BLUE FLAG PROGRAM – 2019 APPLICATIONS & BUDGET REQUEST

RECOMMENDATION:

a) That Council approve the proposed budget for the implementation of the Blue Flag Program for 2019 in the amount of $7,300.00 and referred to the budget process for information.

b) That Council approve that $1,000.00 of the budget balance of $1,500.00 for the Rain Garden Grant program to be ‘rolled over’ to the 2019 budget.

c) That Council approve the expansion of the Rain Garden Grant program to include Soakaways.

d) That Council approve $350.00 of the budget balance for the Natural Beach Signage be ‘rolled over’ to the 2019 budget.

e) That Council approve the submission of applications for a 2019 Blue Flag award at Bayfield Main Beach and Bluewater Marina in Bayfield be submitted to Environmental Defence, the Canadian Operator of the International Blue Flag Program.

BACKGROUND:

The Municipality has received the Blue Flag award for the Bluewater Marina in Bayfield since 2008 and Bayfield Main Beach since 2009. This prestigious eco-award is a source of great pride in the community and demonstrates to residents and visitors that the marina and beach meet high environmental and safety standards. The award is a community sustainability tool that seeks to mitigate the impacts of the tourism economy in Bayfield. The program was initiated at the request of the Bayfield Ratepayers Association and the Bluewater Shoreline Ratepayers Association. Representatives of these organizations became members on the Blue Flag Committee that was responsible to implement the program.

The Municipality became aware in 2014 that a portion of the beach is owned by Pioneer Park Association. A map (Appendix 1) illustrates the boundaries and ownership of the beach area. The map is not completely accurate since the property lines are overlaid on aerial photography.

However, it shows that the area north of Jowett Lane labelled “BW” is an unopened 66’ road allowance. The remainder of the land is owned by Pioneer Park (“PP”) and to the west of PP is owned by the Federal & Provincial Governments. The extent (134 metres) of the Blue Flag Beach is shown on the right side of the map.

Compliance with the program requirements involves the marina operator and their staff and municipal staff including recreation, roads and planning. The Beach Management Committee is an imperative criterion under the program.
The members include the epidemiologist from Huron County Health Unit, Watershed Supervisor from Ausable Bayfield Conservation Authority, a community liaison member, a Pioneer Park Board member, the Planning Co-Ordinator and the Manager of Facilities. The Blue Flag Program is greatly enhanced by the cooperative efforts of these people who contribute additional resources to the Program. There is demonstrable support by many community partners working towards environmental sustainability in Bluewater.

The program requires an annual application that is reviewed by juries at the Regional, National and International levels. The flags are dated so that it is clear that the award is in current compliance with the program requirements. The annual requirements include:

<table>
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<tr>
<th>Annual Requirements</th>
<th>Bluewater Marina in Bayfield</th>
<th>Bayfield Main Beach</th>
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<tbody>
<tr>
<td>Achievement of program criteria: Environmental Education and Information, Environmental Management, Safety &amp; Services, Water Quality</td>
<td>25 criteria</td>
<td>33 criteria</td>
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<td>Delivery of environmental education activities</td>
<td>3 education activities: 2019 Event – Partner Goderich Power &amp; Sail Squadron Article – Healthy River Critters Night at the Pier – Partner Royal Astronomical Society and Bayfield Yacht Club</td>
<td>5 education activities: 2019 Event – Fun at the Library Partner Friends of the Bayfield Library (Ages 4-10) Beach Clean Up – support community clean up Conduct a promotion campaign for Great Canadian Shoreline Cleanup and #2minutebeachclean Stormwater Beach Sampling (partner ABCA) Rain Garden/Soakaway Grant - Partner Clean Water Now</td>
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</tbody>
</table>
Program applications (Appendix 4) are due by January 14th. Once the applications are submitted and the juries approve the environmental activities no changes can be made. For this reason, staff requests that Council approve the proposed budget to ensure the application requirements for educational activities can be completed as submitted. The applications are attached. Please note the appendices are omitted since the same information with some updating is re-submitted each year.

In 2017, I started attributing my wages for time spent working on the Blue Flag Program to the Blue Flag budget. This meant an increase to the Blue Flag budget, with an offsetting reduction to the Planning budget. It is recommended that this practice continue to provide accountability. The estimated impact to the Blue Flag budget is $2,000.00. There was one 2017 applicant for the rain garden grant leaving a balance of $1,500.00 in the budget. This program will continue to be promoted but due to the limited participation thus far, I request that $1,000.00 of the $1,500.00 balance be ‘rolled over’ to the 2019 budget and that the grant program be expanded to include ‘Soakaways’. Additionally, the natural beach signage is still to be installed when the Beach Management Plan is approved. Therefore, I request that $350.00 of the budget balance be ‘rolled over’ to the 2019 budget.

Soakaways (Appendix 5) may be a more approachable tool for home owners to implement lot level stormwater controls on their properties.

In 2018 the Beach Management Committee commissioned a Beach Management Plan. This draft plan will be presented to Council for comment prior to formal adoption later in the year.

Council’s continued commitment to the Blue Flag Program is an indication of the municipality’s environmental leadership. This leadership was identified as a strength during the community consultation in development of Bluewater’s economic development strategic plan.

E.coli results from the 2018 season were excellent. Appendix 2 is the chart of samples. Please note in January 2018 the Province revised the Recreational Water Quality Guideline to match the standards both federally and in the rest of Canada. The e.coli threshold is now 200 cfu/100 ml. There was one exceedance in 26 samples on August 22nd. The geomean of 5 samples was 461 cfu/100 ml that resulted in one swim advisory that was lifted on August 25th.
These otherwise excellent results make Bayfield Main Beach eligible to receive the Blue Flag award in 2019 if the applications are approved.

FINANCIAL IMPACT:
The cost to provide the Blue Flag Program including Planning staff wages, educational activities and supplementary streptococcus testing is $7,300.00. A detailed budget is included at Appendix 3. Council is requested to approve this amount so the Committee can proceed to implement the Program as set out in the 2019 applications.

RELATIONSHIP TO STRATEGIC PLAN: N/A
While the Blue Flag Program is not a new initiative, the Strategic Plan 2016-2021, identifies that continued participation in the Program and achievement of the awards demonstrates the municipality's active promotion of existing recreational amenities as identified in Priority # 6 Quality of Life.

ATTACHMENTS:
Appendix 1 - Map of Blue Flag Beach; photo of current beach extent
Appendix 2 - E.Coli sample results
Appendix 3 - Proposed Blue Flag Program annual 2019 budget
Appendix 4 - 2019 Blue Flag Applications – Bayfield Beach and Bluewater Marina
Appendix 5 - Soakaways Pamphlet

Submitted By:

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Chandra Alexander, Clerk

Concurred:

Ansberth Willert, Manager of Finance
(519) 236-4351 x 230
awillert@municipalityofbluewater.ca
### BAYFIELD MAIN BEACH JUNE 2018
Bayfield Main Beach | Long Hill Road

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*E. coli* Geomean and Site Samples are measured in CFU/100ml
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*E. coli* Geomean and Site Samples are measured in CFU/100ml

### BAYFIELD MAIN BEACH AUGUST 2018

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*E.coli* Geomean and Site Samples are measured in CFU/100ml
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## Lab testing - streptococci

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<tr>
<td><strong>Total</strong></td>
<td>400.00</td>
<td>277.35</td>
</tr>
</tbody>
</table>

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## Misc. Equipment Replacement

<table>
<thead>
<tr>
<th>Activity</th>
<th>Budget 2018</th>
<th>Actual 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Misc. Equipment Replacement</td>
<td>100.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Natural Beach Info Sign</td>
<td>350.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9260.00</td>
<td>5277.35</td>
</tr>
</tbody>
</table>

