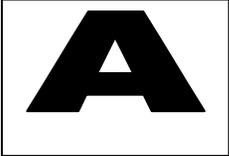


WMF Form A: Workplan Template
Watershed Management Fund Workplan: 2019/20



Definitions

Goal: What you are working towards, your ultimate destination, where you are going.

Objective: Tangible, measurable steps on the road towards your goal.

Activities: The specific actions you plan to do this year.

Submit completed form by **March 31, 2019** via email to kemacquarrie@gov.pe.ca or in person to Kate MacQuarrie, Ross Bernard or Mary Finch

Watershed Group: South Shore Watershed Association

Goal #1: Rehabilitate Salmonid habitat in the South Shore Watershed's main river channels and important spawning tributaries.

Objectives	Activities
<p>Westmoreland River Watershed:</p> <ol style="list-style-type: none"> 1. Implement 4 km of the habitat restoration plan developed last year for East branch of the Westmoreland River up from Stordy's Pond to Balaklava Rd East to Frenchy's Pond, as well as the Colette Rd tributary and the three southernmost tributaries of the East branch at Halls Lane, MacDonald Rd and the tributary running through the Sherrens' land. 2. Reassess 1.5 km of the West branch from Harvey's store to Old Town Rd. 3. Assess the Victoria River to see if the stream is still there or has fully dried up. 4. Calculate water depths and sediment load in Stordy's Pond 	<ol style="list-style-type: none"> 1. Restore connectivity within 4 km of the East branch main channel 2. Restore connectivity within three major tributaries 3. Replace one private culvert at tributary on Frank MacDonald's land, parcel #216176 4. Restore connectivity within 1.5 km of the West branch main channel 5. Remove beaver dams, trap beavers during the fall/winter season 6. Address an illegal ATV crossing through the river bed on land at the shale pit owned by Curran & Briggs, parcels 4554253/765480 7. Selectively remove in-stream debris 8. Selectively remove alders 9. Install brush mats 10. Remove any debris in the fish passage in- and outlets, as well as in the rest basins at Stordy's Pond 11. Monitor Trout and Gaspereaux with pit tagging and aerials. 12. Measure water depths and sediment depths at GPS'd locations in Stordy's Pond 13. Locate, GPS & photograph areas of point-source siltation/run off [recheck after major rain event] 14. Locate, GPS & photograph areas of garbage dump 15. Locate, GPS & photograph areas which require planting in buffer zones 16. Identify gravel spawning grounds

<p>Tryon Watershed:</p> <ol style="list-style-type: none"> 1. Rehabilitate fish habitat in Tryon tributary at property #797266 2. Rehabilitate fish habitat in Tryon tributary at property #211763 3. Rehabilitate fish habitat in Tryon main branch at property #215582 /216002 	<p>17. Identify & GPS brook trout spawning springs</p> <ol style="list-style-type: none"> 1. Restore connectivity within 1.5 km on two tributaries off the east side of estuary main channel and 1.5km of Tryon main branch above Lord’s Pond to Church Rd and Mount Tryon Rd 2. Selectively remove in-stream debris 3. Selectively remove alders 4. Install brush mats 5. Remove sediment from Lord’s Pond in preparation for spillway and fish ladder installation next season 6. Locate, GPS & photograph areas of point-source siltation/run off [recheck after major rain event] 7. Locate, GPS & photograph areas of garbage dump 8. Locate, GPS & photograph areas which require planting in buffer zones 9. Identify gravel-spawning grounds 10. Identify, clean & GPS brook trout spawning springs
<p>DeSable Watershed:</p> <ol style="list-style-type: none"> 1. Rehabilitate fish habitat in DeSable main branch at property #225094 2. Rehabilitate fish habitat in DeSable tributary at properties #738708, 603969, 693960, and 693978 3. Rehabilitate fish habitat in DeSable main branch at property #217729. 	<ol style="list-style-type: none"> 1. Restore connectivity within 400 m section and 600 m section of main branch and 1 km on tributaries above Linden Hill Pond 2. Selectively remove in-stream debris 3. Selectively remove alders 4. Install brush mats, locate, GPS and photograph areas of point-source siltation/run off [recheck after major rain event] 5. Locate, GPS & photograph areas of garbage dump 6. Locate, GPS & photograph areas which require planting in buffer zones 7. Identify gravel spawning grounds 8. Identify, clean & GPS brook trout spawning springs.
<p>Seven Mile Bay Watershed:</p> <ol style="list-style-type: none"> 1. Calculate water depths and sediment load 2. Assess fish populations 3. Rehabilitate fish habitat in main channel 	<ol style="list-style-type: none"> 1. Measure depth of water/sediment buildup at Noonan’s Pond and Rolly Pond 2. Water quality data collection for both ponds, including: <ol style="list-style-type: none"> a. fish health assessment b. fish population density c. fish identification

