Town of Southwick

454 COLLEGE HIGHWAY, SOUTHWICK, MA 01077

Community Preservation Committee

CPC SELECTION CRITERIA

Purpose

To assist the Community Preservation Committee with the decision making process of choosing which projects to bring to town meeting. To help eliminate any bias or subjectivity on the part of the committee members in the decision process. The criterion encompasses all three core categories: Open Space, Historic Preservation, and Community Housing.

Guidelines for Project Submission

1. Each project request must include the CPC Project Application and the CPC Selection Criteria Questionnaire. Additional pages should be added as necessary.

2. Requests must include a statement of need and be documented with appropriate support information. The use of maps, visual aids and other supplemental information is encouraged.

3. Obtain quotes for project costs whenever appropriate. If not available, estimates may be used provided the basis of the estimate is fully explained.

4. If the request is part of a multi-year project, include the total project cost and allocations.

5. For applicants that have multiple project requests, please prioritize projects.

6. Applicants must be present at a CPC meeting to answer questions. The CPC meeting schedule to review project proposals TBA.

7. Requests must include a statement of projected maintenance costs if applicable.

8. Documentation of known hazardous materials must be submitted.

9. Documentation of clear title must be submitted.

PROJECT APPLICATION
FOR
COMMUNITY PRESERVATION FUNDING

Submission Date: 2/20/2024

APPLICANT INFORMATION

Applicant: (Please circle public or private): Public

Lake Management Committee

Street Address: 454 College Highway

P.O. Box:

Town, State, Zip Code: Southwick, MA 01077

Telephone: 4135696772

E-mail: dpw@southwickma.gov

Website: www.southwickma.org

Contact Person(s) and/or Project Director(s):

Richard Grannells - Lake Management Commttee - CHair

Name Title

Name of governing board, trustees, directors or members:

Lake Management Committee
Richard Grannells - Chair
Eric Mueller - Vice Chair

Federal Tax Identification Number (if non-profit) 046-001-307

PROJECT INFORMATION

Amount Requested $ 50,000 (FY25) + 50,000 (FY26)

Project Site Address:

Cove adjacent to South Boat Ramp

10 Berkshire Avenue

Project Site Assessors Map/Parcel: 149

Project Site Deed Book/Page: 064

Current Owner: Commonwealth of Mass Great Pond

Purpose (please check all that apply)

- X Open Space
- X Recreation
- ____ Historical
- ____ Housing

Brief Project Description:

The Select Board recently approved Lake Management Committee (LMC) applying for a MA EOED FY25 Inland Dredging Pilot Grant to dredge the cove adjacent to the South Boat Ramp which over the decades has become filled with sand and muck to where there is less than 2' of water in much of it. Boat motors/props hang up on that material and the sand/gravel road that was aattempted to be constructed between Saunders Marina and the then Saunders property which was transferred to MA OFBA as part of a 1967 settlement with DEP. It is lso the mouth of Great Brook headwaters that starts at the adjacent twin box culverts equipped with weir gates. LMC has been working with NRCS who has a consultant developing detailed plans to restore fllow to Great Brook that currently reverse flows due to bein clogged over much of its route in Southwick.

Signature of Applicant: _____ Date: 2/21/2024

Signature of Owner of Property: _____ Date: _____

PROJECT INFORMATION

Please include a narrative on all applicable subjects

Project Title: Dredge cove adjacent to South Boat Ramp Grant

X 1. Scope or Concept of Project:

X 2. Project Goal (Provide a list of broad goal (s) of the proposed project)

X 3. Project Objectives (Provide a list of specific objectives for the project)

X 4. Projected Action Plan and Timeline: (List the steps needed to complete the project. These steps will be critical to completing Project status Reports.)

X 5. Project evaluation and maintenance: (Describe how you will monitor progress to identify what works and what needs improvement. Indicate how continuation of the project will be secured after the grant)

X 6. Other Funding Source (s), including private/public/in-kind

X 7. CPC Funding Request

X 8. Budget - Briefly describe expected project costs
- Personnel (existing)
- Personnel (new)
- Operating Expenses (e.g. printing, telephone, postage, materials)
- Other Expenses

X 9. Budget Justification: (Provide an explanation for why each type of expense is needed)

X 10. List and describe any established records of comparable projects by Applicant.

X 11. Describe how the project accomplishes the goals/objectives of the CPC.

X 12. Relevance to Community (indicate how the project is important and innovative. Describe how this project is relevant to the current and/or future needs of the Southwick Community.)

X 13. Support Documents (Provide letters of support; references; pertinent studies or statistics, etc).

X 14. Completed Selection Criteria

DREDGE COVE ADJACENT TO SOUTH BOAT RAMP – PROJECT INFORMATION

1. Scope or Concept of Project
    a. If the Town/LMC is successful in obtaining one of the FY25 Inland Dredging Pilot Grants, the LMC plans to issue an RFP to seek Contractors with the ability to dredge ~3200 cu yd of accumulated sand, gravel and muck from the cove adjacent to the South Boat Ramp that is located at 10 Berkshire Avenue (see attached map).
    b. The plan is to use of a Portadam to allow "dry" dredging of the materials in this cove as hydro-dredging would not be compatible with removal of the stone/gravel/sand road built back in the late 1960s between the marina on Congamond Road and the property that was then owned by the marina owner and is now the South Boat Ramp owned by the MA Office of Fishing & Boating Access.
2. Project Goals
    a. The goal is to restore the depth of water to its original 4' minimum before the road materials were added and muck accumulated from thousands of years of decay of organic materials. This work will improve boater safety, water quality and flow to Great Brook as Great Brook headwaters begin at the twin culverts located at the western end of this cove.
3. Project Objectives
    a. The objectives are to improve the three areas noted in the above project goals by successful removal of these accumulated materials from this cove.
    b. Congamond is part of the 14,000 year old ice-age former Lake Hitchcock that ran along VT/NH boundary from close to the Canadian border southerly to Rocky Hill, CT (see attached map). Congamond suffers from excessive nutrient load and high water, a major part of which is caused by reverse-flowing of Great Brook (formerly Congamond's major outlet) that results in significant flooding of and damage to waterfront properties, excessive shoreline erosion, increase in nutrient loading from swamp waters and farmland located adjacent to Great Brook and compromising of septic systems still in use at waterfront properties.
    c. The cove dredging associated with this project will play a significant part of NRCS's current program efforts to restore flow to Great Brook (and Canal Brook) to reduce flooding on Congamond. The LMC has been tracking Congamond Lake Level since 2011 (see Congamond Lake Level Data attached) and has sought an NRCS project to address Congamond's outlets (Great Brook and Canal Brook) that have both become very clogged over the decades.
    d. While 90+% of Southwick waterfront properties are on Town Sewer, the CT shoreline homes are not and many of those CT homes are near the lakeshore and only a few feet above nominal lake level of 224.5' MSL. The Lake Level Data shows the number of times and duration of lake levels above 225' MSL.
    e. The hurricane of 1955 raised the level of Congamond so high that it not only flooded Congamond waterfront properties, but also "blew out the earthen dam on the northwestern corner of North Pond.
4. Projected action Plan and Timeline
    a. Notice to Proceed to Designer – Start Date: 7/1/24
    b. Design 25% Completion – End Date 9/1/24
    c. Design 75% Completion – End Date: 10/31/24
    d. Permitting 100% Completion – End Date: 3/31/25
    e. Bid Opening – End date: 5/31/25
    f. Construction Mobilization – Start Date: 11/1/25
    g. Construction 50% Completion Date – End Date: 12/31/25
    h. Construction 100% Completion Date – End Date: 1/31/26

5. Project evaluation and maintenance
    a. Before the Portadam is removed, the profile (elevations) of dredged area will be checked while dry to verify that the as-designed water depths have been achieved.
6. Other Funding Sources
    a. The Town/LMC is in process of preparing a MA Dredging Program FY25 Inland Dredging Pilot Grant Application that is required to be submitted by noon on 3/1/25. The grant total being applied for is $297,000.
7. CPC Funding Request
    a. The LMC is seeking $50,000 in FY2025 CPA funds to cover costs unanticipated at the time of Inland Pilot Dredging Grant Application that is due 3/1/24 that may be found during the required design, core sampling and permitting processes.
    b. The LMC is also seeking $50,000 in FY2026 in CPA funds to cover unanticipated costs that may be encountered once the dredging process has been initiated and during that approximately one-month long process.
    c. If LMC added these contingencies amounts to the $16,000 already in the grant request, it would likely put our grant out of contention as there is only $4M in the "pot" to allocate to all grants statewide.
8. Budget (Grant Budget Categories Estimated for Grant Application)
    a. Final Design & Permitting: $70,000
    b. Mobilization & Demobilization: $10,000
    c. Dredging & Material Disposal: $126,000
    d. Other Construction Services & Materials (Includes Portadam Rental): $60,000
    e. Construction Administration & Environmental Monitoring: $15,000
    f. Contingency: $16,000
    g. Grant Application Total: $297,000
9. Budget Justification
    a. The detailed design, core sampling and permitting tasks are planned for FY25 and cannot be initiated until after (if and when) the Town/LMC receives the requested grant. Core sample results could drive additional permitting and/or costs related to disposal of materials and hence the request for $50,000 CPA funds to cover unforeseen costs in FY25.
    b. The construction phase includes Portadam installation, pumping down the area, dredging, dewatering and disposal. While the core samples provide data on any heavy metals or other contaminants, it is only until the dewatering takes place that the amount of "muck" versus sand, gravel & stone, particularly in the "roadway" to be removed, will be known. The amount and locations of "soggy" muck versus sand, gravel & stone will determine the amount of dewatering that is necessary as muck takes longer to dry than sand, gravel & stone. This "unknown" drives the request for $50,000 of CPA funds in FY26 to cover this potential added cost.
    c. The Town/LMC limnologist and I participated in the Dredging Grant webinar and both felt that we needed to keep the Grant request total realistically below $300,000 as the total authorization ("pot") for the grant is only $4 million and there are 181 listed "Rural" municipalities of 351 total Massachusetts municipalities that are potentially eligible for this one-time grant.
10. List and describe any established records of comparable projects by Applicant
    a. The LMC sought and obtained a $20,000 Lakes & Ponds Grant nearly 30 years ago to (dragline) dredge the channel between the North Ramp and the old 7' diameter culvert that used to interconnect the Middle and North Ponds.

b. The LMC sought and obtained $856,000 in State funds to replace the old culvert between Middle and North Ponds. The LMC oversaw the bidding process and construction for this project that included dry-dredging (within the sheeting) by the General Contractor of the areas at the southern and northern ends of the new 14' wide x 12' high concrete box culvert.
c. The LMC sought and obtained $1.1M in Federal funds (Grant) to replace the smaller concrete box culvert between Middle and South Ponds in 2007. This project that was overseen by LMC also included dry-dredging (within the sheeting) of the areas north and south of the new culvert by the General Contractor.
d. The LMC worked with the Office of Fishing & Boating Access (OFBA) on the plan, permitting and construction of the 200' long Public Fishing Pier constructed in 2002 off the point of the OFBA-owned North Ramp property. That project included dry-dredging (within the installed ~500' of Portadam) of parts of the area surrounding the pier. The shallow area consisted of sand and stones left behind from a "road" that was built in 1957 off the same North Ramp property point to retrieve an experimental helicopter that crashed into Congamond at that location.
e. The LMC worked with the OFBA on reconstruction of the North Ramp Launch in 2014 that included dry-dredging (within the sheeting) of the area outboard the new poured-in-place concrete pads where there was a large mound of sand that had accumulated over the decades from power-loading of boats.
f. The LMC worked with the OFBA on reconstruction of the South Ramp Launch in 2018 that included dry-dredging (within the sheeting) of the area outboard the new poured-in-place concrete pads where there was a large mound of sand that had similarly accumulated over the decades from power-loading of boats.

11. Describe how project accomplishes the goals/objectives of the CPC
    a. This project improves access when launching or loading boats at the South Ramp as many a prop has been damaged or destroyed by boaters especially during launching as they are backing into the very shallow area.
    b. This project also removes a significant volume of nutrient-laden muck that fosters algae blooms and growth of invasives in that area.
    c. This project also improves boat access for the 5 homes within that cove that currently cannot get to their docks without fully raising their props. In fact, the bottoms of some of their boats rub on the sand below that has accumulated over the decades.
    d. Lastly, removal of sand and muck from the far northwestern part of this cove will significantly benefit outflow of water to Great Brook when NRCS addresses restoration of flow to Great Brook to help alleviate flooding of Congamond waterfront properties, which hopefully will occur over the next 4 – 5 years.
12. Relevance to Community
    a. Congamond is a great recreational asset and economic benefit to Southwick. Besides daily launches from the two public boat ramps, there are now a total of 3 marinas that have boat mooring facilities on Congamond and Saunders Marina provides boat sales, boat rentals, gasoline and marine service.
    b. The North & South Ramps bring some 6000+ paid launches annually which also includes some 80+ fishing tournaments annually. In addition, there are another estimated 1000+ unpaid launches that occur when the ramps are not staffed and the boaters who moor their boats at the marinas and at friend's waterfront homes. Many of the people who visit and boat on Congamond patronize local gas stations, restaurants, service marina and local stores.

c. There are also 3 restaurants located on the waterfront, two of which have docks for patrons visiting from the water.
d. Southwick has its Public Town Beach on South Pond that brings thousands of patrons during the season.

13. Support Documents
    a. Map showing the South Ramp cove area to be dredged
    b. Map of 14,000 year old (Ice-Age) Lake Hitchcock
    c. Copy of 2001 cove water depth data taken by LMC volunteers
    d. Copy of the email regarding OFBA allowing the use of the South Ramp paved parking area for dredged materials temporary storage and dewatering.
    e. Copy of LMC Congamond Lake Level Data (2011 – 2024)
    f. A copy of the latest work-in-process Grant Application will be provided to the CPA.
14. LMC volunteers mapped the water depths of this cove in a 25' x 25' matrix back in 2001 (copy attached to this CPA Application). The data clearly shows that water depths in this cove were very problematic at that time. These shallow, problematic, water depths and accumulated nutrient-rich muck have only gotten worse over the last 2 decades since that data was taken.
15. Completed Selection Criteria

South Ramp Cove

Southwick, MA

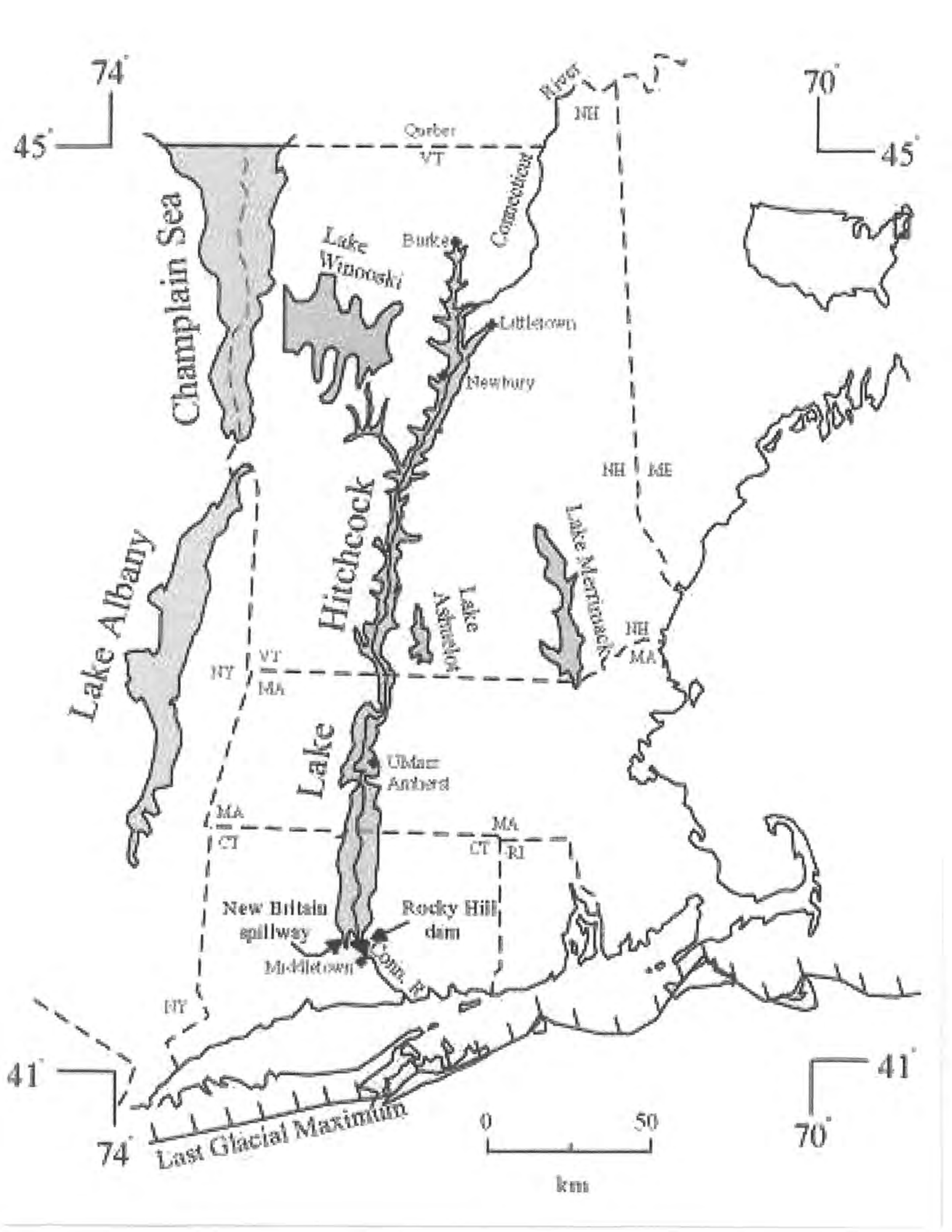
1 inch = 139 Feet

0 139 278 417

February 14, 2024

CAI Technologies
Precision Mapping Geospatial Solutions
www.cai-tech.com

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.