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## Community Beach Management Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Budget 2018</th>
<th>Actual 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>9260.00</td>
<td>5277.35</td>
</tr>
</tbody>
</table>
Application form for Blue Flag Beaches
2019

INFORMATION ABOUT THE MUNICIPALITY/COMMUNITY:

Name of the municipality: The Corporation of the Municipality of Bluewater
Address: 14 Mill Ave. Zurich, ON N0M 2T0
Region: County of Huron
Community: Bayfield
Telephone number: (519) 236-4351
Fax number: (519) 236-4329
E-mail and website: planninginfo@municipalityofbluewater.ca ; www.municipalityofbluewater.ca

Name and function of contact person: Arlene Parker, Planning Co-Ordinator
Name and function of contact person during holidays: Jeff Newell, Facilities Manager
No. of permanent inhabitants in the community/municipality: 7,500
No. of inhabitants in the community/municipality during the peak season: 12,500
How many beaches are there in the community/municipality? 5
How many beaches in the community/municipality are applying for the Blue Flag? 1

INFORMATION ABOUT THE APPLYING BLUE FLAG BEACH:

a. Beach name: Bayfield Main/Pier Beach
b. Registration or nuts number: n/a
c. GPS coordinates of the beach (one point, central to the beach) N43˚ 56’ 86.5” W81˚ 42’ 32.6”
d. Name of beach operator responsible for the beach management: Municipality of Bluewater
e. Address: see above
f. Telephone number: see above
g. Fax number: see above
h. Email and website: see above
i. Name of contact person during holidays: see above

j. Estimated maximum number of visitors per day: 200
k. Estimated average number of visitors per day: 100
l. Is the beach sandy? Yes: ☐ No: ☒
m. Is the beach rocky? Yes: ☐ No: ☒
n. Are there any kiosks/shops near the site? Yes: ☐ No: ☒
o. Is it a clothing optional beach? Yes: ☐ No: ☒
p. Blue Flag site awarded since: 2009

ENVIRONMENTAL EDUCATION AND INFORMATION

How long is the beach? 440 feet/134 metres
How many information boards are in place? One
Are the information boards nationally standardised with respect to information content and design? Yes: ☒ No: ☐

1. Information about the Blue Flag Program must be displayed. See APPENDIX “B”

1.1 Is the information about the Blue Flag Program displayed on the beach information board? Yes: ☐ No: ☒

1.2 Is the information also posted elsewhere? Major access points: ☐ Lifeguard stations: ☐ Other beach facilities: ☐ Parking areas: ☒ Tourism office: ☐ Municipal website: ☐ Public library ☐

1.3 Please confirm that the information includes: who is responsible at the local, national and international level: ☒ length of the Blue Flag season: ☒ flag will be removed in case of non-compliance: ☒
See APPENDIX "D" – the information is included on the Water Test Results form that is attached to the Info Board.

2. Environmental education activities must be offered and promoted to beach users.

2.1 How many environmental education/information/training projects or activities have been planned for the coming Blue Flag season?  Five activities

2.2 Please indicate which persons, groups and/or organisations are involved in the making of these projects/activities: NGO ☒ Local Agenda 21 Co-ordinator ☒ Rangers ☒ Marine museum ☒ Tourism organisation ☒ others ☒ Health Unit, Conservation Authority, Friends of Bayfield Library.

2.3 Please provide the following information for each of the five activities and include detailed examples and photos in the appendix:

**ACTIVITY 1:**
- Name of the activity: Fun at the Library – Lake Water Quality; partner with Friends of the Bayfield Library
- Goal of the activity: To teach children about water quality; pollution sources
- Target Group: Children age 4-10
- Content/message of activity: Pollution Prevention and Action
- Method used to get the message across: Games, reading, colouring

**ACTIVITY 2:**
- Name of the activity: Beach Clean Up - September
- Goal of the activity: Participate in, promote and support group clean up. Partners: Blue Bayfield, Bayfield River Valley Trail Association, Pioneer Park Association, Love Your Greats and the Lake Huron Centre for Coastal Conservation. Provide trash bags and remove trash to landfill
- Target Group: Residents and visitors
- Content/message of activity: Trash & plastic removal/pollution
- Method used to get the message across: Information to be provided at the event and promoted on municipal facebook page

**ACTIVITY 3:**
- Name of the activity: Rain Garden/Soakaway Installation Grant
- Goal of the activity: To protect 250,000 litres of polluted storm water per year from reaching the Bayfield River and Lake Huron
- Target Group: Residents
- Content/message of activity: Treatment of storm water by installing rain gardens or soakaways
- Method used to get the message across: Partnership with Clean Water Now project. There were no applications for the Rain Garden Grant in 2018. We will offer a grant for Soakaways to increase participation. It may be perceived that a rain garden is complicated or expensive. A soakaway may be a way to increase participation at the individual lot level. Promotional and instructional materials will be prepared

**ACTIVITY 4:**
- Name of the activity: Promote Beach Clean Organizations
- Goal of the activity: To cross promote Blue Flag/clean beaches by extending the reach of two organizations – Great Canadian Shoreline Clean Up and #2minutebeachclean
- Target Group: Residents, visitors, tourists all ages.
- Content/message of activity: Making beach clean ups part of usual summer experience/responsibility
- Method used to get the message across: Brochure, facebook postings (municipal, health unit and conservation authority), municipal website with external links to organizations.

**ACTIVITY 5:**
- Name of the activity: Stormwater Beach Sampling
- Goal of the activity: The goal of this project is to gather water quality data from the stormwater outfalls associated with the Bayfield Beach. This information will help in determining whether the stormwater coming from Bayfield is having an impact on the beach. Engage the community in developing knowledge about local water quality.
- Target Group: Residents, agencies, Beach Management Committee
- Content/message of activity: Four residents were trained as Citizen Scientists to do the sampling. Each person belongs to a different community group. This direct engagement increases communication and education opportunities with residents and visitors.
- Method used to get the message across: Press release; articles in local news; notices to community groups; data to relevant agencies for analysis.
2.4 Is the information about the activities posted on the beach information board? Yes: ☑ No: ☐

2.5. Are there any sensitive nature areas (including Marine Protected Areas) near the Blue Flag beach? Yes: ☐ No: ☑

a. If yes, please give details:

2.6 Is there an environmental interpretation centre or similar permanent public environmental education place within the community/municipality? Yes: ☐ No: ☑

a. If yes, please give details: Information provided at Municipal Office, on municipal website.