<p>at property #210641</p>	<ol style="list-style-type: none"> 3. Restore connectivity within 1.5 km on the two branches of main channel 4. Selectively remove in-stream debris 5. Selectively remove alders 6. Install brush mats 7. Identify and clean spawning springs 8. Locate, GPS & photograph areas of point-source siltation/run off [recheck after major rain event] 9. Locate, GPS & photograph areas of garbage dump 10. Locate, GPS & photograph areas which require planting in buffer zones 11. Identify gravel-spawning grounds 12. Identify & GPS brook trout spawning springs
<p>Augustine Cove-Cape Traverse Watershed: Clean spring near Augustine Cove Bridge (parcel #1129)</p>	<ol style="list-style-type: none"> 1. Inspect springs for any sign of fish 2. Remove excess heavy debris and plant overgrowth 3. Pressure-wash springs with outlet or small pump 4. Remove dirty water with larger pump 5. Ensure dirt water is not entering water channel 6. Recheck springs after cleaning
<p>Monitor water quality</p>	<p>Continue water sampling at 17 SSWA sites. Collect data on:</p> <ol style="list-style-type: none"> 1. nitrates 2. dissolved oxygen 3. water temperatures 4. conductivity 5. total suspended solids 6. pH <p>Data to be uploaded to AtlanticDatastream.ca</p>

Goal #2: Have a healthy/forested riparian zone at least 15m wide along the full length of SSWA rivers.

Objectives	Activities
<ol style="list-style-type: none"> 1. Expand the riparian zone to 15m on government property along Victoria estuary (approx. 400m stream length). 2. Expand the riparian zone to 15m, parcel #216317, along Westmoreland main river (approx. 60m stream length). 3. Expand the riparian zone to 15m on property #21108 along Noonan’s Shore wetlands (approx. 1 km stream length). 4. Expand the riparian zone to 15m on private land – call for landowner requests included in <i>SSWA Tidings</i> Winter 2018–19 newsletter. 	<ol style="list-style-type: none"> 1. Plant 500 salt-tolerant shrubs on the west side of the estuary at Victoria village property, parcel 842235 2. Plant 25 juniper and 25 black ash along river, parcel #216317 3. Plant 250 mixed tree and shrub along entire freshwater and salt water wetlands at Noonan’s Shore, including but not limited to: nesting islands, along causeway road from beach to new hydro lines, as well as path leading to fish ladder 4. Plant extra trees and shrubs in our riparian zones and when landowners request 5. Install tree guards on all plants
<p>Enhance/diversify the existing riparian zone, parcel # 437913 (approx. 500m stream length)</p>	<p>Patch-cut alders and plant 500 native trees and shrubs within the openings</p>
<p>Increase the area of riparian zone under stewardship agreements</p>	<p>Refer interested landowners to ALUS Refer ecologically significant areas to FFW or INT for possible natural areas designation</p>

Goal #3: Reduce shoreline erosion to socially acceptable levels and determine best management practices to stabilize shoreline cliff banks.

Objectives	Activities
<p>Tryon Point Rd, property # 208371 (approx. 200 feet estuary bank length)</p>	<ol style="list-style-type: none"> 1. Assess site for winter damage 2. Secure any loose materials 3. Prune or replace shrubs 4. Monitor site for results

<p>Richard Point, property #580415 (Camp Abegweit) (approx. 450-foot bank length along Northumberland Strait)</p>	<ol style="list-style-type: none"> 1. Reinforce and secure the bioengineered bank with materials collected from previously loosened materials 2. Plant uplands where needed 3. Monitor shoreline project off-season to determine winter effects 4. Document changes in coastline
<p>Government property #207811 (Victoria Provincial Park) (approx. 800-foot bank length). Expand the project along Victoria estuary bank (additional approx. 850-foot bank length).</p>	<ol style="list-style-type: none"> 1. Plant 500 salt-tolerant plants for the Victoria Provincial Park area where previously planted shrubs are falling off the cliffs 2. Plant 750 salt-tolerant shrubs along cliff on parcel #462408, Dept. of Transportation, adjacent to (east of) Victoria Provincial Park to prevent vehicles damaging the cliffs and walking trail, and connect with the Dept. to reroute passage. 3. Inspect and weed around shrubs 4. Remove and replace dead shrubs 5. Inspect rope barrier fence and repair as required 6. Photograph and collect data
<p>Hampton Shore Property #1000009 (approx. 650-foot section of shoreline)</p>	<ol style="list-style-type: none"> 1. Inspect and weed around shrubs 2. Remove and replace dead shrubs 3. Photograph and collect data
<p>Seven Mile Bay Watershed, property #212985 (approx. 100-foot bank length)</p>	<ol style="list-style-type: none"> 1. Inspect and weed around shrubs 2. Remove and replace dead shrubs 3. Photograph and collect data 4. Landowners will be re-educated on the importance of leaving an uncut grass strip along the shore.

Goal #4: Increase forest cover to 30% of the watershed, and have no loss of existing natural forest communities

Objectives	Activities
<p>Identify priority areas that could be converted to forest (e.g. high-risk or marginal agricultural lands)</p>	<p>GPS & map priority areas for conversion to forest</p>
<p>Convert 2 acre (100m X 70m) open field to treed corridor</p>	<ol style="list-style-type: none"> 1. Plant 400 trees and shrubs, property #504902, Eastern School District, to create a corridor connecting to the Westmoreland River

	<ol style="list-style-type: none"> 2. Wrap all vulnerable trees
Convert high risk or marginal agricultural lands to forest cover	<ol style="list-style-type: none"> 1. Plant an additional 50 hardwoods on old TransCanada Highway bed in Tryon adjacent property #465302 2. Prune existing trees 3. Replace any dead trees from previous years 4. Wrap all vulnerable trees 5. Plant 50 white pine at property #405456/208454 6. Contact landowners of priority areas with information on available assistance/incentive programs for planting
Increase the area of forest under stewardship agreements	<ol style="list-style-type: none"> 1. Refer ecologically significant areas to FFW or INT for possible natural areas designation 2. Refer interested landowners to the provincial Forest Enhancement Program 3. Promote forest management planning to landowners via one-on-one meetings, community events and social media
Goal #5: Increase populations of native wildlife; including kestrel, swallow and song birds, bats and insect pollinators.	
Objectives	Activities
Provide nesting/feeding sites for birds	<ol style="list-style-type: none"> 1. Seasonal cleaning/replenishing of nesting material of nest boxes 2. Maintenance/repair of existing boxes 3. Identify areas to add boxes to SSWA inventory 4. Map locations of boxes 5. Create and install bird feeders 6. Promote natural feeding/nesting habitat through tree and shrub planting
Provide seasonal bat homes	<ol style="list-style-type: none"> 1. Build and install bat boxes at the Westmoreland River Nature Park (WRNP) and Noonan Wetlands area. 2. Create a miniature bat cave in bank at WRNP
Increase pollinator populations	<ol style="list-style-type: none"> 1. Plant milkweed for Monarch butterflies and 50 pollinator-friendly shrubs at WRNP 2. Plan for a Monarch butterfly and bee garden in Noonan's Shore wetland area 3. Recheck and weed milkweed planted at Stuchberry Lane in Tryon estuary

Goal #6: Have residents of the watershed actively engaged in watershed management leading to better environmental choices.

Objectives	Activities
<p>Diversify public areas to attract public participation</p>	<p>Westmoreland River Nature Park</p> <ol style="list-style-type: none"> 1. Create a shelter for park visitors (gazebo) 2. Improve existing walkways to make the park as barrier free as possible 3. Inspect lookouts and fishing platform for maintenance 4. Plant 100 rose bushes to create a natural barrier to prevent motorized vehicle access to the park <p>Tryon Trail</p> <ol style="list-style-type: none"> 1. Removed downed trees 2. Prune and wrap trees 3. Improve trail paths 4. Maintain picnic tables <p>Lord's Pond:</p> <ol style="list-style-type: none"> 1. Reposition and secure floating bridge 2. Inspect wooden walkways and fishing platform for maintenance 3. Remove plants from Women's Institute flower garden that will be damaged by restoration project 4. Check pond area for garbage, and assist with grass-cutting and whipper-snipping 5. Maintain tables and signage 6. Install benches <p>Noonan's Shore wetlands</p> <ol style="list-style-type: none"> 1. Lease approximately 3 km² of wetlands by town of Borden-Carleton or SSWA from Provincial Government 2. Grass cutting of all trails, including to fish ladder trail, path to Rolly Pond and grassy knoll where nesting islands are, cut grass at boat launch at Noonan's Pond, cut grass along causeway road for walking path beside road all the way to new hydro lines 3. Plan and outline a distinct walking path along one side of causeway road from beach to

hydro lines, path to fish ladder and path to Rolly Pond. Plan needs to include grading of path for a flat, stable surface, and putting down gravel or woodchips so visitors know it is a safe path. Note: Path to be inclusive for people with disabilities.

4. Wetlands Topical Map sign of the whole wetlands, including salt-water marsh and beach with points of interest (e.g., kestrel nesting boxes, fish ladder, etc.), also the kilometres (e.g., from beach to hydro poles). Note: recognition of 4H Club and kestrel boxes. Assess best placement of sign. Four steel sign poles needed to put up government “No dumping” signs (6–8 ft. length), put signs on poles and place in ground
5. Cut bulrushes at boat launch up to 30 ft. on either side of boat launch at Noonan’s Pond, a "V" formation from edge of water
6. Cut bulrushes along edge of Rolly Pond at site of grassy knoll for optimum viewing
7. Install 3 picnic tables for grassy knoll at Rolly Pond with a sun/shade shelter for 2 tables
8. Install two-story lookout overlooking Noonan’s Pond and Rolly Pond, ideally wheelchair-accessible
9. Assess, plan and cost to build floating gazebo out on Noonan’s Pond beside boat launch, with a wooden floating walkway to gazebo, wheelchair-accessible
10. Assess, plan and cost platform-type lookout over Noonan’s Pond, wheelchair-accessible
11. Install signs in area pertaining to hunting season and any other signs pertaining to important information regarding the Borden-Carleton wetlands

DeSable-Linden Hill Bypass Pond/Catchment

1. Assess dam
2. Do grass maintenance
3. Improve bird boxes

Augustine Cove-Cape Traverse, Webster’s Pond

1. Assess dam
2. Do grass maintenance
3. Improve bird boxes

Richard Point, Camp Abegweit

1. Fell dead and de-branch downed trees to be used as construction materials for nurse logs or mulch for paths
2. Plant uplands where needed

	<ol style="list-style-type: none"> 3. Continue development of walking trail area 4. Obtain and install compostable materials around plantings
Increase Association membership by 25 this year	Promote Association membership to residents via one-on-one meetings, community events and social media.
Provide opportunities for residents to participate in a diversity of Association events	<p>Host at least 10 public/community events this year, including but not limited to:</p> <ol style="list-style-type: none"> 1. Crapaud Exhibition education booth 2. Build a bird feeder workshop 3. “Kiss a Fish” – children’s smelt run event 4. Noonan’s wetlands education event 5. Public event for the whole family at WRNP June 22/19, “Summer Solstice Family Day,” celebrating summer solstice with angling permit covering that day 6. Organize a visit to the WRNP area for the summer schools 7. Tree-planting event at the new Merry Pop-Ins location 8. Interpretive trail walks at Tryon Trail 9. Invasive species education workshop 10. Educational watershed displays at Tryon Museum open for summer months 11. Organize Linden Hill Park Restoration Day
Maintain regular communication with residents and a high profile within the watershed generally	<ol style="list-style-type: none"> 1. Maintain an active Facebook page with regular updates on Association events and activities 2. Maintain SSWA activities blog on summer activities 3. Maintain SSWA website 4. Publish <i>SSWA Tidings</i> newsletter for residents 5. Have at least two stories in local media 6. Promote 7th annual (2019) SSWA Photo Contest 7. Publish 6th edition of Water for Health brochure 8. Implement new SSWA Corporate donor plan 9. Contact potential sponsors for WRNP 10. Develop a membership marketing strategy to engage community and obtain sponsors 11. Provide updates at Chamber of Commerce meetings

Goal #7: Prevent Government infrastructure from negatively effecting watershed.

Objectives	Activities
Partner with local and provincial governments on watershed issues.	<ol style="list-style-type: none"> 1. Communicate with Provincial Government on conditions of road bridges, sediment traps, and culverts 2. Partner with Government for Lord’s Pond spillway and fish ladder project 3. Partner with Borden-Carlton Council <ol style="list-style-type: none"> 1. Creation and maintenance of a public space at Noonan’s Wetlands 2. Leasing of wetlands from PEI Government 4. Partner with Crapaud Council and Victoria Council on <ol style="list-style-type: none"> 1. WR Nature Park maintenance 2. Victoria Provincial Park maintenance 3. Publication of water quality data from Sewer Commission

Goal #8: Restore the ecological integrity of the SSWA environment.

Objectives	Activities
Eradicate invasive plant species from the SSWA environment.	<ol style="list-style-type: none"> 1. Increase public awareness of invasive species issues 2. Identify new species entering watershed <ol style="list-style-type: none"> 1. Invasive species-assigned “spotter” to report to Invasive Species Council any invasive species found 3. Remove invasive species <ol style="list-style-type: none"> 1. Survey designated rivers where stream restoration work is undertaken, and public watershed areas for: 2. Japanese knotweed – remove and smother areas from SSWA parks 3. Purple loosestrife – cut and bag all flowers located 4. Wild cucumber – pull down and uproot all plants located 5. Deadly nightshade (bella donna)– remove from park/trail areas 6. Remove giant hogweed from property #208165 7. Remove glossy buckthorn from Tryon Nature Trail 8. Cut areas of canary grass which have been smothering shrub growth to enhance natural plant growth