74°
45°
70°
45°
Champlain Sea
Lake Albany
Lake Hitchcock
Lake Merrimack
Lake Winooski
Lake Ashuelot
Lake
Connecticut River
Quebec
VT
NH
Burke
Littletown
Newbury
NH
ME
NH
MA
NY
VT
MA
Ubdam
Amherst
MA
CT
MA
CT
RI
New Britain spillway
Rocky Hill dam
Middletown
Conn. R.
NY
41°
41°
74°
70°
Last Glacial Maximum
0
50
km

South Cove Water Depths (2001) -- Based on 224' - 8" MSL at Berkshire Avenue Culvert 6/30/01 @ 2:00 P.M.

Feet from 0-0	75' east of ramp dot Water (ft-in)	50' east of ramp dot Water (ft-in)	25' east of ramp dot Water (ft-in)	0-0 Intercept (fence on opp side of lake) Water (ft-in)	25' west of ramp dot Water (ft-in)	50' west of ramp dot Water (ft-in)	75' west of ramp dot Water (ft-in)	100' west of ramp dot Water (ft-in)	125' west of ramp dot Water (ft-in)	150' west of ramp dot Water (ft-in)
300	0-0	0-0	0-0	1-0	0-0	0-0	0-0	0-0	0-0	0-0
275	0-6	2-0	2-0	2-0	1-0	0-0	0-0	0-0	1-0	weeds
250	2-6	3-0	3-0	3-0	2-6	1-6	1-6	1-0	1-6	weeds
225	2-6	3-0	3-0	3-0	3-0	2-0	3-0	2-0	2-6	lawn
200	2-6	3-0	3-0	3-0	3-0	3-0	2-6	2-6	2-6	lawn
175	2-0	2-6	3-0	2-6	3-0	3-0	3-0	2-6	2-6	weeds
150	2-0	2-6	2-6	2-6	2-6	3-0	3-0	2-6	2-6	weeds
125	2-0	2-0	2-0	2-6	2-6	2-6	2-6	2-6	2-6	weeds
100	2-6	2-6	2-6	2-6	2-6	3-0	3-0	3-0	2-6	weeds
75	3-0	3-0	2-6	2-6	2-6	2-6	2-6	2-6	2-6	weeds
50	4-0	3-6	3-0	2-6	2-6	2-6	2-6	2-6	2-6	weeds
25	5-0	3-6	3-0	2-0	2-6	2-6	2-0	2-6	2-6	2-6
0	6-6	4-0	3-6	cross[1]	curbing[2]	curbing[2]	curbing[2]	curbing[3]	lawn	lawn

1 -- Cross located on ramp pad 7' east of light pole (line intersects with chain link fence on opposite side of cove).
2 -- Granite curbing used to define line of east/west boundary of measurements
3 -- 3' east of corner from granite curbing in southwest corner of parking lot

Dick Grannells

From: Cameron, Doug (FWE) <doug.cameron@mass.gov>
Sent: Thursday, February 01, 2024 7:40 AM
To: Dick Grannells
Cc: Eric Mueller (ct.emueller@cox.net)
Subject: RE: South Ramp Cove Dredging Plan

Hi Dick:

We have issued a General Permit 320 CMR 2.03(2) for similar projects, so it seems like this project would be able to be issued a General Permit also.

Regards,

Doug C.
OFBA

From: Dick Grannells <dpw@southwickma.gov>
Sent: Thursday, February 1, 2024 7:35 AM
To: Cameron, Doug (FWE) <doug.cameron@mass.gov>
Cc: Eric Mueller (ct.emueller@cox.net) <ct.emueller@cox.net>
Subject: South Ramp Cove Dredging Plan
Importance: High

Hi Doug,

Would we be able to use the South Ramp paved area for collecting, containing, dewatering and offloading the dredged materials from the adjacent cove if we are successful in obtaining an Inland Dredging Pilot Program Grant? We should be able to time the actual dredging work to be in the "off season" like early spring or late fall so it would not interfere with the boating season. This dredging project will remove the accumulated muck and other debris that has resulted in a depth of only a couple of feet in the area just beyond the launch pads. We would anticipate using hay bales to contain the solids and allow the water to slowly trickle back into the lake. It is anticipated that some 3200 cu yds will be removed using a hydro-dredge, dried and transported to a nearby farm that was permitted by DEP for dredged materials disposal for previous dredging projects in Congamond (i.e. navigation channel by North Ramp, North Ramp reconstruction, public fishing pier, North Pond/Middle Pond interlake culvert, South Pond/Middle Pond interlake culvert, South Ramp reconstruction, Island/Mainland canal). It is currently anticipated that dredging would take place in the CY 25 timeframe as design and permitting is anticipated to be in the CY 24/25 timeframe should we be successful in obtaining a grant to fund what is estimated to be $250K project (design, permitting & construction).

Dick

Richard Grannells
Lake Management Committee - Chair

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
				NO MOTORIZED BOATING rising if above 225.2' MSL (0.9' above Berkshire Ave sill)		
				NO MOTORIZED BOATING falling if at/above 224.8 MSL (0.5' above Berkshire Ave sill)		
				DURING LAKE CLOSURES, State Boat Ramps & Marinas will be closed for motorized boats.		
				The launching of non-motorized boats will be allowed.		
				NOMINAL LAKE LEVEL: 224.4 +/- 0.1 FT MSL (224.3' to 224.5' MSL)		
01/04/11	Tue	3:50 PM	224.30	Water even with Berkshire Avenue sill (224.3' MSL)	-1.2	-0.10
03/16/11	Wed	3:10 PM	225.40	Following 3" rainfall then 2" rainfall over past week; ~12" ice left; lake 4" over brook; raised one panel	12.0	1.00
03/19/11	Sat	9:50 AM	225.10	Lake nearly even with Great Brook level	8.4	0.70
03/29/11	Tue	3:15 PM	224.70	Some water flowing in from Great Brook (boards up on northern side)	3.6	0.30
05/02/11	Mon	4:00 PM	224.40	Some water flowing in from Great Brook (boards up on northern side)	0.0	0.00
06/28/11	Tue	4:05 PM	224.70	Following several 1" rainstorms over several days	3.6	0.30
08/16/11	Tue	3:15 PM	224.70	Following several 1" rainstorms over several days	3.6	0.30
08/26/11	Fri	4:00 PM	224.50		1.2	0.10
08/28/11	Sun	8:30 AM	224.90	Midpoint of Hurricane Irene	6.0	0.50
08/28/11	Sun	2:12 PM	225.20	Continuing Hurricane Irene - Lake rising rapidly - Recommend close lake - OK Karl, BOS & FBA	9.6	0.80
08/28/11	Sun	5:00 AM	225.40	End of rainfall Hurricane Irene -8" Total -- Lake rising with water still rushing into Canal Brook	12.0	1.00
08/29/11	Mon	7:15 AM	225.80	**Lakes closed to all boating until at least Thursday - Public Notice given**	16.8	1.40
08/30/11	Tue	6:30 AM	225.90	**Water still coming in from Canal Brook - Palmer Brook & swamp influx - NO BOATING**	18.0	1.50
08/30/11	Tue	4:00 PM	225.90	**Water just beginning to flow out of lakes via Canal Brook - NO BOATING**	18.0	1.50
08/31/11	Wed	6:25 AM	225.80	**Water finally rushing out via Canal Brook - NO BOATING**	16.8	1.40
08/31/11	Wed	6:15 PM	225.70	**Lake still even with Great Brook at Berkshire Ave structure - NO BOATING**	15.6	1.30
09/01/11	Thu	3:35 PM	225.50	**Lake still even with Great Brook at Berkshire Ave structure - NO BOATING**	13.2	1.10
09/02/11	Fri	9:30 AM	225.40	**Opened/closed Great Brook northern batter board (poured into lake) - NO BOATING**	12.0	1.00
09/02/11	Fri	3:30 PM	225.30	**Many docks still in or under water - Lake opened to NO WAKE by BOS for Saturday 9/3**	10.8	0.90
09/03/11	Sat	8:10 AM	225.10	**Lake opened by BOS to all boating with no restrictions for Sunday 9/4**	8.4	0.70
09/04/11	Sun	9:00 AM	224.90	**Great Brook above lake at batter boards**	6.0	0.50
09/05/11	Mon	7:35 AM	224.80	**Great Brook above lake at batter boards**	4.8	0.40
09/06/11	Tue	4:00 PM	224.70	Rain from tropical storm Lee began late Tuesday	3.6	0.30
09/07/11	Wed	3:45 PM	224.80	Rain continues on/off from tropical storm Lee	4.8	0.40
09/08/11	Thu	3:15 PM	225.10	Heavy rains from tropical storm Lee - Rains stopped mid-day	8.4	0.70
09/08/11	Thu	6:00 PM	225.20	Water rushing into lakes from Canal Brook & wetlands; 8" rainfall since Tuesday 9/8	9.6	0.80
09/09/11	Fri	6:40 AM	225.30	Water still rushing into lakes from Canal Brook & wetlands; Palmer Brook blocked west of Rail Trail	10.8	0.90
09/09/11	Fri	2:15 PM	225.30	Lake topped out - NO WAKE conditions thru Sunday approved by H/M & BOS	10.8	0.90
09/10/11	Sat	7:00 AM	225.30	Lake holding at <0.5" drop	10.8	0.90
09/11/11	Sun	2:00 PM	225.30	Lake holding at <0.5" drop; Water still rushing into lake from wetlands	10.8	0.90
09/12/11	Mon	6:45 AM	225.20	Lake dropped ~1" from max - maintain NO WAKE conditions	9.6	0.80
09/13/11	Tue	3:00 PM	225.05	Lakes still dropping slowly, but should be okay to open to full boating by late Wednesday	7.8	0.65
09/14/11	Wed	10:30 AM	224.85	Recommend fully reopen lakes to unrestricted boating as of 5:00 AM Thursday (9/15)	5.4	0.45
09/17/11	Sat	8:15 AM	224.60		2.4	0.20

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
10/18/11	Tue	3:20 PM	224.60	Following several 1" - 2" rainstorms over several days	2.4	0.20
12/02/11	Fri	3:15 PM	225.00	Following several 1" - 2" rainstorms over several days	7.2	0.60
12/05/11	Mon	3:20 PM	224.85	Mostly dry weather in last 5 days	5.4	0.45
12/08/11	Thu	9:30 AM	225.40	Chris Sears at Canal; Water rushing into lakes via Canal Brook post 3+ inches rainfall in 24 hours	12.0	1.00
12/08/11	Thu	3:10 PM	225.50	Measured at Berkshire Avenue culvert after rain stopped ~12 hours before	13.2	1.10
12/09/11	Sat	11:50 AM	225.30		10.8	0.90
12/14/11	Wed	3:10 PM	225.00	~0.5" rainfall on 12/13	7.2	0.60
12/17/11	Sat	12:35 PM	224.90	Control structure debris being cleaned out this morning	6.0	0.50
12/24/11	Sat	12:10 PM	224.85	Following ~1" rainfall	5.4	0.45
01/05/12	Thu	3:10 PM	224.75	Following ~1" rainfall	4.2	0.35
01/08/12	Sun	1:40 PM	224.65		3.0	0.25
01/20/12	Fri	3:15 PM	224.50	Lake finally iced over 1/18/12	1.2	0.10
01/30/12	Mon	3:35 PM	224.75	Following ~1.5" rainfall	4.2	0.35
02/03/12	Fri	3:20 PM	224.65	No rainfall since above	3.0	0.25
02/10/12	Fri	3:40 PM	224.50	No rainfall since above	1.2	0.10
02/23/12	Thu	3:20 PM	224.50	Some rainfall	1.2	0.10
03/03/12	Sat	4:00 PM	224.60	No rainfall since above	2.4	0.20
03/04/12	Sun	3:40 PM	224.60	No rainfall since above	2.4	0.20
03/05/12	Mon	3:45 PM	224.50	No rainfall since above	1.2	0.10
03/06/12	Tue	3:30 PM	224.50	No rainfall since above	1.2	0.10
04/12/12	Thu	9:35 AM	224.60	No rainfall since above	2.4	0.20
04/23/12	Mon	7:15 PM	225.00	2" rain + Canal Brook clogged by storm debris/beaver dams	7.2	0.60
04/30/12	Mon	10:50 AM	224.60	Debris cleared out of CT section by volunteers	2.4	0.20
05/04/12	Fri	11:55 AM	224.60	Following ~1 rainfall on 5/1	2.4	0.20
05/31/12	Thu	3:10 PM	224.45	Following 0.75" rainfall on 5/29	0.6	0.05
07/11/12	Wed	3:25 PM	224.25	Some rainfall	-1.8	-0.15
10/04/12	Thu	3:30 PM	224.65	5.5" rain over several days + Canal Brook clogged by storm debris/beaver dams	3.0	0.25
10/27/12	Sat	1:20 PM	224.65	Beaver dams still totally impeding flow of Canal Brook	3.0	0.25
10/30/12	Tue	4:45 PM	224.90	Beaver dams still totally impeding flow of Canal Brook + 1.5 to 2" rainfall from Sandy	6.0	0.50
11/10/12	Sat	2:00 PM	224.90	Beaver dams removed by volunteers	6.0	0.50
11/19/12	Mon	10:05 AM	224.65	Dams repaired by beavers and water backed up again in CT part	3.0	0.25
11/21/12	Wed	9:45 AM	224.65	No rainfall since above	3.0	0.25
11/28/12	Wed	3:20 PM	224.65	No rainfall since above	3.0	0.25
02/07/13	Thu	2:00 PM	224.90	3" rainfall + 1' snow + beaver + beaver dams on canal	6.0	0.50
02/12/13	Tue	3:00 PM	224.90	26" snow over weekend + 0.75" rain on top of ice	6.0	0.50
02/27/13	Wed	11:00 AM	225.00	More snow and rain over past week on top of ice	7.2	0.60
04/25/13	Thu	3:15 PM	224.90	No rainfall since above but beaver dams in CT holding back 1'	6.0	0.50
05/07/13	Tue	3:30 PM	224.80	Minor rainfall since above; beaver dams in CT still in place	4.8	0.40
05/21/13	Tue	3:00 PM	224.50	Beaver dams breached in CT ~1 week ago + no rainfall	1.2	0.10
05/24/13	Fri	5:45 PM	224.85	6.9" rainfall over 2 days	5.4	0.45
06/04/13	Tue	4:15 PM	224.71	2.9" rainfall over 2 days - Canal 1" below weir downstream side	3.7	0.31
06/06/13	Thu	10:45 AM	224.65	No rainfall since above.	3.0	0.25
06/08/13	Sat	7:20 AM	225.00	4.6" rainfall over 2 days - Canal still flowing southerly (slowly)	7.2	0.60