2.7 If the beach had the Blue Flag the previous year, please list the activities that were held and make a short assessment on the success of these activities (did many people participate, what was the outcome, etc). Try to focus on how these activities could be improved for the future:

**ACTIVITY 1:**
- Name of the activity: Community Beach Management Plan
- Dates of the activity: 2018-2019
- Assessment of the activity: The Plan is needed to create a shared understanding of the best practices for beach management. The draft Beach Management Plan was prepared by the Lake Huron Centre for Coastal Conservation, Beach Management Committee members and the Lifesaving Society. A public information session was held in September that was attended by 24 people. One of the beach owners requested to extend the comment period for their members until August 2019. (Pioneer Park Association). The plan will be implemented after formal adoption by the owners in late 2019 and beyond
- The draft Plan is attached at APPENDIX “N”

**ACTIVITY 2:**
- Name of the activity: Conduct a ‘Stormwater Stroll’ to explore and discuss recent rain garden installations; educate residents on stormwater quantity and quality controls to improve water quality.
- Dates of the activity: Summer 2018
- Assessment of the Activity: The stroll was a self guided tour with information to promote the rain garden grant. The tour is well put together. We will promote it more in 2019.
- Web page and associated materials at APPENDIX “N”

**ACTIVITY 3:**
- Name of the activity: Rain Garden/Soakaway Installation Grant
- Dates of the activity: Spring/Summer/Fall 2018
- Assessment of the Activity: There were no applications for the Rain Garden Grant in 2018. We will offer a grant for Soakaways to increase participation. It may be perceived that a rain garden is complicated or expensive. A soakaway may be a way to increase participation at the individual lot level. Promotional and instructional materials will be prepared
- General information at APPENDIX “N”

**ACTIVITY 4:**
- Name of the activity: Natural Beach Information Sign
- Dates of the activity: Summer 2018
- Assessment of Activity: Since beach signage is addressed in the Beach Management Plan that is to be implemented in late 2019 and 2020, the sign will be incorporated into a new signage plan and associated structure

**ACTIVITY 5:**
- Name of the activity: Stormwater Beach Sampling
- Dates of the activity: 2018 Season
- Assessment of the Activity: Stormwater sampling over the past 2 years has indicated which outlets have historical quality issues. The installation of rain gardens in the area of one stormwater outlet has resulted in no flow much of the time. Indicates the efficacy of rain gardens in retaining storm water. The remaining outlets will continue to be sampled.
- Report to be finalized and distributed in early 2019.

3. Information on recreational water quality must be displayed.

3.1 Is updated information (always less than one month old) about bathing water quality displayed at the beach information board? Yes: ☑ No: ☐
3.2 Is the information also posted elsewhere? Major access points: ☐ Lifeguard stations: ☐ Other beach facilities: ☐ Parking areas: ☐ Tourism office: ☐ Huron County Health Unit website

3.3 Please confirm that the information includes: Interpretation of the table/figures: ☐ Statement that the flag will be removed in case of non-compliance: ☐ See APPENDIX "D"

3.4 Is it presented in a format that is easily read and understood by the public regardless of language? Yes: ☑ No: ☐

a. Please describe this format: The information format has been standardized and provided by Blue Flag Canada.

4. Information relating to local ecosystems and environmental phenomena must be displayed.

4.1 Are there any natural sensitive areas (including marine protected areas) or valuable cultural sites in the coastal zone? Yes: ☑ No: ☐ Natural sensitive areas are not on the beach but within 1 km

a. If yes, do you display information about these areas at the beach information board? Yes: ☑ No: ☐ If no information is displayed, please describe why: ______________________

b. If yes, is the information also displayed elsewhere? At the sensitive area: ☐ Tourist sites: ☐ Tourist office: ☐ Tourist brochure/newspaper: ☐ This information is posted on the municipal website.

c. If yes, does the information include information about appropriate behaviour in the area? Yes: ☑ No: ☐

d. If yes, briefly describe these areas: Dune & bluff ecosystems within 1 km of the beach

e. If the sensitive area is an underwater area, is there specific information for divers and snorkelers? Yes: ☑ No: ☐ N/A – not an underwater area.

f. If yes, which local conservation groups (including Marine Protected Area management) have been contacted for advice on management techniques/appropriate conduct for these areas?

g. If no, Do you display information about environmental ecosystems or local phenomena? Yes: ☑ No: ☐ Please describe the information displayed: See APPENDIX "E"

h. Which local groups have been contacted for advice on this information? The Lake Huron Centre for Coastal Conservation

5. A map of the beach indicating different facilities must be displayed. See APPENDIX "B"

5.1 Is a map of the beach indicating facilities displayed on the beach information board? Yes: ☑ No: ☐

5.2 Does the map show the location of the following?

<table>
<thead>
<tr>
<th>Feature</th>
<th>Yes: ☑ No: ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;You are here&quot; pointers</td>
<td></td>
</tr>
<tr>
<td>Demarcation of Blue Flag area</td>
<td></td>
</tr>
<tr>
<td>Lifeguards or lifesaving equipment</td>
<td></td>
</tr>
<tr>
<td>First aid equipment</td>
<td></td>
</tr>
<tr>
<td>The area patrolled (beaches with lifeguards)</td>
<td></td>
</tr>
<tr>
<td>Telephones (during Marina hrs. only)</td>
<td></td>
</tr>
<tr>
<td>Toilets (including toilets for disabled)</td>
<td></td>
</tr>
<tr>
<td>Drinking water</td>
<td></td>
</tr>
<tr>
<td>Car and bicycle parking</td>
<td></td>
</tr>
<tr>
<td>Authorized camping sites at/near the beach</td>
<td></td>
</tr>
<tr>
<td>Larger waste receptacles</td>
<td></td>
</tr>
<tr>
<td>Recycling facilities</td>
<td></td>
</tr>
<tr>
<td>Water sampling points</td>
<td></td>
</tr>
<tr>
<td>Access points and access for disabled</td>
<td></td>
</tr>
<tr>
<td>Foot paths</td>
<td></td>
</tr>
<tr>
<td>Zoning (swimming, sailing, surfing etc)</td>
<td></td>
</tr>
<tr>
<td>Storm water outlets</td>
<td></td>
</tr>
<tr>
<td>Rivers and inflows</td>
<td></td>
</tr>
<tr>
<td>Nearby natural sensitive areas</td>
<td></td>
</tr>
<tr>
<td>Local landmarks (where applicable)</td>
<td></td>
</tr>
<tr>
<td>Nearby public transport</td>
<td></td>
</tr>
<tr>
<td>Scale bar</td>
<td></td>
</tr>
<tr>
<td>Direction (North)</td>
<td></td>
</tr>
</tbody>
</table>
a. For any of the above marked No, please describe why these are not marked on the map: The beach is quite small therefore the You are Here, Blue Flag area are evident. Access is at grade and there are no footpaths. Stormwater outfalls were mapped after infoboard installation. They were discovered during rain events.

5.3 Does the map use pictograms to show the features listed above? Yes: ☑ No: ☐

6. Code of conduct for the beach area must be displayed and the laws governing beach use must be easily available to the public upon request.

6.1. Is the information about the beach code of conduct displayed at the beach information board? Yes: ☑ No: ☐

6.2 Does the beach code of conduct include the following: rules about the presence of domestic animals: ☑, zoning: ☑, using trash bins: ☑, vehicles on the beach: ☑, camping: ☑, fires: ☑, times of lifeguard duty and the area patrolled ☑, the times of first aid availability ☑, explanation of the emergency flag system ☑, emergency phone numbers ☑

6.3. Are there laws governing beach use available to the public? Yes: ☑ No: ☐

WATER QUALITY

7. The beach must fully comply with the water quality sampling and frequency requirements.

7.1 Have the samples been taken according to the requirements regarding frequency (minimum five samples per bathing season)? Yes: ☑ No: ☐

7.2 Are there any streams, rivers or other inlets entering the beach? Yes: ☐ No: ☑ - Not directly.

a. If yes, is sampling done near the mouth of the stream or river?

b. If yes, do the samplings record any effect on the bathing water quality?

