor have they formulated any mitigation plan.

The major nutrient loading comes from phosphorus and over the years, studies have confirmed that two-thirds of the phosphorus is entering Lost Lake through its two inlets. These two streams drain a watershed (Attachment E) that is fourteen times the size of the lake or approximately 2800 acres or almost 14% of Groton's land area.

The major goal is to lower the eutrophic level of phosphorus in Lost Lake's water column with the ultimate hope of reducing weeds and decreasing or eliminating the need to apply herbicides to treat them. Phosphorus is the main limiting factor for the health of the lake.

The federal government through the Environmental Protection Agency has recently been pushing for states to improve and update their plans for storm water management. Groton created an Enterprise Fund in 2020 and assessed each landowner an equal amount to capitalize this fund and implement best management practices for storm water management problems.

The completion of the non-point study would make Groton eligible to apply for federal funds under Section 319 of the Clean Water Act. The federal funds, not to exceed 60% of the total cost together with matching funds from the locale, would be used to implement best management practices.

The Open Space and recreation Plan (OSRP) recently adopted by the town of Groton, has as one of its goals “to protect and enhance the quality of Groton’s surface and groundwater resources.” Both the Groton Lakes Association and the Great Ponds Advisory Committee have committed \$6,000 to the successful completion of this program. This study if approved by the Community Preservation Committee, will help to achieve those goals.



Attachment A.pdf



Attachment B.pdf



Attachment C.pdf



Attachment D.pdf



Attachment E.jpg

18. Project description and explanation (attach additional sheets as needed): See Attached

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19. Feasibility: Storm water studies are currently a major focus for environmental consultants in 2020.

20. List of attachments: Attach A Erosion & Storm Water Run-off at Lost Lake/Knopps Pond, 2014; Attach B A Diagnostic/Feasibility Study For the Management of Lost Lake/ Knopps Pond; Attach C Comprehensive Wastewater Management Plan; Attach D Lost Lake Watershed Management Plan;

21. Additional Information: Attachment E The Lost Lake/ Knopps Pond Watershed Map

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22. Management Plan: The Contractor will identify the non-point sources of pollution entering Lost Lake through its two inlets. Water quality sampling will be measured in Lost Lake to gauge the influence of the nutrients flowing into the lake since the last study of 2017. The Contractor will suggest the Best Management Practices to remedy the identified sources of nutrient loading.

\_\_\_\_\_  
\_\_\_\_\_

23. Applicant Signature: *Alexander Woodle* Date: 1/14/20

Co Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Co Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_