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
06/10/13	Mon	7:30 PM	224.90	No rainfall in between readings but large storm coming	6.0	0.50
06/12/13	Wed	7:00 AM	225.00	2.6" rainfall over last 2 days	7.2	0.60
06/12/13	Wed	3:00 PM	224.90	No rain since last storm; 2+ inches rain forecast for 6/13-6/14	6.0	0.50
06/13/13	Thu	8:00 AM	225.00	Raining	7.2	0.60
06/14/13	Fri	6:35 AM	225.20	**2.9 rainfall since last storm. Still raining, - NO WAKE conditons**	9.6	0.80
06/14/13	Fri	7:00 AM	225.25	**NO BOATING**	10.2	0.85
06/14/13	Fri	10:00 AM	225.35	**Lake still rising; Lake Closed to all boating per BOS**	11.4	0.95
06/15/13	Sat	7:30 AM	225.55	**Palmer & Cannon Brooks overflowing Canal**	13.8	1.15
06/16/13	Sun	8:00 AM	225.40	**NO BOATING**	12.0	1.00
06/17/13	Mon	11:30 AM	225.20	**NO BOATING**	9.6	0.80
06/17/13	Mon	3:30 PM	225.10	**NO BOATING**	8.4	0.70
06/18/13	Tue	5:35 PM	225.00	**0.5" rain in ~15 minutes; still NO BOATING**	7.2	0.60
06/19/13	Wed	7:55 AM	224.95	**NO BOATING**	6.6	0.55
06/19/13	Wed	12:10 PM	224.90	**NO BOATING**	6.0	0.50
06/20/13	Thu	8:30 AM	224.80	Lake reopened to boating per SPD-HM, LMC & BOS	4.8	0.40
06/24/13	Mon	5:00 PM	224.75	No rainfall since above	4.2	0.35
06/27/13	Thu	10:45 AM	224.65	No rainfall since above	3.0	0.25
07/01/13	Mon	11:00 AM	224.58	2.1" rainfall since last rainfall	2.2	0.18
07/02/13	Tue	8:15 PM	224.70	Following 2.6" rainfall on 7/1	3.6	0.30
07/04/13	Thu	9:00 AM	224.65	No rainfall since above	3.0	0.25
07/18/13	Thu	10:00 AM	224.50	No major rainfall since above - temp been in 90s	1.2	0.10
07/19/13	Fri	10:00 AM	224.45	No major rainfall since above - temp been in 90s	0.6	0.05
07/29/13	Mon	10:45 AM	224.42	Following 2.25" rainfall on 7/26 & 7/27	0.2	0.02
08/08/13	Thu	11:15 AM	224.25	No major rainfall since above - temp been in 80s	-1.8	-0.15
08/11/13	Sun	10:00 AM	224.80	Following 3.1" rainfall on 8/9/13	4.8	0.40
08/16/13	Fri	3:10 PM	224.38	No major rainfall since above - temp in 80s	-0.2	-0.02
09/05/13	Thu	5:35 PM	225.13	Following 2.5" rainfall & beaver dams holding back >12" water	8.8	0.73
09/11/13	Wed	9:30 AM	224.45	Dams removed 9/5 & no rainfall since	0.6	0.05
09/14/13	Sat	10:15 AM	224.40	0.5" rain since	0.0	0.00
10/08/13	Tue	9:00 AM	224.90	1.25" rain yesterday (beaver dams holding back ~10 water)	6.0	0.50
10/28/13	Mon	11:00 AM	225.10	Temporary sandbag dams installed at weir gate install area	8.4	0.70
11/04/13	Mon	11:00 AM	225.10	Weir gates in place and temporary dams removed	8.4	0.70
11/08/13	Fri	10:00 AM	224.80	Water free-flowing over new weir gates	4.8	0.40
11/13/13	Wed	3:50 PM	224.50	Water free-flowing over new weir gates	1.2	0.10
11/26/13	Tue	2:30 PM	224.35	Water free-flowing over new weir gates	-0.6	-0.05
12/04/13	Tue	3:45 PM	224.20	Water free-flowing over new weir gates	-2.4	-0.20
12/28/13	Sat	12:45 PM	224.25	Water free-flowing over new weir gates	-1.8	-0.15
04/02/14	Wed	3:00 PM	224.80	Following 3.6" rainfall over ~12" ice	4.8	0.40
04/03/14	Thu	3:30 PM	224.75	No rainfall since above and ice is on way out	4.2	0.35
04/04/14	Fri	6:15 PM	224.71	No rainfall since above and ice is nearly out	3.7	0.31
04/08/14	Tue	4:40 PM	224.67	0.6" rain on 4/7	3.2	0.27
04/13/14	Sun	3:30 PM	224.50	0.1" rain on 4/13 morning	1.2	0.10
04/29/14	Tue	11:30 AM	224.35	0.5" rain since above reading	-0.6	-0.05

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
05/01/14	Wed	7:00 AM	224.80	3.3" rain since above reading	4.8	0.40
05/01/14	Wed	7:20 PM	224.70	Few showers since above reading	3.6	0.30
05/02/14	Fri	5:45 PM	224.83	Few showers since above reading	5.2	0.43
05/08/14	Thu	8:25 AM	224.67	No rain since above reading	3.2	0.27
05/17/14	Sat	6:00 PM	224.91	2.5" rain since above reading - in one storm	6.1	0.51
05/18/14	Sun	11:00 AM	224.87	No rain since above reading	5.6	0.47
05/21/14	Wed	11:35 AM	224.75	No rain since above reading	4.2	0.35
05/24/14	Sat	10:30 AM	224.75	After 0.3" rain since above reading	4.2	0.35
05/26/14	Mon	11:45 AM	224.70	No rain since above reading	3.6	0.30
06/03/14	Tue	3:25 PM	224.67	Some rainfall	3.2	0.27
06/06/14	Fri	11:35 AM	224.67	Some minor rainfall	3.2	0.27
06/13/14	Fri	8:45 AM	224.75	1.3" rainfall since last - Canal blocked by beaver dams	4.2	0.35
06/16/14	Mon	11:00 AM	224.83	0.9" rainfall since last - Canal still blocked by beaver dams	5.2	0.43
06/18/14	Wed	4:05 PM	224.75	0.2" rainfall since last - Canal opened up on 6/17	4.2	0.35
06/22/14	Sun	11:45 AM	224.50	No rainfall since last reading	1.2	0.10
06/26/14	Thu	6:00 AM		0.5" rainfall overnight		-224.40
07/04/14	Fri	9:00 AM		1.2" rainfall from hurricane Arthur - Dam just over CT line		-224.40
07/05/14	Sat	11:00 AM		0.4" rainfall - Canal blocked by dam just over CT line		-224.40
07/08/14	Tue	7:00 PM		0.4" rainfall - Canal blocked by dam just over CT line		-224.40
07/14/14	Mon	7:00 PM		1.6" rainfall - Canal unblocked by Suffield DPW on 7/8		-224.40
07/15/14	Tue	4:00 PM	224.58		2.2	0.18
07/16/14	Wed	5:00 PM	224.50	1.2" rainfall during early morning		0.10
07/23/14	Tue	4:05 PM	224.42	No rainfall since last reading	0.2	0.02
07/25/14	Fri	5:30 PM	224.33	No rainfall since last reading	-0.8	-0.07
08/03/14	Sun	9:00 AM	224.33	2" rainfall since last reading		-0.07
08/04/14	Mon	11:35 AM	224.25	No rainfall since above	-1.8	-0.15
08/08/14	Thu	3:20 PM	224.25	No rainfall since last reading	-1.8	-0.15
08/13/14	Wed	3:35 PM	224.58	4.8" rainfall in 4 hours on 8/13 - major area flooding	2.2	0.18
09/03/14	Wed	3:40 PM	224.17	No major rainfall since last reading	-2.8	-0.23
09/27/14	Sat	9:30 AM	224.25	No major rainfall since last reading	-1.8	-0.15
10/15/14	Wed	8:30 AM	224.46	2.3" + 1.2" rainfall since last reading + beaver dam (cleared 10/9)	0.7	0.06
10/19/14	Sun	10:30 AM	224.58	0.5" rainfall overnight	2.2	0.18
10/24/14	Fri	10:00 AM	225.00	1.7" rainfall since last reading + multiple beaver dams	7.2	0.60
11/04/14	Tue	4:00 PM	224.38	No major rainfall since last reading	-0.2	-0.02
11/24/14	Mon	10:15 AM	224.33	Some rainfall	-0.8	-0.07
12/02/14	Tue	4:10 PM	224.38	Some rainfall & debris blockage at weir gates	-0.3	-0.03
12/17/14	Wed	11:25 AM	224.58	Following 2.5" rainfall & beaver dams cleared	2.2	0.18
12/19/14	Fri	3:25 PM	224.50	No rainfall since last reading	1.2	0.10
12/23/14	Tue	10:10 AM	224.46	Some rainfall since last reading - canal clear per Steve Legault	0.7	0.06
12/26/14	Fri	9:10 AM	224.46	Some rainfall since last reading - canal clear per Steve Legault	0.7	0.06
12/31/14	Wed	1:10 PM	224.40	No rainfall since last reading	0.0	0.00
04/06/15	Mon	9:50 AM	224.42	Ice nearly out - Estimate should be out by 4/10/15	0.2	0.02
05/03/15	Sun	5:45 PM	224.42	Some rainfall since last reading - canal clear per Mike DeBay	0.2	0.02

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
05/29/15	Fri	9:35 AM	224.42	Some rainfall since last reading - some beaver dams built Mike D	0.2	0.02
06/01/15	Mon	11:00 AM	224.50	1" rainfall since last reading	1.2	0.10
06/05/15	Fri	10:00 AM	224.66	1.7" more rainfall since last reading - Canal free flowing - Steve	3.1	0.26
06/06/15	Sat	2:25 PM	224.66	No rainfall since last reading	3.1	0.26
06/09/15	Tue	7:00 PM	224.71	1.6" rainfall since last reading	3.7	0.31
06/11/15	Thu	9:35 AM	224.71	No rainfall since last reading	3.7	0.31
06/16/15	Tue	10:00 AM	224.83	2.1" rainfall since last rainfall	5.2	0.43
06/17/15	Wed	10:25 AM	224.75	0.5" rainfall overnight	4.2	0.35
06/23/15	Wed	10:55 AM	224.75	1.1" rainfall since last rainfall	4.2	0.35
06/28/15	Sun	11:45 AM	224.79	1.8" rainfall since last rainfall	4.7	0.39
07/01/15	Wed	6:05 PM	224.79	1.0" rainfall since last rainfall; Beaver dam breached 6/29/15	4.7	0.39
07/02/15	Thu	5:20 PM	224.75	0.2" rainfall since last rainfall	4.2	0.35
07/07/15	Tue	3:30 PM	224.63	0.1" rainfall since last rainfall; Beaver dam removed 3/4 width	2.8	0.23
07/13/15	Mon	1:00 PM	224.38	No rainfall since last reading; Canal free flowing	-0.2	-0.02
07/20/15	Mon	11:20 AM	224.45	1.2" rainfall since last reading	0.6	0.05
07/22/15	Wed	11:15 AM	224.42	0.3" rainfall since last reading	0.2	0.02
08/05/15	Wed	3:25 PM	224.25	No rainfall since last reading	-1.8	-0.15
08/11/15	Tue	3:25 PM	224.33	1.4" rainfall since last reading	-0.8	-0.07
08/21/15	Fri	3:35 PM	224.29	No rainfall since last reading	-1.3	-0.11
08/23/15	Sun	9:30 AM	224.29	No rainfall since last reading	-1.3	-0.11
08/25/15	Tue	9:30 AM	224.25	0.2" rainfall since last reading	-1.8	-0.15
09/09/15	Wed	6:00 PM	224.33	1.8" rainfall since last rainfall	-0.8	-0.07
09/07/15	Thu	11:00 AM	224.33	No rainfall since above; Beaver dam holding back 6" breached	-0.8	-0.07
09/30/15	Wed	7:00 PM	224.42	2.6" rainfall over last 2 days	0.2	0.02
10/08/15	Thu	5:00 PM	224.40	0.2" rainfall since last rainfall	0.0	0.00
10/16/15	Fri	3:35 PM	224.42	No rainfall since last reading	0.2	0.02
10/19/15	Mon	4:15 PM	224.42	No rainfall since last reading	0.2	0.02
10/27/15	Tue	3:10 PM	224.33	Blockage at weir gates partially opened - No rainfall since last	-0.8	-0.07
10/29/15	Thu	8:00 AM	224.66	2.8" rainfall since last reading	3.1	0.26
11/03/15	Tue	6:45 AM	224.75	No rainfall since last reading	4.2	0.35
11/08/15	Sun	10:00 AM	224.75	3 dams breached	4.2	0.35
11/15/15	Mon	3:45 PM	224.42	No rainfall since last reading	0.2	0.02
11/17/15	Wed	7:30 AM	224.38	No rainfall since last reading	-0.2	-0.02
11/19/15	Thu	10:30 AM	224.25	No rainfall since last reading; Havy rain due this afternoon	-1.8	-0.15
12/02/15	Wed	2:25 PM	224.29	1.9" rainfall since last reading	-1.3	-0.11
12/22/15	Tue	3:35 PM	224.21	0.4" rainfall - Canal cleared 12/12	-2.3	-0.19
01/06/16	Wed	1:00 PM	224.25	0.5" rainfall since last reading	-1.8	-0.15
01/27/16	Wed	3:45 PM	224.25	0.2" rainfall since last reading	-1.8	-0.15
02/15/16	Mon	12:00 PM	224.25	Minor rainfall since above;	-1.8	-0.15
02/25/16	Thu	12:15 PM	224.63	2.4" rainfall 24 hrs; Ken: top batter board broken; water into lake	2.8	0.23
03/15/16	Tue	5:00 PM	224.50	Some rainfall since above	1.2	0.10
04/30/16	Sat	9:40 AM	224.66	Beaver dams over CT line blocking flow- Suffield DPW to handle	3.1	0.26
05/26/01	Thu	12:30 PM	224.66	Beaver dams removed by Suffield DPW	3.1	0.26

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
06/01/16	Wed	9:00 AM	224.33	Canal beaver dams at and north of level control removed	-0.8	-0.07
06/07/16	Tue	3:50 PM	224.25	Canal still clear & flowing well after 0.5" rainfall Sunday 6/5	-1.8	-0.15
06/15/16	Wed	3:00 PM	224.08	Mike D just adjusted gates up 2" as lake level too low & dropping	-3.8	-0.32
06/17/16	Fri	9:00 AM	224.25	Email report of "concerned citizens" adjusting gates downward	-1.8	-0.15
06/22/16	Wed	7:00 PM	224.08	0.5" rainfall; gates adjusted up 2" more to just trickle over one	-3.8	-0.32
07/19/16	Tue	3:25 PM	224.08		-3.8	-0.32
07/27/16	Wed	12:05 PM	224.00		-4.8	-0.40
08/04/16	Thu	3:20 PM	224.08	0.6" rainfall on 8/1	-3.8	-0.32
08/10/16	Wed	3:40 PM	224.08	~1" (varying significantly over town) on 8/10	-3.8	-0.32
09/02/16	Fri	3:45 PM	224.00	No rainfall since last reading	-4.8	-0.40
10/12/16	Wed	4:30 PM	223.75	0.5" rainfall since last reading	-7.8	-0.65
12/08/16	Thu	4:00 PM	223.80	~2.5" rainfall since last reading (large beaver dam).	-7.2	-0.60
02/28/17	Tue	3:35 PM	224.75	Canal beaver dams at and north of level control	4.2	0.35
03/30/17	Thu	6:00 PM	225.00	All beaver dams cleared 3/23/17 by Solitude. Some debris on gates	7.2	0.60
04/02/17	Sun	6:00 PM	225.17	Water ~6' over gates due to debris - DPW plans to clear Monday	9.2	0.77
04/03/17	Mon	7:00 AM	225.17	DPW clearing debris from gates; 1+" rain due Tues 4/4	9.2	0.77
04/06/17	Thu	5:30 PM	225.17	Canal free flowing - 1.2" rainfall 4/7 followed 1" rainfall 4/4	9.2	0.77
04/08/17	Sat	5:00 PM	225.17	Canal free flowing - No added rainfall	9.2	0.77
04/10/17	Mon	10:00 AM	225.08	Canal free flowing - No added rainfall	8.2	0.68
04/12/17	Wed	12:45 PM	225.00	Canal free flowing - No added rainfall	7.2	0.60
04/13/17	Thu	3:30 PM	224.92	Canal free flowing - No substantial added rainfall	6.2	0.52
04/20/17	Thu	1:30 PM	224.92	Canal free flowing	6.2	0.52
04/25/17	Tue	2:15 PM	224.79	Canal free flowing	4.7	0.39
04/26/17	Wed	11:30 AM	224.83	1.5" rainfall and canal free flowing	5.2	0.43
05/04/17	Thu	12:00 PM	224.63	Some rain since last reading	2.8	0.23
05/04/17	Thu	4:00 PM	224.58	No rain since last reading	2.2	0.18
05/11/17	Thu	5:00 PM	224.63	~1.5" rain since last reading; canal free flowing except by Phelps Rd	2.8	0.23
05/13/17	Sat	9:25 AM	224.58	No rain since last reading	2.2	0.18
05/14/17	Sun	7:15 AM	224.67	~1" rain since last reading	3.2	0.27
05/18/17	Thu	8:30 AM	224.50	No rain since last reading	1.2	0.10
05/18/17	Thu	8:00 PM	224.50	No rain since last reading	1.2	0.10
05/21/17	Sun	2:30 PM	224.50	No rain since last reading	1.2	0.10
05/24/17	Wed	3:40 PM	224.42	No rain since last reading	0.2	0.02
05/28/17	Sun	4:20 PM	224.54	~2" rain since last reading	1.7	0.14
06/19/17	Mon	4:00 PM	224.50	Some significant showers since last reading; major storm due later	1.2	0.10
06/22/17	Thu	3:00 PM	224.42	Some significant showers since last reading; major storm due later	0.2	0.02
07/20/17	Thu	12:15 PM	224.42	Some significant rainfall since last reading; canal clear	0.2	0.02
08/07/17	Mon	2:00 PM	224.50	Some significant showers since last reading; major storm due later	1.2	0.10
08/10/17	Thu	1:30 PM	224.30	No major storms since last reading	-1.2	-0.10
08/31/17	Thu	4:00 PM	224.25	No major storms since last reading	-1.8	-0.15
09/03/17	Sun	5:30 PM	224.25	No major storms since last reading	-1.8	-0.15
09/08/17	Fri	7:55 AM	224.33	~2" rain since last reading	-0.8	-0.07
09/30/17	Sat	11:00 AM	224.25	~1" rain since last reading	-1.8	-0.15

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
10/17/17	Tue	3:30 PM	224.25	No major storms since last reading	-1.8	-0.15
10/25/17	Wed	3:30 PM	224.58	~3.3" rainfall on 10/24	2.2	0.18
11/02/17	Thu	2:30 PM	224.83	Following ~1.5" rainfall on 10/25 & ~3.5" on 10/29 -10/30	5.2	0.43
11/09/17	Thu	4:00 PM	224.58	No major storms since last reading	2.2	0.18
11/21/17	Tue	8:00 AM	224.50	Following ~1" rainfall	1.2	0.10
01/30/18	Tue	3:50 PM	224.38	Following various snow & rainstorms: Ice on 95% of lake	-0.3	-0.03
02/05/18	Mon	9:50 AM	224.67	Following 1.2" rainfall on totally frozen ground & lake	3.2	0.27
02/17/18	Sat	12:35 PM	224.75	Following 1" rain and 6" snow on totally frozen ground & lake	4.2	0.35
02/25/18	Sun	4:00 PM	224.75	Ice out following warm rain and windy day	4.2	0.35
03/27/18	Tue	3:10 PM	224.50	No major storms since last reading	1.2	0.10
04/03/18	Tue	12:45 PM	224.50	4" of snow on 4/2	1.2	0.10
04/10/18	Tue	2:15 PM	224.63	After several rain and snow storms	2.7	0.22
04/23/18	Mon	10:25 AM	224.75	After 2.70" heavy rain an snow storms	4.2	0.35
04/26/18	Thu	4:00 PM	224.75	After !.5" heavy rain on 4/24	4.2	0.35
05/03/18	Thu	11:30 AM	224.63	No major rainfall since last reading	2.8	0.23
05/08/18	Tue	4:15 PM	224.63	No major rainfall since last reading	2.8	0.23
05/30/18	Wed	4:15 PM	224.63	Beaver dam clogging canal; no major rainfall since last reading	2.8	0.23
06/02/18	Sat	8:00 AM	224.63	Beaver dams & weir gates debris removed by CRC/LMC by noon - Flow went from estimated 200KGPD to 2MGPD after clearing	2.8	0.23
06/05/18	Tue	11:10 AM	224.50	Following ~1.1" rainfall on 6/4	1.2	0.10
06/08/18	Fri	9:25 AM	224.42	No major rainfall since last reading	0.2	0.02
06/11/18	Mon	12:15 PM	224.38	No major rainfall since last reading	-0.2	-0.02
06/15/18	Fri	11:15 AM	224.33	No major rainfall since last reading	-0.8	-0.07
06/20/18	Wed	3:15 PM	224.42	Following ~1.5" rainfall on 6/18	0.2	0.02
06/26/18	Wed	10:00 AM	224.38	Following 1.8 - 2+" rainfall on 6/24; Canal just opened by Solitude	-0.2	-0.02
06/28/18	Thu	2:00 PM	224.63	Following 2.2" rainfall on 6/27-6/28-Beavers built new dam by gates	2.8	0.23
07/10/18	Tue	3:30 PM	224.42	Some beaver dam activity - no major rainfall since last reading	0.2	0.02
07/16/18	Mon	4:00 PM	224.33	Beaver dam totally blocking canal	-0.8	-0.07
07/20/18	Fri	2:00 PM	224.50	Beaver dam 1/2 removed by DPW - 2.1" rain Tuesday 7/17	1.2	0.10
07/26/18	Thu	2:10 PM	224.75	Following 3.5" rainfall	4.2	0.35
08/01/18	Wed	9:30 AM	224.50	No major rainfall since last reading; Beaver dam is back	1.2	0.10
08/07/18	Tue	11:20 AM	224.58	Following 1.7" rainfall since last reading	2.2	0.18
08/21/18	Tue	3:35 PM	224.58	Following 2.1" rainfall since last reading	2.2	0.18
08/24/18	Fri	11:15 AM	224.58	No rainfall since last reading; beaver dam growing by weir gates	2.2	0.18
08/29/18	Wed	10:00 AM	224.75	~8" drop at beaver dam on canal - Removed around 1:00 PM	4.2	0.35
08/31/18	Fri	12:30 PM	224.50	Water flowing normally in Canal	1.2	0.10
09/04/18	Wed	3:10 PM	224.42	Water flowing normally in Canal; No rainfall since last reading	0.2	0.02
09/07/18	Fri	3:25 PM	224.38	Water flowing normally in Canal: 0.25" rainfall since last reading	-0.2	-0.02
09/11/18	Tue	9:50 AM	224.42	Following ~1.9" rainfall last night	0.2	0.02
09/18/18	Wed	10:30 AM	224.50	Following 2+ inches rainfall yesterday	1.2	0.10
09/23/18	Sun	10:00 AM	224.42	No major rainfall since last reading	0.2	0.02
09/26/18	Wed	11:00 AM	224.50	Following 2" rainfall yesterday; Great Brook 6" over lake level	1.2	0.10
09/27/18	Thu	11:00 AM	224.58	Following 1" rainfall 9/26; Great Brook now 7" over lake level	2.2	0.18

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
10/03/18	Wed	2:00 PM	224.58	Following 2" rainfall 10/2; Great Brook now 8" over lake level	2.2	0.18
10/10/18	Wed	6:00 PM	224.50	Following ~1" rainall on 10/5 - 10/8	1.2	0.10
10/15/18	Mon	2:25 PM	224.63	Following ~2.2" rainfall on 10/11	2.8	0.23
10/19/18	Fri	9:30 AM	224.50	No significant rainfall since last reading; Suffield removing beaver dam	1.2	0.10
10/23/18	Tue	11:00AM	224.42	No significant rainfall since last reading;	0.2	0.02
10/26/18	Fri	3:30 PM	224.42	No significant rainfall since last reading	0.2	0.02
10/29/18	Mon	1:15 PM	224.63	Following ~1.7" rainfall since last reading	2.8	0.23
11/06/18	Tue	1:30 PM	225.00	Following 2.5" rainfall on 11/3 and raining today; Beaver dam in CT; Suffield DPW plans to remove	7.2	0.60
11/07/18	Wed	2:00 PM	225.00	Some rainfall since last reading; Heavy rains expected Friday 11/9 & Suffield DPW backhoe down	7.2	0.60
11/08/18	Thu	2:00 PM	225.00	Beaver dam in CT part is holding back ~12" water	7.2	0.60
11/09/18	Fri	1:50 PM	224.92	Heavy rain due late this afternoon	6.2	0.52
11/21/18	Wed	1:50 PM	225.00	Beaver dam to be removed by Suffield DPW today	7.2	0.60
11/29/18	Thu	9:20 AM	225.00	Following ~1.5" heavy rainfall on Monday 11/26.	7.2	0.60
11/30/18	Fri	2:35 PM	224.95	Following ~0.5" rainfall	6.6	0.55
12/04/18	Tue	9:30 AM	224.92	No rainfall since last reading	6.2	0.52
12/05/18	Wed	2:20 PM	224.92	No rainfall since last reading; water flowing freely down canal to Phelps Rd per MD	6.2	0.52
12/07/18	Fri	11:00 AM	224.92	No rainfall since last reading; water flowing freely down canal to Phelps Rd per MD	6.2	0.52
12/10/18	Mon	3:00 PM	224.88	No rainfall since last reading; water flowing freely down canal to Phelps Rd per MD	5.8	0.48
12/12/18	Wed	2:00 PM	224.80	No rainfall since last reading; water flowing freely down canal to Phelps Rd per MD; 1 gate 2" down	4.8	0.40
12/19/18	Wed	1:10 PM	224.71	No rainfall since last reading; water flowing freely down canal to Phelps Rd per MD; 1 gate 2" down	3.7	0.31
12/27/18	Thu	8:30 AM	224.92	~3.5" rainfall on 12/21; no rain since	6.2	0.52
01/02/19	Wed	12:15 PM	224.92	Relatively small storms since 12/21	6.2	0.52
01/05/19	Fri	1:30 PM	224.88	No significant rainfall since 1.2; Per Mike DeBay, flow clear thru and after Hungary Rd crossing	5.8	0.48
01/07/19	Mon	11:00 AM	224.88	~1" rainfall on 1/4; clear flow on Canal; just lots of water in watershed	5.8	0.48
01/10/19	Thu	11:00 AM	224.92	~0.7" rainfall since last reading.	6.2	0.52
01/16/19	Wed	11:00 AM	224.75	No significant rainfall since last reading; Per Mike D flowing well	4.2	0.35
01/18/19	Fri	3:30 PM	224.75	No significant rainfall since last reading; Ice on lake	4.2	0.35
02/08/19	Fri	2:00 PM	224.88	Several snowstorms (~20") and some rainfall since last reading	5.8	0.48
03/03/19	Sun	12:15 PM	224.92	More snow and some rainfall since last reading	6.2	0.52
03/25/19	Mon	1:30 PM	224.92	9" snow & XX inches of rainfall since last reading - Canal flowing well per Mike D.	6.2	0.52
03/27/19	Wed	12:30 PM	224.92	No rainfall since last reading	6.2	0.52
04/01/19	Mon	1:50 PM	224.75	No rainfall since last reading	4.2	0.35
04/03/19	Wed	3:00 PM	224.75	No rainfall since last reading	4.2	0.35
04/09/19	Tue	11:00 AM	224.67	0.3" rainfall since last reading	3.2	0.27
04/11/19	Thu	10:00 AM	224.50	No rainfall since last reading	1.2	0.10
04/22/19	Mon	11:00 AM	224.83	~1.7" rainfall on 4/20	5.2	0.43
04/24/19	Wed	10:30 AM	224.92	~1" rainfall on 4/22	6.2	0.52
04/25/19	Thu	10:00 AM	224.83	No rainfall since last reading	5.2	0.43
04/27/19	Sat	2:15 PM	225.08	~2.5" rainfall on 4/26 - 4/27	8.2	0.68
04/29/19	Mon	10:30 AM	225.08	~0.2" rainfall since last reading	8.2	0.68
05/01/19	Wed	3:10 PM	225.08	~1" rainfall since last reading	8.2	0.68
05/03/19	Fri	2:00 PM	225.00	~0.5" rainfall since last reading	7.2	0.60
05/06/19	Mon	1:50 PM	225.00	~1.5" rainfall since last reading	7.2	0.60

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
05/07/19	Tue	2:00 PM	224.88	No rainfall since last reading	5.8	0.48
05/08/19	Wed	3:00 PM	224.83	~0.5" rainfall since last reading	5.2	0.43
05/10/19	Fri	3:10 PM	224.83	~0.1" rainfall since last reading	5.2	0.43
05/11/19	Sat	9:00 AM	224.92	~1.9" rainfall since last reading	6.2	0.52
05/13/19	Mon	1:00 PM	224.92	~2" rainfall since last reading	6.2	0.52
05/14/19	Tue	12:00 PM	225.00	~1.1" rainfall since last reading; Water roaring over gates per Mike D	7.2	0.60
05/16/19	Thu	1:30 PM	224.92	No rainfall since last reading	6.2	0.52
05/19/19	Sun	9:00 AM	224.75	No rainfall since last reading	4.2	0.35
05/20/19	Mon	11:00 AM	224.83	~1.5" rainfall since last reading	5.2	0.43
05/21/19	Tue	10:00 AM	224.83	No rainfall since last reading	5.2	0.43
05/22/19	Wed	3:10 PM	224.75	No rainfall since last reading	4.2	0.35
05/26/19	Sun	12:00 PM	224.66	No rainfall since last reading	3.1	0.26
05/27/19	Mon	4:00 PM	224.63	No rainfall since last reading	2.8	0.23
05/29/19	Wed	11:00 AM	224.66	~1" rainfall since last reading	3.1	0.26
05/31/19	Sun	2:15 PM	224.54	No rainfall since last reading	1.7	0.14
06/05/19	Wed	9:00 AM	224.54	No major rainfall since last reading	1.7	0.14
06/07/19	Fri	11:15 AM	224.38	No rainfall since last reading	-0.2	-0.02
06/10/19	Mon	11:45 AM	224.50	No rainfall since last reading	1.2	0.10
06/11/19	Tue	2:15 PM	224.50	~1" rainfall since last reading	1.2	0.10
06/12/19	Wed	2:45 PM	224.38	No rainfall since last reading	-0.2	-0.02
06/14/19	Fri	2:00 PM	224.38	No significant rainfall since last reading	-0.2	-0.02
06/26/19	Wed	3:10 PM	224.33	~0.4" rainfall since last reading	-0.8	-0.07
07/01/19	Mon	1:30 PM	224.42	No significant rainfall since last reading	0.2	0.02
07/05/19	Fri	8:00 AM	224.33	No rainfall since last reading	-0.8	-0.07
07/08/19	Mon	1:30 PM	224.33	~1.1" rainfall on 7/6/19	-0.8	-0.07
07/10/19	Wed	3:10 PM	224.38	No rainfall since last reading	-0.2	-0.02
07/11/19	Thu	1:45 PM	224.38	No significant rainfall since last reading	-0.2	-0.02
07/12/19	Fri	4:00 PM	224.38	No rainfall since last reading	-0.2	-0.02
07/15/19	Mon	10:45 AM	224.33	No rainfall since last reading	-0.8	-0.07
07/18/19	Thu	1:00 PM	224.42	~1.5" rainfall on 7/17	0.2	0.02
07/30/19	Tue	10:45 AM	224.42	Several rainstorms since 7/18	0.2	0.02
08/02/19	Fri	11:20 AM	224.42	~1.5" rainfall on 7/31	0.2	0.02
08/14/19	Wed	3:00 PM	224.38	~1.5" rainfall on 8/7	-0.2	-0.02
08/26/19	Mon	1:00 PM	224.42	~2" rainfall since last reading; Debris built up in front of weir gates; DPW will remove	0.2	0.02
09/03/19	Tue	3:00 PM	224.58	~2.2" rainfall on 9/2; Debris at gates removed by DPW on 8/27	2.2	0.18
09/06/19	Fri	1:10 PM	224.58	~2" rainfall on 9/4	2.2	0.18
09/16/19	Mon	8:50 AM	224.50	~1" rainfall on 9/28	1.2	0.10
10/02/19	Wed	3:00 PM	224.33	~1" rainfall since last reading; Beaver dam near Palmer Brook removed by DPW	-0.8	-0.07
10/07/19	Mon	2:50 PM	224.29	No significant rainfall since last reading	-1.3	-0.11
10/17/19	Thu	11:00 AM	224.58	4.75" rainfall on 10/16 PM - 10/17 AM	2.2	0.18
10/23/19	Wed	11:50 AM	224.66	1.75" rainall since last reading	3.1	0.26
10/29/19	Tue	3:00 PM	224.66	0.75" rainfall since last reading	3.1	0.26
11/04/19	Mon	1:00 PM	224.42	0.50" rainfall since last reading	0.2	0.02