8. The beach must fully comply with the standards and requirements for water quality analysis.

8.1 How many sampling sites does the beach have? 5 sample sites at one location

8.2 Is an independent person officially authorised/trained for collecting the samples? Yes: ☑ No: ☐

8.3 Is an independent person officially authorized to collect the samples? Yes: ☑ No: ☐

8.4 Name, address and telephone/fax number of the laboratory responsible for analysing the bathing water quality samplings: E. coli: Ontario Ministry of Health, Public Health Laboratory, Regional Public Health Laboratory – London, 850 Highbury Ave. Box 5704, Terminal A, London, ON N6A 4L6 Ph: 519-455-9310 Fax: 519-455-3363

Streptococci: ALS Canada Ltd, 309 Exeter Road Unit # 29, London, ON N6L 1C1 Ph: 519-652-6044 Fax: 519-652-0671

8.4 Is the laboratory accredited to carry out the analyses? Yes: ☑ No: ☐ See APPENDIX "F"

a. Please indicate the type of accreditation and give the accreditation number for the laboratory: Ontario Ministry of Health: Ministry of the Environment #2210, Canadian Association for Environmental Analytical Laboratories Inc. (CAEL) #3366, Standards Council of Canada #559

See APPENDIX “F” For copies of accreditation details for ALS Canada Ltd.

8.5 What methods of analysis does the laboratory use?

a. faecal coliform / E.coli bacteria? Membrane filtration

b. faecal streptococci / intestinal enterococci? Membrane filtration

c. physical-chemical measurements? Visual inspection

8.6 Is there compliance regarding procedure and policy with the Blue Flag water quality requirements?

a. for faecal coliform bacteria / E.coli? Yes: ☑ No: ☐

b. for faecal streptococci / intestinal enterococci? Yes: ☑ No: ☐

d. for physical-chemical measurements? Yes: ☑ No: ☐ Visual inspection

8.7 Is there a sampling calendar? Yes: ☑ No: ☐

8.8 Is there a four year sampling history? Yes: ☑ No: ☐

9. No industrial, waste-water or sewage-related discharges should affect the beach area.

9.1 Are there any discharges of urban or industrial waste water to the beach? Yes: ☐ No: ☑
9.2 Are there any industrial facilities or plants in the vicinity that could potentially have an influence on the surrounding coastal environment? Yes: ☐ No: ☒
   
a. If yes, please describe the facilities and their potential effects: ____________________________

b. If yes, please describe how it is ensured that the there is no threat to public health or environmental hazard from the nearby industrial facility: ____________________________

9.3 Do the collection, treatment and discharge of urban wastewater in the community meet the national/provincial standards and legislation? Yes: ☒ No: ☐

a. If no, please describe how and why: ____________________________

9.4 Is there any untreated waste water released anywhere in the community? Yes: ☐ No: ☒

a. If yes, specify source, release and approximate number of untreated releases: ____________________________

9.5 Is the beach affected by waste brought onto land from the water? Yes: ☐ No: ☒

a. If yes, what remedial actions are taken? ____________________________

9.6 Is there a bathing water profile? Yes: ☒ No: ☐ See APPENDIX "L"

10. The beach must fully comply with the Blue Flag requirements for the microbiological parameters faecal colibacteria (E.coli) and faecal enterococci / streptococci.

10.1 Is the 95th percentile used in the calculation of the samples? Yes: ☐ No: ☒

10.2 Are the samples within the required limit values for E.coli? Yes: ☐ No: ☒ N/A

11. The beach must fully comply with the Blue Flag requirements for the physical-chemical parameters.

11.1 Is the beach monitored for the physical-chemical parameters: the pH value, oils, and floatables? Yes: ☐ No: ☒ the beach is monitored for oils, floatables and other unusal conditions

11.2 Have any abnormal changes been detected in colour, transparency and turbidity of the water? Yes: ☐ No: ☒ See APPENDIX "C" testing results from 2018

ENVIRONMENTAL MANAGEMENT

12. The local authority or beach operator must establish a beach management committee.

12.1 Do you have a beach management committee? Yes: ☒ No: ☐

12.2 Please list the committee members and their affiliations (i.e. beach manager, lifeguard, education expert, Marine Protected Area representative, special user group, special interest group): Municipal representative(s), Health Unit, Conservation Authority, Beach Owner.

12.3 Please indicate the activities of the beach management committee in the past year: Municipal representatives monitored the beach re: safety equipment, trash, recycle. Committee met six times. Health Unit conducted full updated pollution profiles for the beach.

13. The local authority or beach operator must comply with all regulations affecting the location and operation of the beach.

13.1 Is there a land use and development plan for the shoreline area? Yes: ☒ No: ☐
a. If yes, is the beach and immediate hinterland (including location and use/operation of facilities and structures) in full compliance with the land-use/development plan and other relevant environmental legislation? Yes: ☑ No: ☐

b. If no, please explain why not: ____________________________________________________________

13.2 Are the beach licenses and statutory permits posted on the information board? Yes: ☐ No: ☑ No licences or permits are required

14. Sensitive Area management

14.1 Is your Blue Flag beach in or near a sensitive area such as an Important Bird Area (IBA), Area of Natural and Scientific Interest (ANSI), Environmentally Significant Area (ESA), habitat for Species At Risk, or any other sensitive ecosystem such as sand dunes? Yes: ☑ No: ☐

a. If yes, do you consult with a local expert such as a conservation authority or the MNR to ensure suitable ecosystem conservation and biodiversity goals? Yes: ☑ No: ☐

b. If yes, please elaborate: ____________________________________________________________

15. The beach must be clean

15.1 Does the beach comply with national guidelines concerning litter? Yes: ☑ No: ☐

15.2 Is the beach, surrounding area, paths, parking areas and access points to the beach clean and maintained at all times? Yes: ☑ No: ☐

15.3 How often is it cleaned? Litter is cleaned as often as necessary.

15.4 By what methods is it cleaned? Litter is picked up manually by municipal staff. Manual beach cleaning (hand raking) was carried out in 2018. However, machines were necessary on the beach to remove very large trees that washed up during the winter.

15.5 Do you determine the cleanliness of the beach by applying the Measuring System for Beach Litter? Yes: ☐ No: ☑

15.6 If so, what is the average cleanliness level at this beach (on the scale from A+ to D) according to the Measuring System for Beach Litter? ____________________________

15.7 Are there turtle or shorebird nesting areas on/near the beach? Yes: ☑ No: ☐

15.8 When cleaning the beach, do you make sure that these areas are left in peace? Yes: ☑ No: ☐

16. Algae vegetation or other natural debris should be left to decay on the beach.

16.1 Are algae or other vegetation present on the beach? Yes: ☑ No: ☐

16.2 Are the algae or other vegetation left on the beach unless it constitutes a nuisance? Yes: ☑ No: ☐ N/A

a. If no, please explain why: ____________________________________________________________

16.3 Are the removed algae or vegetation disposed in an environmentally friendly way? Yes: ☑ No: ☐ N/A

a. Please describe how they are disposed of: _________________________________________________

17. Waste disposal bins/containers must be available on/by the beach in adequate numbers and they must be regularly maintained.

17.1 Are there enough litter bins on the beach (or larger receptacles at the beach access points) and are they well secured, maintained and spaced appropriately? Yes: ☑ No: ☐

17.2 Are they regularly emptied as needed for the use of the beach? Yes: ☑ No: ☐ How often are the litter bins emptied during peak season? _______ times per week. As often as required at least once daily during the season.
17.3 Does your litter go to an approved disposal site? Yes: ☒ No: ☐
   a. If yes, which? Municipal landfill
   b. Please give the licence / authorization code of the disposal site (or alternatively enclose the waste permit):
      Ministry of Environment Certificate of Approval # A162002
   c. If no, where and under what circumstances is litter disposed of? ________________________________

18. Facilities for the separation of recyclable waste materials should be available at the beach.
   18.1 Is there a local/municipal recycling program or facilities? Yes: ☒ No: ☐
   18.2 Are there receptacles on the beach for receiving recyclable materials? Yes: ☐ No: ☐
   a. Please list the types of materials that can be received: Glass, plastic, paper
   18.3 Are they regularly emptied as needed for the use of the beach? Yes: ☒ No: ☐
   18.4 If less than 3 kinds of materials are not received please explain why: ________________________________

19. An adequate number of toilet or restroom facilities must be provided.
   19.1 Are there adequate sanitary facilities for the peak number of users? Yes: ☐ No: ☒
   a. Please give the number of toilets: Two
   b. Are they equipped with a washbasin, soap and clean towels or a dryer? Yes: ☒ No: ☐

20. Toilet or restroom facilities must be kept clean
   20.1 Are the sanitary facilities kept clean at all times? Yes: ☒ No: ☐
   a. How often are they cleaned? As often as necessary
   b. Are environmentally friendly materials used? Yes: ☐ No: ☒

21. Toilet or restroom facilities must have controlled sewage disposal.
   21.1 Please specify type of sewage disposal from the toilets and other sanitary wastewater (i.e. connection to community septic system or septic tank): Connection to municipal sanitary waste treatment facility

22. On the beach there will be no unauthorised camping or driving and no dumping.
   22.1 Is driving permitted on the beach? Yes: ☐ No: ☒
   a. If yes, how is it regulated? ________________________________
   22.2 Is camping allowed on the beach? Yes: ☐ No: ☒
   a. If yes, is this taking place in areas specifically zoned for this use and load capacity? Yes: ☐ No: ☒
   22.3 Are there by-laws prohibiting unauthorized driving, dumping and camping on the beach?
      Camping Yes: ☒ No: ☐
      Driving Yes: ☐ No: ☒
      Dumping Yes: ☐ No: ☒
   22.4 Is there any unauthorized camping, driving or dumping on the beach?
      Camping Yes: ☐ No: ☒
      Driving Yes: ☐ No: ☒
      Dumping Yes: ☐ No: ☒
   22.5 Are there any beach events involving the use of vehicles or camping being held on the beach? Yes: ☐ No: ☒
22.6 Is there parking for emergency vehicles in close proximity to the beach? Yes: ☑ No: ☐

23. Access to the beach by dogs and other domestic animals on the beach must be strictly controlled.

23.1 Are there national laws or local bye-laws concerning animals on the beach? Yes: ☑ No: ☐

23.2 Are domestic animals allowed on the beach? Yes: ☐ No: ☑ By-law Number 34 - 2015

a. If yes, please describe the code of conduct for domestic animals on the beach:

b. If yes, please describe the measures taken to ensure that no faecal matter contaminates the beach: Dog waste station provided

24. All buildings and beach equipment must be properly maintained.

24.1 Are all buildings and equipment on the beach properly maintained? Yes: ☑ No: ☐

24.2 Are environmentally friendly products used to maintain the buildings/equipment? Yes: ☑ No: ☐

24.3 Are there any construction projects going on in the beach area? Yes: ☐ No: ☑

a. If yes, please describe: __________________________________________________________

25. Marine and freshwater sensitive habitats (such as coral reefs or sea grass beds) in the vicinity of the beach must be monitored

25.1 Is there a sensitive habitat (coral reef or sea grass bed) located within 500 meters from any part of the beach? Yes: ☐ No: ☑

a. If yes, has a "Reef Check" coral reef or sea grass bed monitoring programme been established? Yes: ☑ No: ☐

b. Is it the first time that the "Reef Check" coral reef or sea grass bed monitoring programme has been carried out? ☐ or indicate the year of the last "Reef Check" coral reef or sea grass bed monitoring programme: _____

c. Has a local "Reef Check" or sea grass bed team been established? Yes: ☐ No: ☑

d. Please confirm that information is collected concerning: Site description: ☐, fish counts: ☐, invertebrate counts: ☐, substrate type measurements: ☐

e. Has the collected information been reported to "Reef Check" and relevant monitoring bodies? Yes: ☑ No: ☐

26. Sustainable means of transportation should be promoted in the beach area.

26.1 Is the local community or the beach operator promoting sustainable means of transportation? Yes: ☑ No: ☐

a. If yes, please explain how: A pedestrian walkway links the beach with the Main St. shopping, dining and a trail system.

26.2 Does the local authority or beach operator have a traffic management plan regarding the traffic to/from the beach? Yes: ☑ No: ☐

26.3 Is there information about sustainable transportation posted on the beach information board? Yes: ☑ No: ☐

SAFETY AND SERVICES

27. An adequate number of lifeguards and/or lifesaving equipment must be available at the beach.

27.1 Has a safety risk assessment been carried out? Yes: ☑ No: ☐ * No incidents have occurred at Bayfield Main Beach

a. If yes, what year? 2018

b. If yes, by which body? The Canadian Lifesaving Society

Report recommendations to be addressed in 2019.

c. If yes, has an appropriate response strategy to the assessment been assured? Yes: ☑ No: ☐

d. Please describe: A lifesaving station is provided on the beach.

27.2 Are there lifeguards on duty on your beach during the bathing season? Yes: ☑ No: ☐
a. If yes, please specify when during the season and what hours during the day: ____________________________________________

27.3 Do the lifeguards have a national/international certification? Yes: ☐ No: ☐
   a. According to what requirements are the lifeguards trained? ____________________________________________

27.4 Do the lifeguards wear an easily identifiable uniform? Yes: ☐ No: ☐

27.5 How is the lifeguarded area defined?
   - on the beach map? Yes: ☐ No: ☐
   - with flags or markers? Yes: ☐ No: ☐

27.6 Is there adequate public lifesaving equipment? Yes: ☐ No: ☐
   a. What type of lifesaving equipment? ☒ Life buoys ☐ torpedo buoys ☐ throw bags incl. throwing lines ☐ life boat/raft ☐ emergency phone ☐ other equipment: Life hook
   b. Distance between equipment: 1 set provided at beach

27.7 Is the period of presence of lifeguards and/or location of public lifesaving equipment clearly marked on the beach information board or on the lifeguard station? Yes: ☐ No: ☐

27.8 Is an explanation of the emergency flag system provided? Yes: ☐ No: ☐

28. First aid equipment must be available on the beach.

28.1 Is first aid available on the beach? Yes: ☐ No: ☐
   a. If no, please explain why: ____________________________________________
   b. Is it attended or unattended? Attended ☐ Unattended ☑

28.2 Is the location of the first aid marked on the beach information board? Yes: ☐ No: ☐

29. Emergency plans to cope with pollution safety risks must be in place. See APPENDIX “H”

29.1 Is the community part of a local and/or regional emergency plan to cope with pollution accidents? Yes: ☐ No: ☐

29.2 Is this plan in compliance with other national emergency legislation for the area? Yes: ☐ No: ☐

29.3 Does the emergency plan include a scheme to secure that the public is informed about pollution accidents? Yes: ☐ No: ☐

29.4 Does the emergency plan cover clean-up operation? Yes: ☐ No: ☐

29.5 Does the emergency plan specify the role of the local persons? Yes: ☐ No: ☐

29.6 Is an emergency simulation exercise being conducted annually? Yes: ☐ No: ☐
   This is not a requirement under the Ontario provincial legislation

29.7 Are emergency phone numbers available at the information board? Yes: ☐ No: ☐

30. There must be management of different users and uses of the beach so as to prevent conflicts and accidents.

30.1 Are there overlapping needs among beach user groups in the beach area (e.g. water sport users and swimmers, etc.)? Yes: ☐ No: ☐
   a. If yes, please detail the overlap and how conflict is avoided: A swim zone is shown on the information board and buoys are installed to delineate the swim area.

30.2 In what way is the zoning enforced? Buys ☒. Signage ☐. Lifeguards ☐. Other ways: ☐
   Canada Shipping Act (Small Vessel Regulations, Vessel Operation Restriction Regulations) enforced by the OPP while out on patrol
30.3 Are human activities managed accordance with an environmental plan that protects sensitive species and habitats at the beach? Yes:  No:  There are no sensitive species or habitats at the beach.

a. If yes, please describe: __________________________________________________________

30.4 If the beach has some particular sensitive feature, what local conservation group has been approached for advice on the management of this? __________________________________________________________

30.5 Is the zoning of the beach clearly defined on the beach map? Yes:  No:  There are no sensitive species or habitats at the beach.

31. There must be safety measures in place to protect the users of the beach.

31.1 How is it assured that the access to the beach is safe? Please describe the access briefly (wooden walkways, steps, ramps, pedestrian crossings, etc.):  The beach is at grade with the adjacent parking area.

31.2 Is there access to the beach for the general public? Yes:  No:  

a. Is a fee required? Yes:  No:  If yes, please indicate size of fee/currency: ______

31.3 Is the beach area patrolled? Yes:  No:  

31.4 Are the guards trained and qualified? Yes:  No:  

31.5 Are the guards easily identifiable? Yes:  No:  

32. A supply of potable drinking water should be available on the beach.

32.1 Is there a source of drinking water? Yes:  No:  

a. If yes, how is it protected from contamination by animals? It is indoors

33. At least one Blue Flag beach in each municipality must have access and facilities provided for the physically disabled.

33.1 Does this beach have access ramps for disabled people? Yes:  No:  

33.2 Does this beach have toilet facilities for disabled people? Yes:  No:  

33.3 Number of toilets for disabled people? Two

33.4 Does this beach have access to the water for the physically disabled (amphibian wheelchair or ramp in the water)? Yes:  No:  

33.5 Does this beach have access to the water for the visually disabled? (equipment such as sound equipment for water, devices for adaptive water sports or others)? Yes:  No:  

a. If no to either of these (except 33.4), please specify which Blue Flag beach(es) in the municipality have access ramps and toilets for disabled people: __________________________________________________________

b. If there are no Blue Flag beaches in the municipality with facilities for disabled people, please describe why not: __________________________________________________________

33.6 Has an organisation for disabled people been contacted to ensure access and facilities are efficient? Yes:  No:  

If yes, which organization, please elaborate? __________________________________________________________

33.7 Do the access and toilet facilities for disabled people comply with national/international standards? Yes:  No:  

33.8 Is there reserved parking for disabled people? Yes:  No:  

THE BLUE FLAG COMMITMENT

This application is to be considered as a contract between the municipality, the beach operator and FEE. By signing we confirm that the information given above is correct and that the obligations will be fulfilled.

The responsible local authority and beach operator undertakes to remove the Blue Flag if an imperative criterion no longer is fulfilled and to inform each other and the national Blue Flag office immediately.

We are informed that the national and the International Blue Flag juries reserve the right to refuse or withdraw the Blue Flag where the beach operator or local authorities are responsible for current violations of national environmental regulations or otherwise act in discord with the objectives and spirit of the International Blue Flag Program.

Community/municipality: The Corporation of the Municipality of Bluewater

Date:

Kyle Pratt
Chief Administrative Officer
ENCLOSURES

- **APPENDIX “A”** One large scale map, showing the extent and delimitation of the area(s) for which the Blue Flag is (are) applied for. This map must indicate access roads, the type of surrounding area (town, resort, rural), protected or sensitive natural areas and potential sources of pollution and their distances to the bathing area (e.g. storm water outflows, streams/rivers in neighbouring coastal stretches).

- **APPENDIX “B”** A detailed map of the beach (see criteria 5)

- **APPENDIX “B”** A copy of the information at the beach information board, including the beach map

- **APPENDIX “C”** The bathing water test results from the entire previous season.

- **APPENDIX “D”** Water sample results posting form

- If there are any natural sensitive areas in the coastal zone please enclose a copy of any publicly displayed information about these areas.

- **APPENDIX “E”** If there are no natural sensitive areas, please enclose a copy of the environmental information displayed on the information board.

- If there is a natural sensitive area (including Marine Protected Area), please enclose information on how this area is monitored and by whom.

- **APPENDIX “F”** Copy of accreditation documents for lab that analyzes streptococci samples.

- **APPENDIX “G”** Please submit a copy of the relevant part of the land-use and development plan concerning the coastal zone.

- If the community/municipality has got a litter management plan, please enclose a copy of the relevant parts.

- **APPENDIX “H”** Please submit a brief description of the emergency plan, including who is responsible for what.

- **APPENDIX “I”** If the community/municipality has a traffic management plan, please submit a copy of the relevant parts.

- **APPENDIX “J”** Information about the latest information about collection system, level of treatment, and number of samples and quality of the effluent water after treatment

- **APPENDIX “K”** Monitoring calendar established prior to the start of the bathing season

- **APPENDIX “L”** Bathing Water profile

- **APPENDIX “M”** Pollution profile

- **APPENDIX “N”** Education Activity Samples
Application form for Blue Flag Marinas 2019

INFORMATION ABOUT THE APPLYING MARINA

a. Name of marina: Bluewater Marina in Bayfield
b. Address of marina: 33 Long Hill Road, Bayfield, On N0M 1G0
c. Municipality/community: The Corporation of the Municipality of Bluewater
d. Region: Huron County
e. Telephone number: (519) 236-4351 x 235
f. Fax number: (519) 236-4329
g. E-mail: planninginfo@municipalityofbluewater.ca
h. Website: www.municipalityofbluewater.ca
i. GPS coordinates of marina (latitude and longitude): N43° 56' 86.5" W 81° 42' 32.6"
j. Name, address and telephone number of contact person:
   Municipality of Bluewater, 14 Mill Ave, Zurich, ON N0M 2T0
   Attn: Arlene Parker, Planning Co-Ordinator (519) 236-4351 x 235
k. Information text about the marina (around 100 words) for the International Blue Flag website:
   The Bluewater Marina in Bayfield is a municipal facility located on the south side of the Bayfield River at the
   mouth of the river as it empties into Lake Huron. There are 60 seasonal berths and 20 guest berths at the
   marina. The facility offers pump out service, 20, 30 and 50 amp electric service, washrooms and showers.
   The marina is equipped with a public phone, first aid and lifesaving equipment. Wireless internet service,
   picnic tables and a pet waste station are provided. There is beach access and a public launch nearby. The
   world famous Lake Huron sunsets are viewable from the marina. The Bluewater area of the Lake Huron coast
   is part of the Great Lakes dune system, which due to their extreme rarity and ecological fragility have been
   suggested to be of national significance. There are also sensitive bluffs along the shoreline in the Bluewater
   area.

l. Number of berths at the marina: 60 seasonal berths
m. Number of guest berths at the marina: 20 guest berths
n. Is there any shop/kiosk near/at the marina: No
ENVIRONMENTAL EDUCATION AND INFORMATION

1. Information relating to local ecosystems and environmental phenomena must be available to marina users (i)

1.1 Are there any nearby sensitive, natural areas? Yes: ☒ No: ☐

1.2 Are there any nearby sensitive, natural marine/aquatic areas? Yes: ☐ No: ☒

1.3 If there are any nearby natural sensitive areas, please briefly describe them:
Coastal dune systems and sensitive bluff areas are located along the shoreline of Lake Huron and in the area of the Bluewater Marina.

1.4 If there are any nearby sensitive, natural areas, is information about these areas (including a code of conduct for proper behaviour) posted at the marina information board? Yes: ☒ No: ☐

1.5 Please describe the information briefly (or enclose a copy of the information):
See APPENDIX “A” copy of infoboard that was installed as per 2009 criteria.

1.6 If there are no nearby sensitive areas, does the marina display information about environmental ecosystems or local phenomena? Yes: ☐ No: ☒
Please describe the information displayed:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

1.7 Which local groups have been contacted for advice on this information? ________________
________________________________________________________________________
________________________________________________________________________

1.8 Has the marina other environmental information posted at the information board? Yes: ☒ No: ☐

a. If yes, please describe the other environmental information briefly (or enclose a copy of the information):
The Environmental Code of Conduct is on the Infoboard.

2. A code of conduct that reflects appropriate laws governing the use of the marina and surrounding areas must be displayed at the marina (i).  

2.1 Is the environmental code of conduct displayed at the information board? Yes: ☒ No: ☐
See APPENDIX “A”

2.2 Does the environmental code of conduct include the following information?

a. Use of reception facilities for hazardous waste / oil waste? Yes: ☒ No: ☐ n/a: ☒
   Please explain: __________________________________________________________________
   __________________________________________________________________
   __________________________________________________________________

b. Use of the garbage containers / litterbins / waste recycling facilities? Yes: ☒ No: ☐ n/a: ☒
   Please explain: __________________________________________________________________
   __________________________________________________________________
   __________________________________________________________________

 c. Respect for sensitive protected natural areas? Yes: ☒ No: ☐ n/a: ☒
   Please explain: Natural area is shown on front of the Infoboard. Bluff conservation & Environmental Code of Conduct are shown on the rear of the Infoboard.

 d. Avoidance of sensitive protected areas where sailing is prohibited? Yes: ☐ No: ☐ n/a: ☒
   Please explain: There are no prohibited areas in the harbour.

e. Use of the boat-repairing and washing areas according to the prescriptions? Yes: ☒ No: ☐ n/a: ☒ (please explain) There are no boat-repairing or washing areas in the Marina. The code explains that only small repair work is permitted.

f. Prohibition of emptying litterbins, toilet tank waste etc into the marina, sea or along the coast? Yes: ☒ No: ☐ n/a: ☒ (please explain): __________________________________________________________________
   __________________________________________________________________
   __________________________________________________________________
g. Use of the toilet tank waste facilities? Yes: ☒ No: ☐ n/a: ☐ (please explain): Not a criteria at time of Infoboard installation. Boats are required to use Municipal facility.

2.3 Is the marina code of conduct displayed in other ways? Yes: ☒ No: ☐

a. If yes, please describe in which ways (leaflets, website, etc): Marina Office, handout, Blue Flag pages on Municipal website, Marina manual.

3. Information about the Blue Flag marina program and/or the Blue Flag marina criteria must be displayed in the marina (i)

3.1 Is information about the Blue Flag marina program and/or criteria posted at the information board? Yes: ☒ No: ☐

4. The marina is responsible for offering at least three environmental education activities to the users and staff of the marina (i)

4.1 How many environmental education activities are planned? 3

4.2 Please describe each of the 3 major planned activities:

ACTIVITY 1:

a. Name of the activity: Love Your Greats – partner with LoveYourGreets
b. Short description of the activity: Booth at marina – greet members and guests – talk about love your greats – promote loveyour greats, 2 min beach clean, etc. etc.
c. Type of activity: brochure/poster: ☐ event: ☐ environmental education project: ☒
   Blue Flag Centre: ☒ other type of activity: ☐ (please describe):
d. Target group: club members: ☒ marina guests: ☒ children: ☒ local public: ☒ marina staff: ☐ other target group: ☐ (please describe): Bayfield Yacht Club

ACTIVITY 2:

a. Name of the activity: River Critters – news article in local news – partner with Conservation Authority
b. Short description of the activity: News article to be submitted for publishing in local news – Bayfield River habitat
c. Type of activity: brochure/poster: ☐ event: ☐ environmental education project: ☐
   Blue Flag Centre: ☐ other type of activity: ☒ (please describe):
d. Target group: club members: ☒ marina guests: ☒ children: ☒ local public: ☒ marina staff: ☐ other target group: ☒ (please describe): fishers, residents

ACTIVITY 3:

a. Name of the activity: Night at the Pier – partner with Royal Astronomical Society and Bayfield Yacht Club
b. Short description of the activity: An evening event during summer at the west end of the pier to: explore the stars over the water using high powered telescopes and to learn how to navigate by the stars. Talk about dark sky lighting initiative
c. Type of activity: brochure/poster: ☐ event: ☒ environmental education project: ☐
   Blue Flag Centre: ☐ other type of activity: ☐ (please describe):
d. Target group: club members: ☒ marina guests: ☒ children: ☒ local public: ☒ marina staff: ☐ other target group: ☐ (please describe): Bayfield Yacht Club

4.3 Where is the information about the environmental education activities displayed? Information board: ☐ other locations: ☒ (please describe): Marina Office, Blue Flag pages of municipal website

4.4 If the marina had the Blue Flag the previous year, please list the activities that were held and a short assessment on the success of these activities (did many people participate, what was the outcome, etc). Try to focus on how these activities could be improved for the future:

ACTIVITY 1:

a. Name of the activity: Plastic Pollution Solutions Brochure
b. Date of the activity: Throughout the season.
c. Assessment of activity: The brochure is an excellent method to raise awareness and is readily visible and available at the Marina Office.

ACTIVITY 2:
a. Name of the activity: Enviro-Friendly Vessel Cleaning Brochure
b. Date of the activity: 2018
d. Assessment of activity: The brochure was distributed to guests and members at the Marina office.

ACTIVITY 3:

a. Name of the activity: Best Boater Practices Brochure
b. Date of the activity: Throughout the season.
c. Assessment of activity: This brochure provides valuable information for boaters and can easily be handed out with dockage agreement.

5. The individual Blue Flag for boat owners is offered through the marina (i).

5.1 Is the Individual Blue Flag for boat owners offered through the marina: Yes: ☒ No: ☐

a. If yes, the national version: ☒ or the international version: ☐
b. If yes, does the marina offer the environmental code of conduct: ☐ or both the environmental code of conduct and the flag: ☒
c. If no, please explain why it is impossible to offer the Individual Blue Flag for boat owners through the marina: __________________________________________________________
__________________________________________________________
__________________________________________________________
d. If no, is it described at the information board about the Individual Blue Flag for boat owners – and how to get the Flag alternatively: Yes: ☐ No: ☒

5.2 Do you display information about the individual Blue Flag for boat owners on the information board? Yes: ☐ No: ☒

ENVIRONMENTAL MANAGEMENT

6. A marina management committee must be established to be in charge of instituting environmental management systems and conducting regular environmental audits of the marina facility (i).

6.1 Please list the marina management committee members and their affiliations (i.e. marina manager, marina expert, education expert, special user group, special interest group): The Marina Management Committee is comprised of the Marina Operator: Ron Reder, Marina Manager: Fred Ramsay and a Municipal Representative: Planning Co-Ordinator, Arlene Parker.

6.2 Please indicate the activities of the marina management committee in the past year:
The Committee met pre-season to discuss goals and criteria, during the season to assess any problems and gauge success and post-season to plan 2018 goals.

7. The marina must have an environmental policy and an environmental plan. The plan should include references to water management, waste and energy consumption, health and safety issues, and the use of environmentally-friendly products wherever possible (i).

7.1 What kind of environmental policy/plan does the marina have: The “environmental logbook” system: ☒ the proper environmental management system: ☐

7.2 If the marina uses the “environmental logbook” system, please complete the following sheet (see marina guidance notes for support):

<table>
<thead>
<tr>
<th>Name of Marina:</th>
<th>Bluewater Marina in Bayfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of responsible person:</td>
<td>Ren Reder</td>
</tr>
<tr>
<td>Year:</td>
<td>2019</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Goal</th>
<th>Description</th>
<th>Persons involved</th>
<th>Documentation</th>
</tr>
</thead>
</table>

Page 4
M:\BLUE FLAG PROGRAM\2019 Blue Flag App\Marina Application 2019\Blue Flag Marina Application 2019.docx
Distribute Pollution Prevention Kits

<table>
<thead>
<tr>
<th>Summer 2019</th>
<th>Pollution Prevention Kits include: Carry bag Oil bilge sock Rags Sorbent pads Fuel nozzle Bib Trash bags BF Individ. Flag info Best Practices brochure</th>
<th>Marina Manager, Blue Flag Co-ordinator</th>
<th>Copy of bills</th>
</tr>
</thead>
</table>

Convert some of the 40 existing globe light fixtures at docks to dark sky friendly fixtures.

<table>
<thead>
<tr>
<th>Summer 2019</th>
<th>Convert light fixtures to dark sky friendly fixtures.</th>
<th>Marina Manager</th>
<th>Invoice re: install cost</th>
</tr>
</thead>
</table>

See APPENDIX “C” for entire Logbook to date with completion details.

7.3 If the marina uses the proper environmental management system:

a. Has the marina followed an official certification system: ☐ or a parallel environmental management system (see marina guidance notes for support): ☐

b. Is the environmental management system enclosed? Yes: ☐ No: ☐

8. Sensitive Area Management

8.1 Is your marina in or near a Marine Protected Area? Yes: ☐ No: ☒

a. If yes, do you consult with the MPA management to ensure suitable ecosystem conservation and biodiversity goals? Yes: ☐ No: ☐

b. If yes, please elaborate

__________________________________________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________

9. Adequate and properly identified, segregated containers must be in place for the storage of hazardous wastes. The wastes have to be handled by a licensed contractor and disposed of at a licensed facility for hazardous wastes (i)

9.1 What kind of hazardous waste can be received at the marina: paints: ☐ solvents: ☐ boat scrapings: ☐ antifouling agents: ☐ batteries: ☐ waste oil: ☒ other types of hazardous waste: ☐ bilge pads, waste antifreeze. The wastes are accepted at Bayfield Marine Services, located immediately across the river about 200 feet away, owned and operated by the Bluewater Marina operator.

9.2 Is your marina a small or remote area (with less than 150 berths) Yes: ☐ No: ☒

9.2.1. a. If yes, do you find it impossible to deal with hazardous waste? Yes: ☐ No: ☒

The volume of waste produced is minimal. The cost to deal with it is excessive.

b. If yes, have you signed an agreement with a neighbouring marina? Yes: ☐ No: ☐

c. If yes, is the information provided to the public on the information board? Yes: ☐ No: ☐

Not a requirement when the information board was installed.

d. If yes, you understand that it is your responsibility to ensure that the waste is correctly managed at the neighbouring marina? Yes: ☐ No: ☐

In your marina (or neighbouring marina for small marinas with an agreement):

9.2 Are the facilities for hazardous waste?

a. Kept clean and environmentally safe? Yes: ☒ No: ☐

b. Separated from other facilities? Yes: ☒ No: ☐
c. Without possible danger for children? Yes: ☒ No: ☐

d. Without possible pollution of the ground under the facility? Yes: ☒ No: ☐

e. Protected from leaking, ignition, explosion, etc. Yes: ☒ No: ☐

9.3 Are the facilities for hazardous waste approved by relevant authorities? Yes: ☒ No: ☐

9.4 Is the transportation of the hazardous waste carried out by licensed carriers? Yes: ☒ No: ☐

8.5 Is the facility receiving the hazardous waste licensed? Yes: ☒ No: ☐

8.6 Does the marina comply with the EU Waste Management Directive? Yes: ☒ No: ☐

a. If no (for non-EU members): please describe which other national/international waste management standard the marina follows: No national/provincial standard.

10. Adequate and well-managed litterbins and/or garbage containers must be place. The wastes are handled by a licensed contractor and disposed of at a licensed facility (i).

10.1 What kind of waste reception facilities does the marina have: litter bins: ☒ waste containers: ☐ other types of facilities: ☐ (please describe): 

10.2 Are there enough waste reception facilities at the marina? Yes: ☒ No: ☐

10.3 Are the waste reception facilities kept clean and regularly emptied? Yes: ☒ No: ☐

10.4 Is the transportation of the waste carried out by licensed carriers? Yes: ☒ No: ☐

10.5 Is the facility receiving the waste licensed? Yes: ☒ No: ☐

11. The marina must have facilities for receiving recyclable waste materials, such as bottles, cans, paper, plastic, organic material, etc. (i)

11.1 What kind of facilities for receiving recyclable waste materials does the marina have? Bottles: ☒ cans: ☒ paper: ☐ plastic: ☒ organic material: ☐ other waste materials: ☐ (please describe): 

11.2 Where is the information about how to separate the different types of recyclable waste posted? At the location of the facility: ☒ at the information board: ☐ at other locations: ☐ (please describe): 

11.3 Is the transportation of the recyclable waste carried out by licensed carriers? Yes: ☒ No: ☐

11.4 Is the facility receiving the recyclable waste licensed? Yes: ☒ No: ☐

12. Bilge water pumping facilities should be available at the marina (g).

12.1 If your marina small or remote area (with less than 150 berths) Yes: ☒ No: ☐

12.2.1. If yes, do you find it impossible to provide bilge water pumping facilities? Yes: ☒ No: ☐

a. There is no room at the marina. There is no way to dispose of the pumped product. A neighbouring marina provides the service.

b. If yes, have you signed an agreement with a neighbouring marina: Yes: ☒ No: ☐

c. If yes, is the information provided to the public on the information board? Yes: ☒ No: ☐

Not a requirement when the information board was installed.

d. If yes, you understand that it is your responsibility to ensure that the bilge water pumping facilities are well managed at the neighbouring marina? Yes: ☒ No: ☐

12.2.2. Is there bilge water pumping facilities at/near the marina (or neighbouring marina for small marinas with an agreement)? Yes: ☒ No: ☐

a. If yes, can the facility separate the oily bilge water from oily residues? Yes: ☒ No: ☐

b. If yes, is the facility easily accessible for all potential users? Yes: ☒ No: ☐

13. Toilet tank waste reception facilities must be present in the marina (l)

13.1 Is your marina a small or remote area (with less than 150 berths) Yes: ☐ No: ☒
13.2.1 If yes, do you find it impossible to provide toilet tank waste reception facilities? Yes: ☐ No: ☒
   a. If yes, for what reasons? Please explain: ____________________________________________

   b. If yes, have you signed an agreement with a neighbouring marina? Yes: ☐ No: ☐
   c. If yes, is the information provided to the public on the information board? Yes: ☐ No: ☐
   d. If yes, you understand that it is your responsibility to ensure that the toilet tank waste reception
      facilities are well managed at the neighbouring marina Yes: ☐ No: ☒

13.2.2 Is there toilet pumping facilities at/near the marina (or neighbouring marina for small marinas with an
agreement)? Yes: ☐ No: ☒
   a. If yes, please indicate the type of facility: Permanent toilet pumping station: ☒, mobile toilet pumping
      facility: ☐, sludge pumping van: ☐, other type of facility: ☐ (please describe: ______________________)
   b. If yes, is the facility easily accessible for all potential users (including the boats requiring more space and
depth)? Yes: ☐ No: ☐
   c. If yes, is the facility in accordance with national legislation? Yes: ