# **BIRCH COVE BEACH CLEAN UP AND MAINTENANCE: LOG BOOK**

## **General Information**

1. The objectives of Birch Cove's Beach Development and Maintenance is to improve the functionality and aesthetic appeal of the beach and water shallows. We are on a learning curve, and our techniques, processes, and knowledge will improve over time. Thank you for making this effort a success through your community support!

2. Any work that takes place at the high water mark and into the water is under Federal/Provincial Jurisdiction \*This includes removal of sludge (on the shoreline, in and floating on the water), removal of aquatic plants, removal of semi-submerged dead trees and shrubs, installation and maintenance of rip rap to prevent water erosion and siltation.

3. Any work that takes place behind the high water mark is under the jurisdiction of the Summer Village of Birch Cove, with the expectation that environmentally conscious practices will be utilized at all times.

4. This log will detail the work completed on both Municipal and Federal/Provincial land, the methodology followed, as well as notes on approaches that worked well, and the ones that could be improved-- to inform future work projects

DATE	Work			
	Project	<b>Tools Used</b>	Methods	Comments
Dec 29, 2023 UNSCHEDULED VOLUNTEER CLEANUP	Unseasonal warmer weather and lack of snow allowed 2 community volunteers to remove dead tree branches from the frozen lake surrounding the jetty area.	Branches were picked up by hand	Tree debris was stored for future community firepit use.	Winter beach maintainence can be accomplished as long as ice conditions are safe, and water contamination is not a potential outcome. Thank you volunteers!
Sept 10, 2023 SCHEDULED VOLUNTEER CLEANUP		Handsaws, chain saws, rakes, pitch forks, wheel barrows, garbage bags	Tree stumps submerged in water will be cut down to the lake bed with hand saws. Tree stumps on dry land above the high water mark were cut with chain saws and hand saws to the ground level. Because there was no C- can for debris, the tree debris was cut into pieces for community firewood	Thank you volunteers!

# Work Project

# Tools Used

Aug 29, 2023 Adhoc Volunteer Work

Sludge removal by Rakes, shovels and a 2 community wheel barrow volunteers

## Methods

Volunteers raked accumulated sludge on water's edge from the old boat launch to the kayak launch site. The sludge was piled onto Municipal Land, and then removed to the new park area on the Municipal Reserve, next to the multi-purpose sports court

### Comments

Continued vigilance on removing accumulated sludge within permitted time period (July 15-Sept 15) much appreciated! Aug 26, 2023 This was the first Volunteers brought their Before work commenced, Bruce 1. The workday was originally planned for 10 am to **SCHEDULED VOLUNTEER** organized own rakes, shovels, Sample led a brief training session with 2 pm (4 hours), but all work was completed in just **CLEANUP** the volunteers and Renee Jackson community wheelbarrows, whipper over 2 hours. \*\*\*\*\*\*\* volunteer work snippers and large showed the volunteers the noxious 2. There were no safety incidents and the work was SUGGESTIONS FOR day, led by Bruce garbage bags. One and invasive plants to be manually in compliance with the Water Act Approvals and COUNCIL Sample from the resident brought his skid pulled out by the roots conditions. **CONSIDERATION:** Beach steer. Council arranged 3. The Binder containing the Siltation and Erosion 1. Council supply bottles Development for a C-can (shipping Control Plans as well as the approved of water for volunteers Committee. Bruce container) to put the methodologies was at the work site, with Sandra and hot dogs advertised the vegetation debris, and Lambertus documenting the activities for the log. 4. The tasks were completed efficiently and the immediately after the event with posters selected the designated work is completed. at the Community park area on the appearance of the beach and the jetty was greatly 2. Council supply Centre and Municipal Reserve for improved. construction-style distributed the sludge to be used as 5. The dead willows on the right side of the jetty garbage bags for the notices around fertilizer. have been marked for cutting down, the date for removal of noxious the summer this work has yet to be determined. plants. village. About 25 6. Due to the unusually high water level in the lake 3. Council arrange for community for this time of year, there was relatively little transport and an off-site volunteers of all sludge to remove. Sandra Lambertus will contact location for the sludge. ages participated Alberta Environment to confirm whether sludge 4. Council reimburse fuel enthusiastically. washed up on the shore can be removed after expenses for skid steer. September 15, when the water level may drop. CONTINUED NEXT PAGE

# Work Project

#### **Tools Used**

5. Council to decide 1. Remove whether beach cleanup noxious and is restricted to organized invasive plants, events or also include as per Alberta adhoc volunteers outside Environment the designated workday. advisory 6. Use social media to increase community

awareness of cleanup activities. This may be restricted to the Birch Cove Website, and requires Council decision--the CAO is in charge of

7. Council consider hiring out the removal of invasive milfoil in our water shallows--these are pervasive and creates dense mats that interfere with water

the website.

recreation.

By hand

# Methods

Manually pulled plants out by the roots, bagged securely, placed in the C-can, and later taken to a landfill

### Comments

Volunteers pulling invasive plants used up all the donated bags supplied by volunteers. Refer to Suggestions to Council

#### ORGANIZATIONAL SUGGESTIONS

1. Provide a clear work plan to all volunteers for the day's activities. 2. Appoint leads and have names of volunteers for specific activities in advance. Teams can accommodate additional dead willows on volunteers on the work 3. Make the the jetty day. Log Book, Methodologies, and Siltation and Erosion **Control Plans binder** more accessible for the community. (To avoid the risk of theft or vandalism, these documents will be available on the Birch Cove website, and available electronically on request, rather than leave the hard-copy binder in the Community Centre.

Project 2. Cut back all dead willows about 3 feet above the water line on the left side of the jetty (facing the lake), and mark for future cutting the right side of

Work

**Tools Used** 

Whipper snippers, other power tools

# **Methods**

Debris collected in a C-can and taken to a landfill

#### Comments

1. Trees were cut high to prevent a hazard with snow mobilies in the winter. Tentatively this winter, trees will be cut again to the level of the ice, and then this summer cut at the lake bed, to allow for new riprap. There were some smaller living trees and shrubs also cut back--due to the high water in the lake, these were at risk for dying by next year. 2. The sodded area on the jetty was left as is. 3. Living trees and shrubs remaining on the right side of the jetty offer shade and a wind break for the jetty.

#### Work

kayak launch

## Project Tools Used

Whipper snip
Whipper snippers,
Municipal
other power tools
Reserve land
around the jetty
and above the
high water
mark, up to the

#### Methods

#### Comments

Plants were cut low to the ground, Improved appearance of the Municipal Reserve in and debris raked and placed in the front of the water. C-can

4. Removed Hand tools: Rakes, Sludge was piled up on Birch Cove Water level was very high for this time of year, sludge from the shovels (REFER TO Municipal Reserve land above the and sludge accumulation was mostly comprised of plant debris. If the water level high water mark SLUDGE high water mark. Because there to the shoreline METHODOLOGY PAGE) was a relatively small amount of declines, and more sludge is pushed to the that extended sludge, comprised mostly of plant- shoreline when the boat docks are removed, from the kayak based material plus the availability this may become a volunteer work project for launch to the of volunteers and wheel barrows, September 10 jetty. Also it was decided to immediately move the sludge to the new park removed sludge floating at the area beside the multi-purpose top of the sport court. The sludge will be used as fertilizer in advance of water. applying grass seed. Residents can also access the sludge in this area to use as fertilizer on their Birch Cove properties.

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