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
11/14/19	Thu	1:00 PM	224.25	No significant rainfall since last reading	-1.8	-0.15
12/16/19	Mon	11:00 AM	224.83	2.5" rain since above reading - in one storm + snow melt from ~18" on ground	5.2	0.43
12/23/19	Mon	12:30 PM	224.66	No significant events since above reading	3.1	0.26
01/08/20	Wed	3:45 PM	224.75	No significant events since above reading	4.2	0.35
01/15/20	Wed	4:00 PM	224.75	No significant events since above reading	4.2	0.35
01/31/20	Fri	10:00 AM	224.83	~5" snow/sleet since above reading	5.2	0.43
02/05/20	Wed	3:40 PM	224.71	No significant events since above reading	3.7	0.31
03/03/20	Tue	1:00 PM	224.33	Some rain events since last reading	-0.8	-0.07
03/30/20	Mon	1:15 PM	224.50	Some rain events since last reading	1.2	0.10
04/03/20	Fri	1:00 PM	224.50	Some rain events since last reading	1.2	0.10
05/01/20	Fri	!0:30 AM	224.63	Est. 3" - 4" rainfall since last reading	2.8	0.23
05/04/20	Mon	9:30 AM	224.50	No rainfall since last reading	1.2	0.10
05/13/20	Wed	2:00 PM	224.42	No significant events since above reading	0.2	0.02
05/23/20	Sat	10:30 AM	224.25	Gates raised ~2" 5/24 so ~1" water going over one (due to low water level)	-1.8	-0.15
06/26/20	Fri	1:00 PM	224.00	Drought plus a few spotty storms	-4.8	-0.40
06/29/20	Mon	2:00 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
07/13/20	Mon	1:00 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
07/14/20	Tue	3:00 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
08/03/20	Mon	7:20 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
08/12/20	Tue	12:40 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
08/25/20	Tue	12:40 PM	224.16	Drought plus a few spotty storms	-2.9	-0.24
09/04/20	Fri	9:50 AM	224.16	~2.2" rainfall on 9/2 & prior smaller storms	-2.9	-0.24
09/24/20	Thu	11:00 AM	224.00	East stem found at 8" -- Reset to 10"	-4.8	-0.40
10/02/20	Fri	1:00 PM	224.16	Drought plus a few spotty storms	-2.9	-0.24
10/17/20	Sat	3:00 PM	224.33	Drought plus a few spotty storms	-0.8	-0.07
10/27/20	Tue	3:00 PM	224.25	Drought plus a few spotty storms	-1.8	-0.15
11/08/20	Sun	11:30 AM	224.42	Drought plus a few spotty storms	0.2	0.02
11/25/20	Wed	1:00 PM	224.63	Drought plus a few spotty storms	2.8	0.23
12/01/20	Tue	2:30 PM	224.75	Drought plus a few spotty storms	4.2	0.35
12/14/20	Mon	2:00 PM	224.63	Drought plus a few spotty storms	2.8	0.23
12/30/20	Wed	10:00 AM	224.75	12" - 14" dry snow on 12/17 + 2.3" heavy rain on 12/24; Water flowing unrestricted on Canal Brook	4.2	0.35
03/25/21	Thu	1:00 PM	224.53	Following winter and ice out; Flowing well over weir gates - MD	1.6	0.13
04/05/21	Mon	1:30 PM	224.66	~6" water flowing over gates per Mike D.	3.1	0.26
04/12/21	Mon	9:25 AM	224.53	No significant rainfall	1.6	0.13
04/21/21	Wed	1:00 PM	224.66	Water free-flowing over weir gates per Mike D.	3.1	0.26
05/05/21	Wed	2:00 PM	224.71	~2.5" rain since last reading, Water free-flowing over weir gates per Mike D.	3.7	0.31
06/01/21	Tue	2:30 PM	224.92	Heavy rainfall events: 2.1" on 5/27, 3.2" on 5/29, 1.8" on 5/30.	6.2	0.52
06/06/21	Mon	12:00 PM	224.75	No significant rainfall since above. Water free-flowing over weir gates per Mike D.	4.2	0.35
06/23/21	Thu	12:00 PM	224.58	1.1" rainfall on 6/14; Large beaver dam in Suffield part blocking flow	2.2	0.18
07/06/21	Tue	1:30 PM	224.83	1.5" rainfall 6/29 - 6/30; 4" rainfall 7/2 - 7/4; Large beaver dam in Suffield part blocking flow	5.2	0.43
07/08/21	Thu	11:00 AM	225.00	1.1" rainfall on 7/6; 1.1" rainfall on 7/7; Large beaver dam in Suffield part blocking flow	7.2	0.60
07/10/21	Sat	7:45 AM	225.08	2.6" rain on 7/8	8.2	0.68
07/12/21	Mon	1:00 PM	225.17	0.4" rain 7/9; 2.4" rain 7/10 - 7/12	9.2	0.77

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
07/14/21	Wed	2:00 PM	225.13	Water free-flowing over weir gates per Mike D.	8.8	0.73
07/23/21	Fri	3:00 PM	224.83	0.2" rain 7/13; 0.4" rain 7/14	5.2	0.43
07/26/21	Mon	7:30 AM	224.83	0.2" rain since 7/23	5.2	0.43
07/27/21	Tue	11:00 AM	224.83		5.2	0.43
07/28/21	Wed	10:30 AM	224.83	0.7" rain 7/27	5.2	0.43
07/29/21	Thu	12:00 PM	224.63	No major rain since 7/27	2.8	0.23
07/31/21	Sat	9:15 AM	224.54	0.5" rain 7/29 : US Weather Srvice reported 12.7" rainfall July 2021	1.7	0.14
08/01/21	Sun	8:45 AM	224.54	No significant rainfall	1.7	0.14
08/02/21	Mon	1:20 PM	224.50	Mike D raised gates upward 1/2"	1.2	0.10
08/03/21	Tue	1:45 PM	224.50		1.2	0.10
08/04/21	Wed	1:55 PM	224.46		0.7	0.06
08/05/21	Thu	10:30 AM	224.42		0.2	0.02
08/06/21	Fri	11:10 AM	224.33	Mike D raised gates to stop level drop - Target is nominal 224.5' MSL	-0.8	-0.07
08/07/21	Sat	8:40 AM	224.38		-0.2	-0.02
08/08/21	Sun	8:30 AM	224.42		0.2	0.02
08/09/21	Mon	9:50 AM	224.42		0.2	0.02
08/10/21	Tue	3:00 AM	224.38	Mike D had problem reading at water due to slime on ss plate	-0.2	-0.02
08/10/21	Tue	3:00 PM	224.42	RG measured "down" to water surface from visible top line	0.2	0.02
08/13/21	Fri	9:30 AM	224.50	~0.5" rainfall on 8/12	1.2	0.10
08/16/21	Mon	9:00 AM	224.38	No significant rainfall	-0.2	-0.02
08/17/21	Tue	9:00 AM	224.42	No rainfall	0.2	0.02
08/19/21	Thu	4:50 PM	224.67	~3.5" rainfall on 8/19; Beaver dam in CT part breached by heavy flow down canal	3.2	0.27
08/22/21	Sun	9:40 AM	224.71	Light rain; CT beaver dams washed out; Great flow	3.7	0.31
08/23/21	Mon	9:00 AM	224.96	4.0" heavy rainfall Sunday	6.7	0.56
08/24/21	Tue	7:15 AM	225.21	2.5" on/off heavy rain Monday; Sunny today	9.7	0.81
08/25/21	Wed	3:00 PM	225.17	No rainfall; Free flowing down canal; Water in from Palmer Brook & swamp	9.2	0.77
08/26/21	Thu	12:30 PM	225.12	No rainfall; Free flowing down canal; Water in from Palmer Brook & swamp	8.6	0.72
08/27/21	Fri	10:15 AM	225.08	No rainfall; Free flowing down canal; Water in from Palmer Brook & swamp	8.2	0.68
08/31/21	Tue	8:20 AM	224.91	Small rainfall; Beaver dam in making but still flowing down canal; Heavy rain from Ida predicted for 9/2	6.1	0.51
09/01/21	Wed	6:50 AM	224.83	No rainfall yet; Beaver dam in MA part holding back ~4 -6" water; Ida 4+" rain predicted 9/1 - 9/2	5.2	0.43
09/02/21	Thu	8:00 AM	225.25	~6.5" rainfall from Ida on 9/1 - 9/2	10.2	0.85
09/02/21	Thu	12:00 PM	225.33	**Major water flowing into lake from Great Brook; DPW/divers trying to stop at culverts- NO WAKE**	11.2	0.93
09/02/21	Thu	7:20 PM	225.42	**Major water flowing into lake from Canal Brook backfed from Goose Pond - NO WAKE**	12.2	1.02
09/03/21	Fri	6:30 AM	225.67	**Minimal flow into lake from Great Brook; Large flow into lake from Canal Brook-NO BOATING**	15.2	1.27
09/03/21	Fri	12:30 PM	225.50	**Flowing out of Canal now - NO BOATING**	13.2	1.10
09/04/21	Sat	8:00 AM	225.42	**Flowing out of Canal now - NO BOATING**	12.2	1.02
09/05/21	Sun	8:30 AM	225.29	**Flowing out of Canal now; Railroad bridge is bottleneck with large rocks in it - NO BOATING**	10.7	0.89
09/06/21	Mon	8:30 AM	225.23	**Flowing out of Canal now; Railroad bridge is bottleneck with large rocks in it - NO BOATING**	10.0	0.83
09/07/21	Tue	8:00 AM	225.13	**Lots of docks still partially under water along with water up on shoreline - NO BOATING**	8.8	0.73
09/08/21	Wed	9:45 AM	225.05	**Lots of docks still partially under water along with water up on shoreline - NO BOATING**	7.8	0.65
09/09/21	Thu	7:30 AM	224.92	**Some docks still partially under water along with water up on shoreline - NO BOATING**	6.2	0.52
09/10/21	Fri	7:40 AM	224.88	**0.2 " rain Lvel high but meets current NO WAKE (falling) per protocol open lake to NO WAKE?**	5.8	0.48
09/10/21	Fri	5:10 PM	224.83	**Still falling; Recommended to Harbormaster that we open up to all boating; Concured by Rhett**	5.2	0.43

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
09/11/21	Sat	8:10 AM	224.75	**Ramps opened 5:30 PM Friday; Level still falling and free flowing**	4.2	0.35
09/12/21	Sun	8:50 AM	224.71	Lake level still falling	3.7	0.31
09/13/21	Mon	9:00 AM	224.66	Lake level still falling	3.1	0.26
09/14/21	Tue	1:45 PM	224.58	Lake level still falling; Rain in forecast for 9/15 - 9/16	2.2	0.18
09/15/21	Wed	8:15 AM	224.50	Lake level still falling; Rain in forecast for 9/15 - 9/16	1.2	0.10
09/16/21	Thu	9:45 AM	224.50	Lake level holding steady; Only minor rainfall in Southwick; 0.2" rain 9/15 - 9/16	1.2	0.10
09/17/21	Fri	9:30 AM	224.50	Lake level holding steady; good flow through gates per MD; Saturated ground?	1.2	0.10
09/18/21	Sat	7:45 AM	224.46	Lake level falling slowly; good flow through gates per MD; Saturated ground?	0.7	0.06
09/19/21	Sun	9:15 AM	224.40	Lake level falling slowly; good flow through gates per MD; Saturated ground?	0.0	0.00
09/20/21	Mon	9:00 AM	224.38	Lake level falling slowly; good flow through gates per MD; Saturated ground?	-0.2	-0.02
09/21/21	Tue	11:20 AM	224.33	Lake level falling slowly; good flow through gates per MD; Goose Pond high	-0.8	-0.07
09/22/21	Wed	9:00 AM	224.29	Gates raised to only have a slight outflow by Scotty & Mike D at ~3:00 PM	-1.3	-0.11
09/23/21	Thu	3:20 PM	224.29		-1.3	-0.11
09/24/21	Fri	10:30 AM	224.38	~2" heavy rain overnight into morning	-0.2	-0.02
09/25/21	Sat	10:30 AM	224.38	Lake level holding	-0.2	-0.02
09/26/21	Sun	9:15 AM	224.38	Lake level holding	-0.2	-0.02
09/27/21	Mon	9:30 AM	224.33	Slowly dropping	-0.8	-0.07
09/28/21	Tue	9:30 AM	224.33	Very slowly dropping	-0.8	-0.07
09/29/21	Wed	9:30 AM	224.30	Smidge under 224 + 4" per MD	-1.2	-0.10
09/30/21	Thu	9:30 AM	224.29		-1.3	-0.11
10/01/21	Fri	9:00 AM	224.29		-1.3	-0.11
10/02/21	Sat	9:00 AM	224.29		-1.3	-0.11
10/03/21	Sun	9:00 AM	224.29		-1.3	-0.11
10/06/21	Wed	10:00 AM	224.50	Heavy rain during 10/4 night and 10/5 day, ~3.5" total Monday thru Tuesday	1.2	0.10
10/07/21	Thu	10:00 AM	224.50		1.2	0.10
10/08/21	Fri	9:30 AM	224.46		0.7	0.06
10/10/21	Sun	10:00 AM	224.40		0.0	0.00
10/11/21	Mon	10:00 AM	224.40		0.0	0.00
10/12/21	Tue	11:00 AM	224.38		-0.2	-0.02
10/14/21	Thu	11:00 AM	224.38		-0.2	-0.02
10/16/21	Sat	4:30 PM	224.33		-0.8	-0.07
10/19/21	Tue	11:00 AM	224.33	Holding steady	-0.8	-0.07
10/21/21	Thu	3:50 PM	224.33	Holding steady	-0.8	-0.07
10/27/21	Wed	2:30 PM	224.50	~2.75" rain 10/26 - 10/27	1.2	0.10
10/30/21	Sat	10:00AM	224.54	~2.1" rain 10/29 - 10/30	1.7	0.14
11/02/21	Tue	11:00 AM	224.58	No rain since	2.2	0.18
11/04/21	Thu	11:00 AM	224.58	No rain since; Mike D dropped gates 1" to increase floe out	2.2	0.18
11/15/21	Mon	10:00 AM	224.71	Following 2.5+" heavy rain on Fri 11/12.	3.7	0.31
11/21/21	Sun	2:00 PM	224.58	Beaver dams (4) cleared out by Solitude 11/18 & 11/19; Some floating debris at weir gates.	2.2	0.18
11/26/21	Fri	1:00 PM	224.50	Debris cleared from in front of weir gates by Scotty w/ Mike & Malcolm to assist	1.2	0.10
11/29/21	Mon	10:00 AM	224.33	Some water coming by Berkshire Ave batter boards - being replaced by CCI	-0.8	-0.07
12/01/21	Wed	11:15 AM	224.17	3' of muck & debris in front of western gate	-2.8	-0.23
12/06/21	Mon	3:30 PM	224.25	Scotty raised east side weir gate some to slow down outflow and get back to 224.3' MSL	-1.8	-0.15

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
12/16/21	Thu	10:30 PM	224.17	Level holding at 224.17	-2.8	-0.23
12/21/21	Tue	11:00 AM	224.21	Unrestricted flow in Canal Brook	-2.3	-0.19
12/31/21	Fri	12:00 PM	224.33	Weir gates stable since 12/17	-0.8	-0.07
01/06/22	Thu	12:00 PM	224.33	Weir gates stable since 12/17	-0.8	-0.07
01/20/22	Thu	11:00 AM	224.25	Weir gates stable since 12/17 - ~5" snow on 1/16 - N & S culverts roof to water measured 7' - 7"	-1.8	-0.15
01/29/22	Sat	11:00 AM	224.33	~7" snowfall; very windy & cold (10 - 15°F)	-0.8	-0.07
02/12/22	Sat	1:30 PM	224.42	Rain, snow last few days after near zero temps	0.2	0.02
03/14/22	Mon	10:00 AM	224.38	4" snow on 3/10 + 2" snow on 3/12	-0.2	-0.02
03/21/22	Mon	9:00 AM	224.29	~1" rainfall 3/19	-1.3	-0.11
03/30/22	Wed	9:00 AM	224.41	Some rainfall since last reading & gates raised ~2"	0.1	0.01
04/06/22	Wed	3:00 PM	224.46	~2.5" rainfall on 3/31 - 4/1; Eric recommends raising gates;	0.7	0.06
04/10/22	Sun	2:30 PM	224.67	~3.3" rainfall on 4/7 - 4/8; East gate lowered 1" to release some of the excess water	3.2	0.27
04/12/22	Tue	11:00 AM	224.63	Some minor rainfall	2.8	0.23
04/25/22	Mon	3:00 PM	224.58	1.8" rainfall on 4/18 - 4/19	2.2	0.18
05/18/22	Wed	3:30 PM	224.29	~1" rainfall on 5/16/22; Otherwise minimal rainfall in last few weeks	-1.3	-0.11
05/20/22	Fri	12:00 PM	224.29	No appreciable rainfall since last reading	-1.3	-0.11
05/24/22	Tue	1:00 PM	224.25	0.5" rainfall since last reading	-1.8	-0.15
06/04/22	Sat	9:00 AM	224.33	2.5" rain on 5/28	-0.8	-0.07
06/23/22	Thu	12:00 noon	224.25	1.6" rainfall since last reading	-1.8	-0.15
06/29/22	Wed	11:00 AM	224.25	0.2" rainfall since last reading	-1.8	-0.15
07/11/22	Mon	11:00 AM	224.17	~1.5" rainfall on 7/1	-2.8	-0.23
07/14/22	Thu	10:45 AM	224.25	~1.8" rainfall on 7/12 + 0.4" rainfall on 7/13 - Gates raised ~0.5" on 7/11 (MD)	-1.8	-0.15
07/19/22	Tue	11:00 AM	224.29	~1.5" rainfall on 7/18	-1.3	-0.11
07/28/22	Thu	12:00 noon	224.21	No appreciable rainfall since last reading	-2.3	-0.19
08/16/22	Tue	4:00 PM	224.16	No appreciable rainfall since last reading; Almost no flow over gates; raised 1"	-2.9	-0.24
09/07/22	Wed	3:30 PM	224.29	2.8" + 5.4" (9/5-9/6) rainfall since last reading	-1.3	-0.11
09/20/22	Tue	4:00 PM	224.17	0.4" rainfall since last reading; Very low flow over gates - MD	-2.8	-0.23
09/23/22	Fri	11:00 AM	224.25	2.0" rainfall 9/22	-1.8	-0.15
10/06/22	Thu	11:40 AM	224.38	4.7" rainfall 10/4 - 10/5	-0.2	-0.02
10/20/22	Thu	10:00 AM	224.25	2.5" rainfall since last reading; Very low flow over gates - MD	-1.8	-0.15
11/07/22	Mon	12:30 PM	224.38	1" rainfall since last reading; Good flow over gates cleared by DPW - MD	-0.2	-0.02
12/06/22	Tue	11:45 AM	224.33	Some rainfall since last reading. Good flow from weir gates	-0.8	-0.07
01/09/23	Mon	6:00 PM	224.54	Some significant rainfall since last reading; gates cleared by DPW and volunteers	1.7	0.14
03/09/23	Tue	1:30 PM	224.58	Some beaver dam activity - no major rainfall since last reading	2.2	0.18
03/27/23	Sat	11:50 AM	224.38	Some beaver dam activity - no major rainfall since last reading	-0.2	-0.02
04/14/23	Fri	10:45 AM	224.25	Flowing freely over gates; Gates raised ~1" & monitor	-1.8	-0.15
04/24/23	Mon	9:45 AM	224.67	~7" heavy rainfall on 4/23; localized flooding around Town; Great Brook ~28" above lake level. Canal & adjacent Goose Pond swamp reverse flowing into Congamond.	3.2	0.27
04/26/23	Wed	3:40 PM	224.67	Outflow now strong; Goose Pond still high and swamp still reverse flowing into Congamond; Gates raised 2" to hopefully have water kevel back to nominal after flood waters reside	3.2	0.27
04/28/23	Fri	11:40 AM	224.58	Canal outflow stilll strong; Great Brook at Berkshire Ave weir gates still ~16" above lake level	2.2	0.18
05/03/23	Wed	1:00 PM	224.75	~4.5" rain 4/1 - 4/3; Outflow strong; Rail Trail northernmost cross-culvert clogged - DPW to fix	4.2	0.35
05/08/23	Mon	3:00 PM	224.63	Excellent Canal Brook flow out of Congamond	2.8	0.23

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
05/10/23	Wed	2:40 PM	224.54	No recent rainfall and still heavy flow out of Congamond	1.7	0.14
05/15/23	Mon	10:30 AM	224.38	No recent rainfall and still heavy flow out of Congamond - gates raised to dlow town outflow	-0.2	-0.02
05/16/23	Tue	9:40 AM	224.29	No rainfall and still falling and flow out of Congamond; Eric suggests raising gates to stop outflow	-1.3	-0.11
05/17/23	Wed	9:00 AM	224.29	No rainfall and gates raised more; level finally stabilizing	-1.3	-0.11
05/24/23	Wed	10:30 AM	224.54	Following ~2.2" rainfall on 5/20	1.7	0.14
06/05/23	Mon	10:15 AM	224.33	~0.2" rainfall on 5/24	-0.8	-0.07
07/03/23	Mon	10:00 AM	224.42	~1.1" rainfall 6/19-6/24; 2.2" rainfall 7/2-7/3 - Beaver dams removed & rebuilt overnight	0.2	0.02
07/05/23	Wed	9:00 AM	224.54	3.1" rainfall 7/3 - 7/4; Water flowing good in Canal	1.7	0.14
07/08/23	Sat	11:00 AM	224.50	Gates lowered 2" due to predicted heavy rainfall for Monday 7/10	1.2	0.10
07/11/23	Tue	1:30 PM	224.54	~3" rainfall on 7/10; good flow over gates but beavers busy north of gates	1.7	0.14
07/13/23	Thu	3:00 PM	224.46	Good flow over gates; rain expected later today and thru weekend	0.7	0.06
07/17/23	Mon	9:00 AM	224.67	~2.5" rainfall 7/14 & 2.8" on 7/16. Clear today	3.2	0.27
07/24/23	Mon	9:00 AM	224.67	~1.5" rainfall; good outflow	3.2	0.27
07/25/23	Tue	9:20 AM	224.63	Good outflow	2.8	0.23
07/26/23	Wed	9:00 AM	224.71	~1.5" rainfall; Good outflow	3.7	0.31
07/27/23	Thu	9:00 AM	224.67	~1.5" rainfall; Good outflow	3.2	0.27
07/28/23	Fri	9:00 AM	224.79	~2" rainfall; Good outflow	4.7	0.39
07/29/23	Sat	9:00 AM	224.75	~1.5" rainfall; Good outflow	4.2	0.35
07/30/23	Sun	9:00 AM	224.75	No rainfall; Good outflow	4.2	0.35
07/31/23	Mon	10:00 AM	224.71	No rainfall; Good outflow	3.7	0.31
08/02/23	Wed	3:15 PM	224.63	No rainfall; Good outflow	2.8	0.23
08/03/23	Thu	12:15 PM	224.58	No rainfall; Good outflow: Heavy rainfall predicted for 8/4	2.2	0.18
08/04/23	Fri	1:45 PM	224.54	Good outflow	1.7	0.14
08/07/23	Mon	11:00 AM	224.50	Some rain already today	1.2	0.10
08/09/23	Wed	1:40 PM	224.50	Good outflow	1.2	0.10
08/13/23	Sun	2:00 PM	224.50	Some rain; Good outflow; Water backed up to 4-6 Iroquois due to R/T blocked northern culvert	1.2	0.10
08/15/23	Tue	2:00 PM	224.50	~3" rainfall; Good outflow; DPW cleared blocked Rail Trail cross-culverts	1.2	0.10
08/20/23	Sun	11:00 AM	224.46	Some minor rainfall over last few days	0.7	0.06
08/21/23	Mon	1:00PM	224.42	No rainfall	0.2	0.02
08/24/23	Thu	3:00PM	224.33	Raised gates 1" to slow drop; some rain expected tomorrow	-0.8	-0.07
08/26/23	Sat	9:30 AM	224.33	Monitoring	-0.8	-0.07
08/27/23	Sun	10:00 AM	224.33	Monitoring	-0.8	-0.07
08/28/23	Mon	10:00 AM	224.33	Monitoring	-0.8	-0.07
09/02/23	Sat	10:00 AM	224.29	Raised gates 1/2" & monitoring	-1.3	-0.11
09/15/23	Fri	6:30 PM	224.35	~0.5" rainfall 9/8'; ~1.5" rainfall 9/12; removed beaver dam in CT	-0.6	-0.05
09/26/23	Tue	12:30 PM	224.38	~1.8" rainfall 9/17 - 9/18; ~2.6" rainfall 9/23-9/25	-0.2	-0.02
10/01/23	Sun	12:20 PM	224.90	~6" - 7" rainfall Friday 9//29 - Saturday 9/30; Some backflow into lake	6.0	0.50
10/05/23	Thu	10:00 AM	224.80	Going down slowly: Debris in front of weir gates	4.8	0.40
10/13/23	Fri	10:30 AM	224.46	Dropping slowly; monitoring	0.7	0.06
10/13/23	Fri	10:30 AM	224.46	Status quo	0.7	0.06
10/16/23	Mon	10:15 AM	224.38	Dropping slowly; monitoring	-0.2	-0.02
10/26/23	Thu	1:00 PM	224.42	Some rainfall since last reading	0.2	0.02
11/02/23	Thu	12:30 PM	224.42	~3" rainfall on 10/29 - 10/30; 2 lage beaver dams north of weir gates and in CT	0.2	0.02

Congamond Lake Level Data

Date	Day	Time	Lake Level MSL (FT)	Comments	Difference from Nominal (inches)	Difference from Nominal (Feet)
11/14/23	Tue	12:00 PM	224.42	Minor rainfall - Solitude removed 3 beaver dams 11/8 - 11/9; Suffield DPW 3 removed dams in CT	0.2	0.02
11/27/23	Mon	12:00 PM	224.46	~1.5" rainfall on 11/26 - 11/27; Canal is free-flowing	0.7	0.06
12/09/23	Sat	10:00 AM	224.29	No significant rainfall since last reading	-1.3	-0.11
12/11/23	Mon	10:00 AM	224.50	Following ~2.5" heavy rainfall on 12/10 - 12/11; Water flowing well over weir gates & down canal	1.2	0.10
12/18/23	Mon	11:00 AM	224.75	Following ~2.5" heavy rainfall on 12/10 - 12/11; Canal ~1" above gates; Great Brook 30" above lake	4.2	0.35
12/19/23	Tue	8:00 AM	224.88	Major rainfall ended 1:00 PM on 12/11; Canal still ~1" above gates; Great Brook 8" above lake	5.8	0.48
12/26/23	Tue	2:15 PM	224.65	No major rainfall since 12/18 storm; Canal outflow good	3.0	0.25
12/28/23	Thu	12:00 PM	224.73	Following 2" - 3" heavy rainfall on 12/28 storm - Great Brook is 8" above lake level	4.0	0.33
01/09/24	Tue	11:45 AM	224.42	Following ~14" snow storm on 1/7/23; Good outflow at Canal; ~3" rain predicted for 1/9 - 1/10	0.2	0.02
01/13/24	Sat	10:45 AM	225.25	Following 2.5" heavy rain on 1/9; Ice just now covering most of 3 ponds and ground frozen	10.2	0.85
01/26/24	Fri	1:00 PM	224.83	Following several inches of rain plus snow since last reading; weir gates are clear on 1/27 per MD	5.2	0.43
02/06/24	Tue	1:45 PM	224.66	Outflow strong - Lots of water coming from Goose Pond	3.1	0.26
					-2692.8	-224.40
					-2692.8	-224.40
					-2692.8	-224.40

← Back (https://eoedcommunityprograms.submittable.com/submit)

Richard Grannells (https://www.submittable.com/help/submitter?orgId=24139)

Executive Office of Economic Development Community Programs (https://www.mass.gov/orgs/executive-office-of-housing-and-economic-development)

Follow

MA Dredging Program FY25 Inland Dredging Pilot Grants

Ends on Fri, Mar 1, 2024 11:59 PM

About

EOED is piloting an inland dredging grant round open to all 351 municipalities in Massachusetts. This round offers final design and construction grants for the dredging of freshwater lakes, ponds, rivers, streams, and drinking water reservoirs, as well as dredging required for the removal of municipal dams.

Before you begin

All applicants are required to submit the following:

- Completed application
- Site plan
- Cost estimate(s)

Additional attachments may be required based on the type of project and/or funding request. For complete round information, please refer to the RFP available at COMMBUYS, bid# BD-24-1100-EED01-EED01-96578 (https://www.commbuys.com/bso/external/bidDetail.sdo?docId=BD-24-1100-EED01-EED01-96578).

Questions?

Please contact EOHEDgrants@mass.gov (mailto:eohedgrants@mass.gov) and specify the grant program for which you are applying in the subject line. Program staff will be available for technical support up to 5:00 pm on the application due date.

Manage Collaborators

RG

Section 1. Project Snapshot

1.1 Applicant Municipality *

Southwick

nDate=2024-02-19T13%3a18%3a02.217000Z)

1.2 Applicant CEO Name *

First Name

Karl

Last Name

Stinehart

1.3 CEO Title *

Chief Administrative Officer

1.4 CEO Email *

kstinehart@southwickma.gov

1.5 Legal Address *

454 College Highway

1.6 City *

Southwick

9 / 300 characters

1.7 State *

Massachusetts

1.8 Zip Code *

01077

1.9 Application Point of Contact (POC) Name *

First Name

Richard

Last Name

Grannells

1.10 POC Title *

Lake Management Committee Chair

1.11 POC Email *

dpw@southwickma.gov

1.12 POC Phone *

+1 413 569 6772

1.13 Project Name *

Dredge South Boat Ramp Cove

1.14(a) Final Design and Permitting - Is the Municipality seeking funds for design and permitting? *

- (●) Yes
- ( ) No

1.14(b) Construction - Is the Municipality seeking funds for construction (dredging)? *

- ( ) Yes
- ( ) No

1.15 Total Project Cost *

$ 297000 USD

No commas or cents. Amount must match Section 3 below.

1.16 Grant Amount Requested *

$ 297000 USD

No commas or cents. Amount must match Section 3 below.

1.17 Project Type (see ① below for general descriptions, then select one) *

- ( ) Drinking water storage
- (●) Recreational boating
- ( ) Ecosystem health
- ( ) Dam removal

① General descriptions are provided below. Applicants should consult the RFP on COMMBUYS (https://www.commbuys.com/bso/external/bidDetail.sdo?docId=BD-24-1100-EED01-EED01-96578) for complete information.

- Drinking water storage—dredging to restore or increase drinking water storage in a reservoir
- Recreational boating—dredging to primarily restore or improve depths for freshwater boating
- Ecosystem health—dredging to primarily restore or improve the health of freshwater ecosystems
- Dam removal—dredging required for removal of a municipal dam

1.18 Joint Application - Is this a joint application on behalf of two or more municipalities? *

- ○ Yes
- ◉ No

Section 2. Location

2.1 Waterbody Type - Please select the type of waterbody to be dredged. (Select one) *

- ○ Drinking water reservoir
- ◉ Lake or pond
- ○ River or stream

2.2 Waterbody Name - Please provide the name of the waterbody. *

Congamond Lake

2.3 Map Link - Please provide a Google Maps link showing the approximate location of the Project Site (dredging area). (See 📣 below for instructions) *

https://maps.app.goo.gl/5nmrig3qFbmrXgQ77

📣 Find instructions to "Share a map or location with others" via Google Maps here. (https://support.google.com/maps/answer/7101463?hl=en&co=GENIE.Platform%3DDesktop&sjid=12712723505016574395-NA&visit_id=638360186834334995-557458640&rd=1&oco=0)

2.4 Watershed Name - Please select the Major Watershed where the waterbody is located. *

Connecticut ✕ ⌄

2.5 Climate Assessment Region - Please select the Massachusetts Climate Assessment region where the waterbody is located. (See 📣 below for look-up assistance) *

Greater Connecticut River Valley ✕ ⌄

📣 Find a statewide map of all MA Climate Assessment regions here. (https://www.mass.gov/files/styles/embedded_half_width/public/documents/2022/12/13/climate-assessment-regions.png?itok=ZgHiBHDa)For detailed regional maps, please see the links below.

- Berkshires and Hilltowns (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/berkshires-cities-and-towns-map_1.png?itok=z2jOcg0z)
- Greater Connecticut River Valley (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/greater-connecticut-river-valley.jpg?itok=qU_e1oSx)
- Central (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/central-region-map.jpg?itok=7VNvcmuj)
- Eastern Inland (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/eastern-inland-region-map.jpg?itok=uR3QsFEd)
- Boston Harbor (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/boston-harbor-region.png?itok=vYNfl-uN)

- North and South Shores (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/nort-and-south-shores.jpg?itok=dhnAEjMc)
- Cape, Islands, and South Coast (https://www.mass.gov/files/styles/embedded_half_width/public/images/2023-01/cape-islands-sector-map.png?itok=vWCMNa3f)

2.6 Community Context - Please indicate which, if any, of the following community classifications or designations apply to the Municipality. (See 📣 below for look-up assistance, then select all that apply or "None of the above") *

- [ ] Rural or Small Town (2020 Mass. Acts 358)
- [ ] Environmental Justice (EJ) community
- [ ] MBTA Community (M.G.L. Ch 40A, Sec 3A)
- [ ] None of the above

📣 **Use the following links to determine yes or no for each classification or designation.**

- Rural and Small Town list (https://www.commbuys.com/bso/external/bidDetail.sdo?docId=BD-24-1100-EED01-EED01-96578)
- EJ Communities list (https://s3.us-east-1.amazonaws.com/download.massgis.digital.mass.gov/shapefiles/census2020/EJ%202020%20updated%20municipal%20statistics%20Nov%202022.pdf)
- MBTA Communities list (https://www.mass.gov/info-details/multi-family-zoning-requirement-for-mbta-communities#complying-with-section-3a-guidelines-)

Section 3. Cost and Funding Sources

3.1(a) Design Services Estimate - Please attach a cost estimate for design and permitting services. Estimates should provide a detailed breakdown (itemization) of tasks and/or deliverables with corresponding prices, such as a price proposal prepared in response to a scope of services. *

Permit_and_design_cost_estimate.docx

No more files may be attached here.

Acceptable file types: .csv, .doc, .docx, .odt, .pdf, .rtf, .txt, .wpd, .wpf

3.1(b) Engineer's Construction Cost Estimate - Please attach an engineer's cost estimate detailing the project construction cost (dredging, dredged material disposal, etc.). Estimates should provide a detailed breakdown (itemization) of materials and tasks with corresponding prices. *

Construction_cost_estimate.docx

No more files may be attached here.

Acceptable file types: .csv, .doc, .docx, .odt, .pdf, .rtf, .txt, .wpd, .wpf

Please note the following before completing the Cost Summary Table below.

- Any match commitment must originate from one or more **non-state funding** sources: 'Municipal,' 'Federal,' and/or 'Private'
- Match commitments may **NOT** include in-kind contributions or pre-contract expenses (i.e., expenses incurred and/or paid prior to execution of a grant contract)
- The total project cost and total grant request must match the Municipality's responses in Section 1

3.2 Cost Summary - Please provide a breakdown of the project cost and funding sources. Read ALL headers carefully for instructions. Do NOT use commas, decimals, or dollar symbols when entering amounts. *

	A	B	C	D	E	F
1	**Spending category**	**A. Grant request**	**B. Match funds**	**Cost = A + B**	**Month and year when match secured, use either actual or**	**Match funding source, enter 'Municipal,' 'Federal,' and/or**
2	**Final design and permitting**	**70000**		**70000**		
3	**Mobilization and demobilization**	**10000**		**10000**		
4	**Dredging and material disposal**	**126000**		**126000**		
5	**Other construction services and materials**	**60000**		**60000**		
6	**Construction admin and environmental**	**15000**		**15000**		

3.3 Match Commitment - Is the Municipality committing a non-state funding match? (See Φ below for definition) *

○ Yes ○ No

Φ Non-state funding sources include the following:

- Municipal operating, enterprise, and/or Community Preservation funds
- Municipal bonds
- American Rescue Plan Act (ARPA) funds directly distributed to the Public Entity form a federal agency or county government
- Private contributions

3.3(a) Match Status - Are all match funds currently secured? *

○ Yes ○ No

Acceptable file types: .csv, .doc, .docx, .odt, .pdf, .rtf, .txt, .wpd, .wpf

Please note the following before completing the Cost Summary Table below.

- Any match commitment must originate from one or more **non-state funding** sources: 'Municipal,' 'Federal,' and/or 'Private'
- Match commitments may **NOT** include in-kind contributions or pre-contract expenses (i.e., expenses incurred and/or paid prior to execution of a grant contract)
- The total project cost and total grant request must match the Municipality's responses in Section 1

3.2 Cost Summary - Please provide a breakdown of the project cost and funding sources. Read ALL headers carefully for instructions. Do NOT use commas, decimals, or dollar symbols when entering amounts. *

	A	B	C	D	E	F
2	permitting	70000		70000		
3	**Mobilization and demobilization**	**10000**		**10000**		
4	**Dredging and material disposal**	**126000**		**126000**		
5	**Other construction services and materials**	**60000**		**60000**		
6	**Construction admin and environmental monitoring**	**15000**		**15000**		
7	**Contingency**	**16000**	**100000**	**116000**		
8	**Total**	**297000**	**100000**	**397000**	—	—
9	**Match %**	—	**25.188916876574307**	—	—	—

3.3 Match Commitment - Is the Municipality committing a non-state funding match? (See ⓘ below for definition) *

○ Yes ○ No

ⓘ Non-state funding sources include the following:

- Municipal operating, enterprise, and/or Community Preservation funds
- Municipal bonds
- American Rescue Plan Act (ARPA) funds directly distributed to the Public Entity form a federal agency or county government
- Private contributions

3.3(a) Match Status - Are all match funds currently secured? *

○ Yes ○ No

3.3(b) Match Details - Briefly describe the source(s) of the Municipality's non-state match. Please indicate who appropriated, awarded, and/or donated these funds and when. If the match is not yet secured, please describe the anticipated source(s) of the funds and the anticipated timeframe for securing them. Bullet points are encouraged. *

B I U

The Lake Management Committee (LMC) has submitted and application for $50,000 FY25 and $50,000 FY26 local CPA funds to cover unanticipated costs that may be identified during the (FY25) detailed design and permitting process that result in unanticipated costs during the construction (FY26) process. Note that the quality of the sediment is not yet known and could greatly affect disposal cost. LMC has past experience with 2 drag-line dredging projects (Channel by North Ramp & Canal between the island and mainland) and a dry Portadam dredging project (OFBA Public Fishing Pier) and 4 dry sheetpiling projects (North - Middle Pond and South - Middle Pond interlake culverts, OFBA North & South Ramp Launch Reconstruction Projects) on Congamond. Consequently, we believe the project can be accomplished within the budget laid out without the match, but the match will be sought to ensure that no unforseen circumstanced that increase cost will prevent project completion. The planned use of CPA funds requires public hearings followed by vote/approval of a Warrant Article at the May 2024 Annual Town Meeting, or a Special Fall Town Meeting, or the May 2025 Annual Town Meeting. The process is underway to request those funds.

3.4 Fiscal Years - Please select the fiscal years during which spending will occur. (Select all that apply) *

- [ ] FY25
- [ ] FY26
- [ ] FY27 (Jul-Dec only)

3.5 Spending Schedule - Please indicate the estimated spending amount by fiscal year. ⚠

⚠ Please note that with respect to feasibility, the most competitive construction projects will be advanced in design and permitting and/or highly likely to complete design and permitting by December 2025.

FY25 Estimated Spending *

$ 80000 USD

No commas or cents.

FY26 Estimated Spending *

$ 217000 USD

No commas or cents.

3.6 Other Grant Funds - Has the Municipality received other grants from the Commonwealth to fund any portion of the project's design, permitting, or construction? *

- ( ) Yes
- ( ) No

Section 4. Scope and Schedule

Please provide the following details for the Project.

4.1 Dredging Method(s) (see ① below for descriptions, then select all that apply or "Not yet determined") *

- [ ] Mechanical dry dredging
- [ ] Mechanical wet dredging
- [ ] Hydraulic dredging
- [ ] Not yet determined

① General descriptions are provided below.

- Mechanical dry dredging—draining the waterbody and removing material using conventional excavation equipment
- Mechanical wet dredging—removing material using a clamshell bucket, backhoe, dragline, or other conventional dredgers without draining the waterbody
- Hydraulic dredging—removing material using a barge-mounted suction dredger or similar dredger

4.2 Estimated Dredged Volume (+/- cubic yards) *

3200

Enter zero (0) if not yet determined.

4.3 Site Plan - Please attach a Site Plan of the project location. At minimum, this plan should be a scaled map (preferably satellite) that clearly delineates all areas of work. *

South_Ramp_Cove_Dredging_Project_02142024.pdf

Choose File

Select up to 5 files to attach. You have attached 1. You may add 4 more files.

Acceptable file types: .csv, .doc, .docx, .pdf, .jpg, .jpeg, .png

4.4 Design Status - Please indicate the level of design achieved to date. (Select one) *

- 75% or higher
- Between 25% and 75%
- Less than 25% (conceptual or preliminary)
- None to date

4.4(b) Conceptual Plan - If the current design is less than 25%, please attach the most detailed conceptual plan developed to date. *

South_Ramp_Cove_Dredge_Area_2.pdf

South_Ramp_Cove_Water_Depths_2001.pdf

No more files may be attached here.

Acceptable file types: .pdf, .jpg, .jpeg, .png

4.5 Site Ownership - Are all dredging areas publicly owned? *

Yes No

4.6 Project Scope - Please clearly describe the following:

- Area(s) to be dredged
- Primary purpose of dredging (2-4 sentences)
- Detailed description of the scope and sequence of work to be completed—design, permitting, construction, environmental monitoring, etc.—**including plans for public engagement** ⚠

⚠ For this question, applicants should focus on detailing the logistics (scope and sequence) of the project while briefly summarizing the other information. Applicants will have the opportunity to write in full detail about existing conditions, their impacts, proposed conditions, and estimated benefits from the Project in Section 5 below.

Please enter your response below. *

The area to be dredged is the cove adjacent to the south State Boat Ramp located at 10 Berkshire Avenue and bounded by the South Ramp to the north, waterfront homes to the west and south and a sandy/gravelly ridge separating the cove from deeper water. A portion of that ridge, made of placed fill almost 60 years ago is also planned to be removed during the dredging operation to allow safe boat access from the ramp to deeper water.

The primary purpose of this dredging project is to remove 1' - 3' of accumulated muck, gravel and other sediment that has resulted in damage to motors and props from the water being only 2' – 2.5' deep in the areas immediately adjacent to the launch area as mapped in 2001, with the problem worsening from prop wash and more organic mass accumulating over the last two decades since those measurements were made. Aerial photos over time show the progression to shallow water in this cove. This cove site also happens to be where a new variant of the aquatic invasive Hydrilla was recently found and is also at the "headwaters" of Great Brook that used to be primary outlet for Congamond until it too became so clogged that Great Brook often reverse-flows into Congamond. The proposed dredging project therefore helps with solving multiple problems in Lake Congamond.

It has been estimated that some 3200 cubic yards of muck, gravel and sediment need to be removed to restore the water depth to a safe level in this boat launch and local navigation cove. The Town/LMC already has its consultant limnologist on board and together would seek additional public input on its overall proposed plan during one or more of its regular meetings. Based on the results of those public meetings, an RFP would be initiated seeking an engineering firm to provide plans for design, sediment sampling, sediment removal and disposal site permitting, sediment removal by hydraulic dredging and likely some hydroraking,

environmental monitoring, progress meetings and final report. Assessment of RFP responses by key LMC members and our consultant limnologist would be followed by engaging in a contract with the selected respondent and construction. Notwithstanding changes necessary in the design and permitting phase, the project sequence would involve sediment quantity verification and quality testing in summer 2024, design and permitting in autumn and winter 2025, and actual dredging in late autumn of 2025 or winter of 2026. Some disposal and site restoration may be necessary through spring 2026.

4.6(a) Beneficial Use - Will the Project include beneficial use of dredged material? *

- Yes
- No
- Not yet determined

4.6(b) Construction Period - Please provide the allowable construction (dredging) period for the Project. (See ① below for definition) *

Dredging and disposal of dredged materials would be planned for early spring or late fall so as to not impact ramp use during the recreational boating period or the agricultural use of the intended disposal area. Actual dredging is anticipated for late fall of 2025 or early winter of 2026 with some disposal possible over winter of 2026.

① In this context, "construction period" is the annual timeframe during which dredging and dredged material disposal may occur, consistent with regulatory time-of-year restrictions.

4.7 When was the Project Site last dredged? (Time periods are given in calendar years Jan-Dec) *

- Before 1990 or there is no record of prior dredging
- 1990-1999
- 2000-2009
- 2010 or later

4.8 MEPA Filing - Has the project been submitted for MEPA review? *

- Yes
- No

4.9 Permit Table - Please identify which permits are required for the Project, whether these permits have been filed and/or issued, and if not filed, when the Municipality expects to file them. Read ALL headers carefully for instructions. Permits are listed in alphabetical order by the initials of the regulatory agency. *

	A	B	C	D	E
1	**Permit type**	**Enter 'x' if required**	**Enter 'x' if filed**	**If not filed, enter anticipated filing month and year, MM-YYYY**	**Enter 'x' if issued**

	A	B	C	D	E
2	**Conservation Commission Order of Conditions**	X		**February 2025**	
3	**CZM Federal Consistency Review**				
4	**DCR Office of Dam Safety Chapter 253**				
5	**DEP 401 Water Quality Certificate (WQC)**				
6	**DEP Beneficial Use Determination SW-39, 41, or 44**	X		**September 2024**	

4.10 Project Schedule - Please provide an anticipated work schedule based on the milestones below. For milestones not yet achieved, applicants should enter either the first of the month (mm/01/yyyy) or end of the month (mm/30/yyyy).

Notice to Proceed to Designer - Start Date *

07/01/2024

dd/mm/yyyy

Design 25% Completion - End Date *

09/01/2024

dd/mm/yyyy

Design 75% Completion - End Date *

10/31/2024

dd/mm/yyyy

Permitting 100% Completion - End Date *

03/31/2025

dd/mm/yyyy

Bid Opening - End Date *

05/31/2025

dd/mm/yyyy

Construction Mobilization - Start Date *

11/01/2025

dd/mm/yyyy

Construction 50% Completion - End Date *

12/31/2025

dd/mm/yyyy

Construction 100% Completion - End Date *

01/31/2026

dd/mm/yyyy

4.11 MVP Priority - Is the Project identified as a priority action or recommendation in the Municipality's MVP Planning Report? (See 📣 below for look-up assistance) *

○ Yes ○ No

📣 Find and review MVP Planning Reports here. (https://www.mass.gov/info-details/municipal-vulnerability-preparedness-mvp-program-planning-reports)

4.11(a) If yes, please provide a URL link to access the plan. *

https://www.mass.gov/doc/southwick-report/download

4.11(b) Please provide the page number(s) where the Project is referenced. *

3, 5, 6, 7,12,13, 14 & Appendix A

Section 5B. Recreational Boating

Dredging to primarily restore or improve depths for freshwater boating

Please note the following before completing this section.

Recreational Boating projects will be accepted for launch and/or navigational dredging.

To be eligible for launch dredging, a launch facility must meet **all** the following criteria:

- Launch facility is located on land owned by the applicant municipality;
- Launch facility is owned by either (a) the applicant municipality or (b) the Massachusetts Office of Fishing and Boating (OFBA) with whom the municipality has a land management agreement; and
- Launch facility is open to all state residents

To be eligible for navigational dredging, all dredged areas must be publicly owned, and the waterbody must have at least one launch facility that meets **all** the criteria above.

5B.1 Launch Name - Please provide the name of the launch facility that meets all the qualifications above. *

South Boat Ramp (Owned by Mass OFBA and agreed to its use for collecting dredged materials)

5B.2 Launch Owner - Please specify the owner of the launch facility? *

- [ ] Municipality
- [x] OFBA

5B.3 Land Owner - Does the Municipality own the land on which the launch is located? *

- [ ] Yes
- [x] No

5B.3(a) If no, please explain the ownership and land management situation. *

The Town of Southwick has a Land Management Agreement (11/19/1990) with OFBA for both State (OFBA) Public Boat Ramps on Congamond. Under this 3-decade old agreement, the Southwick Lake Management Committee (LMC) manages these OFBA-owned ramp facilities for the Town and OFBA. Launch fees collected during the boating season exclusively fund Ramp Attendants, porta-pottys, facilities lighting, security cameras, maintenance and minor improvements. Major capital improvements are funded by OFBA.

5B.4 Launch Type (see ⓘ below for descriptions, then select one) *

- [ ] Concrete ramp with two lanes
- [x] Concrete ramp with one lane or concrete pad/platform system
- [ ] Gravel ramp
- [ ] Cartop launch
- [ ] Canoe launch

ⓘ Below are general descriptions of each launch type.

- Concrete ramp with two lanes—suitable for trailered boats
- Concrete ramp with one lane OR concrete pad/platform system—suitable for smaller trailered boats
- Gravel ramp—suitable for smaller trailered boats
- Cartop launch—suitable for small watercraft transported on car roofs
- Canoe launch—primarily suitable for canoes and kayak

5B.5 Launch Fees - Does the Municipality charge launch fees? *

- [ ] Yes
- [x] No

5B.5(a) Fee Structure - Does the Municipality charge the same fee amount to all state residents? *

- [ ] Yes
- [x] No

5B.6(a) # Car Parking Spots (not suited for trailers) *

1

Enter zero (0) if none

5B.6(b) # Trailer Parking Spots (not counting car parking spots above) *

18

Enter zero (0) if none

5B.7 Parking Cost (select one) *

- [ ] No charge
- [ ] Sticker or permit
- [x] Daily fee
- [ ] No parking available

5B.7(b) Daily Fee - Does the Municipality charge the same amount to all state residents for parking? *

- [x] Yes
- [ ] No

5B.8 Project Need - Please clearly describe the following:

- A brief description of the launch facility and navigable waters—launch type, site access, on-site amenities, fishing coves, popular navigation areas or routes, etc.
- Typical launch users, boats, and waterbody uses—local residents, regional visitors, tourists, summer camps or clubs, motorized boats (fishing or leisure), canoes, kayaks, annual fishing tournaments, etc.
- Existing conditions and their impacts on launch users, boats, and waterbody uses, particularly reduced access and/or limits on navigation
- Proposed conditions and their estimated benefits—applicants should provide information that quantifies the Project's restoration or increase in depth, and when possible, cite findings from local or professional evaluation reports

Please enter your response below. *

B I U

The South Boat Ramp is the smaller of the two OFBA public launch facilities, which are the only public launch facilities on Lake Congamond, and is located off the southwestern end of Middle Pond at 10 Berkshire Avenue. South Ramp is a fully handicap-accessible lighted launch facility with a 40' handicap-accessible boarding dock, 17 long spaces (accommodate vehicle with trailer) plus 1 handicap vehicle with trailer space, 1 short (cartop) space and a handicap-accessible porta-potty. The facility sees many patrons launching fishing boats, recreational boats, canoes and kayaks as well as people shore fishing from along the wall on the eastern side of the parking area. People also used to shore fish off the southern side of the facility, but the water is now too shallow and too warm in the summer for the larger fish. Some boaters avoid using the recently upgraded South Ramp launch facility that provides public access to Congamond's 460+ acres of navigable waters due to previous experiences with prop or engine damage due to the shallow water just beyond the immediate launch area. Accumulated sediment must be removed to facilitate full use of the South Ramp and the associated cove.

An additional, larger OFBA North Ramp located off the northern end of Middle Pond offers similar facilities and additional public parking to support recreational boaters and the 80+ fishing tournaments run out of the North Ramp annually. These public boat ramps that are managed by the Southwick Lake Management Committee (LMC) are open 24/7/365. These two ramps saw a combined 6325 total paid launches in 2023 (plus an estimated 1000+ unpaid launches in the off hours when not staffed), along

with the 80+ annual fishing tournaments that come from MA, CT, RI, NH and even NY. Both facilities are fully handicap accessible, paved and striped, illuminated at night with 24/7 security cameras coverage, staffed during the boating season and are typically filled to capacity during hot summer Thursdays, Fridays, Saturdays, Sundays & holidays. Visitors and area residents accordingly bring considerable economic benefit to area marinas, restaurants, gas stations and other businesses. The $8 per boat launch fee funds ramp attendants, porta-pottys, lighting, security cameras and facilities maintenance. Both ramp facilities are open to all 24/7/365 on a first-come, first-served basis for the $8 launch fee, whether trailered or cartop, and regardless of residency being in or out of town or state. Both ramps are needed at full functionality to support desired use.
Congamond is a 14,000 year old ice-age water body that was part of the former 230 mile long north/south Lake Hitchcock and over the centuries has suffered from degrading water quality, along with increasing frequency and severity of cyanobacteria algae blooms over recent years. Until recent management action, the cyanobacteria blooms resulted in more frequent and longer

5B.9 Existing Recreational Opportunities - Please indicate which, if any, of the following recreational uses are allowed in and around the waterbody. (Select all that apply or "None of the above") *

- [ ] Swimming
- [ ] Walking, hiking, or snowshoeing on defined trails
- [ ] Bicycling on paved trails
- [ ] Shore or stream fishing
- [ ] Boat fishing
- [ ] Cross-country skiing
- [ ] None of the above

5B.10 Recreational Amenities Co-benefits - Will the Project coincide with imminent improvements to the launch facility or other public recreational amenities, such as replacement of a ramp, renovation of a waterside trail, or acquisition of abutting land to increase protected open space? *

- ○ Yes
- ○ No

5B.10(a) If yes, please describe the planned public improvements and the anticipated start and completion timeline. *

B I U

The Town's Conservation Commission is in the process of acquiring a parcel of waterfront land that includes adjacent Great Brook & wetlands that is adjacent to the project site. The land is being donated to the Town by a local resident/owner. The Conservation Commission plans to use its own funds to fund the required survey, legal and closing costs.

5B.11 Leveraged Grant Projects - Does the project build on or leverage work that was supported by one or more grant programs offered by the Massachusetts Division of Conservation Services (DCS)? (See 📣 below for guidance) *

- ○ Yes
- ○ No

📣 Find all grant programs offered by DCS here. (https://www.mass.gov/grant-programs-offered-by-the-division-of-conservation-services)

5B.11(a) If yes, please explain. Please include in your response the grant program name(s), the fiscal year(s) in which funding was awarded, and the fiscal year(s) in which the funding contract closed or will close. Bullet points are encouraged. *

The Town of Southwick Parks & Recreation Commission is planning on applyng for a PARC grant to add a handicap-accessible ramp and adjacent public parking to provide safer, more convenient local neighborhood and public geneeral and handicap access to the Rail Trail midway between two other public access points that are both 1+ miles away.

The Town of Southwick Water Department in conjunction with the Community Preservation Committee is working on a plan to purchase a 42 acre parcel of currently open, developable, land that is adjacent to our wells and wellfield land to further protect the Great Brook Aquifer, Town wells and underground water supply. They are exploring funding options including the Drinking Water Supply Protection Grant.

5B.12 Surrounding Development - Please indicate which, if any, of the following businesses or land uses are located within a two (2) mile radius of the launch facility. (Select all that apply or "None of the above") *

- [ ] Boat rentals
- [ ] Fishing or bait shops
- [ ] Campgrounds
- [ ] Hotels, inns, or similar lodgings (excluding campgrounds and short-term homestay rentals)
- [ ] Outdoor recreation resort
- [ ] Restaurants
- [ ] Retail shops
- [ ] Downtown or village center
- [ ] Public library, museum, or other cultural building
- [ ] Mixed-use zoning
- [ ] None of the above

5B.13 Economic Co-benefits - Please describe the role that recreational tourism plays in the local and/or regional economies.

Applicants may describe public and private recreational destinations and associated activities in the community or region, such as:

- Commercially operated outdoor recreational facilities or activities—rafting, zip-lining, bike parks, adventure parks, outdoor recreational resorts, etc.
- Campgrounds, cabins, or similar accommodations
- Recreation-focused shops and retail—bait shops, equipment rentals, gear for outdoor activities, etc.
- Popular state parks and recreation lands

The Massachusetts Office of Travel and Tourism (MOTT) offers an online Plan Your Trip tool (https://www.visitma.com/plan/) to explore assets, destinations, and accommodations in Massachusetts cities and towns.

Please enter your response below. *

Saunders Boat Livery that is located on the southern end of Middle Pond directly across from the South Boat Ramp sells bait, services and sells boats, motors and boating equipment, rents pontoon boats, row boats and canoes. Sodom Mountain Campground located on South Loomis Street offers campgrounds, spaces for RVs, swimming pool, hiking, basketball, volleyball, food, grills, picnic tables, outdoor movies, campfires, restrooms, cabins for rent, playground and other recreational amenities. The

Town of Southwick owns and operates a Town Beach on South Pond that is open to the general public during the swimming season. The Town of Southwick owns and operates Whalley Park which has a pavilion for outdoor concerts and other events, lighted fields for baseball, soccer, softball and Town voters recently approved the addition of a spray park and pickleball courts. Adjacent to Whalley Park is MotoCross 338 on the American Legion Post #338 grounds that has hosted the MotoCross Nationals several times in recent years. Adjacent to MotoCross 338 is the non-profit Southwick Rec Center with multiple soccer and baseball fields and a building for indoor activities. The Town constructed its Rail Trail a decade ago that runs the length of Southwick and connects to the north with Westfield's Columbia Greenway and to the south with Farmington Canal Heritage Trail. The recently reconstructed Congamond Road (MA 168) also has bike lanes and a sidewalk that insect the Southwick Rail Trail. Congamond Road links adjacent Suffield CT to Congamond's Middle and South Pond, as well as multiple businesses (food, package store, restaurants, coffee shop, marina) along Congamond Road and on College Highway (US 202/MA10) where there are shops for groceries, general merchandise (including clothing, gardening, hardware, food, sundries, outdoor activities gear including swimming, fishing and boating equipment), gas station, restaurants, nursery & cut-your-own Christmas trees, fast-food chains, pharmacy and breakfast/lunch facility that also sells food, beer & wine. The Town of Southwick has a handicap accessible public playground, picnic tables two lighted volleyball courts and a lighted basketball/pickleball court on the Town Hall Prifti Park land and is looking to add more dedicated pickleball courts on that land. With the help of Franklin Land Trust and the MA Dept. of Fisheries & Wildlife, the Town of Southwick recently acquired and will preserve 62 acres of open, developable land that includes some 2500' of waterfront on North Pond. That 62 acre Town Preserve is immediately adjacent to 333 acres of an open preserve owned by MA Dept. of Fisheries & Wildlife.

5B.14 Economic Development Tools - Please indicate which, if any, of the following development tools have been adopted or utilized by the Municipality. (Select all that apply or "None of the above") *

- [ ] 40R Smart Growth Zoning District
- [ ] 40S Start Home Zoning District
- [ ] District Improvement Financing (DIF)
- [x] Tax Increment Financing (TIF) Agreement
- [ ] State-approved Urban Renewal Plan
- [ ] State-approved Housing Production Plan (HPP)
- [ ] Inclusionary zoning bylaw or ordinance
- [x] Accessory dwelling units (ADU) allowed by right or special permit
- [ ] None of the above

5B.15 Ecosystem Services Co-Benefits - Will the Project improve ecological functions or natural processes that promote clean water, biodiversity, healthy native species, or other ecosystem services benefits (ESB's)? *

- [ ] Yes
- [ ] No

5B.15(a) If yes, please explain. When possible, applicants should cite details from local or professional evaluation reports that estimate ESB's expected from the Project. (See ① below for definition and guidance.) *

B I U

This proposed dredging project in Lake Congamond will inherently benefit ecological functions that promote clean water and desirable biodiversity. Removing nutrient-containing muck via dredging will inherently help improve Congamond's water quality and water that eventually finds its way (via recharge) into the Great Brook Aquifer. Congamond's North (MA32022), Middle (MA 32021) and South (MA 32023) Ponds are on the 303(d) list for low dissolved oxygen and invasive Eurasian Water Milfoil. All three ponds also have invasive Curly Leaf Pondweed as well. An invasive Hydrilla variant has very recently been found in the area planned to be dredged, making this project part of habitat restoration. Additionally, flow into Great Brook, historically an outlet from

the lake, is impeded by accumulated sediment in the target cove, increasing flood potential during storms. While the target dredging area is small, it has a high priority with regard to multiple lake management plan elements.
The Town employs Water Resource Services Inc. to assess data provided by the Lake Management Committee (LMC) and make recommendations for immediate, near-term, and long-term actions that need to be taken to address water quality, flooding, ecosystem health, and collection of additional data that are needed to support that work. A 2016 report from WRS has become the blueprint for Lake Management actions in recent years. Representatives from all Town departments and agencies, with the guidance of Fuss & O'Neill consulting engineers, completed its Municipal Vulnerability Preparedness (MVP) Plan in 2016 and is currently in the process of updating that plan. The 2016 plan includes recommendations to address flooding of the Lake Congamond area and reverse flows of water of degraded quality into Congamond Lake from Great Brook and Canal Brook. That MVP plan also recommends "increasing coordination and cooperation with Suffield, CT to protect the Congamond Lakes and address issues with erosion, algal blooms, waterfowl, and septic systems." Southwick officials continue having dialog with Suffield officials on these subjects.

All efforts to improve Congamond Lake have benefits beyond the boundary of the lake. Congamond is spring fed and is a major component of the recharge of the Great Brook Aquifer that lies beneath Lake Congamond and flows from south to north. From the late 1800s to the 1920s when mechanical refrigeration came into being, Congamond's spring-fed pristine waters made it a major source of quality ice for major cities as far south as New Haven, Bridgeport and New York City. Southwick draws most of its Town water from this pristine underground aquifer with the balance (particularly during summer high-use periods) supplied by the

ⓘ **In this context, ecosystem services benefits (ESB's) are defined** as the benefits provided to the Municipality through improvements to, or restoration of, the waterbody's freshwater ecosystem. Examples of ESB's include, but are not limited to, nutrient (pollutant) reduction, cleaner water, cleaner soil, erosion prevention, healthy native species populations, greater biodiversity, greater carbon storage, and flood mitigation.

5B.16 Community Recreation Planning - Does the Municipality have a state-approved Open Space and Recreation Plan (OSRP)? (See 📣 below guidance and look-up assistance) *

○ Yes ○ No

📣
- Applicants should select yes **if and only if** the plan is unexpired. Otherwise, please select no.
- Find EEA's list of local Open Space and Recreational Plans here (https://www.mass.gov/doc/open-space-and-recreation-plan-status-2/download)

5B.16(a) If yes, is the Project included on the OSRP's five-year action plan? *

○ Yes ○ No

5B.16(b) If yes, please provide a URL link to access the plan. *

https://www.southwickma.org/sites/g/files/vyhlif1241/f/uploads/southwick_osrp_2019_final_1.pdf

5B.16(c) Please provide the page number(s) where the Project is referenced. *

71, 75 and the referenced maps and charts therein

5B.17 Community Preservation Fund - Does the Municipality have a Community Preservation Fund? (See 📣 below for look-up assistance) *

○ Yes ○ No

📣 Find a list of communities with a Community Preservation Fund here. (https://www.communitypreservation.org/map)

Section 6. Certification of Authorization

6.1 Preparer Name *

First Name

Richard

Last Name

Grannells

6.2 Preparer Title *

Richard Grannells - Southwick Lake Management Committee Chair

Certification

By dating and submitting this application, the Preparer (see above) certifies that he/she is duly authorized to submit this application on behalf of the Public Entity. He/she further acknowledges that the information provided herein will be relied upon by the Commonwealth to decide whether to award a capital grant and that the Commonwealth reserves the rights to take action against the Public Entity or any other beneficiary of such a grant if any of the information provided is inaccurate, misleading, or false.

The Preparer hereby certifies under the pains and penalties of perjury that the answers submitted in this application, and any attachments submitted in support thereof, are true, accurate, and complete.

6.3 Submission Date *

dd/mm/yyyy

⚠ You are about to submit your application.

Please review your responses and attachments. Once your application is submitted, no further changes can be made.

What to expect

You will receive an email confirmation once your application is submitted. **All notifications will be sent to the email address associated with your Submittable account/login.**

If you do not receive a confirmation email, please try the following:

- Be sure that you have submitted the application and that it is not still saved as a draft
- Check which email address you used to set up your Submittable account. Be sure that this email address has been entered correctly.
- Check the junk/spam filters for your email account. Be sure to safelist (https://submittable.help/en/articles/3221476-how-can-i-safelist-notification-emails-from-submittable) notification emails from Submittable.

Save Draft Submit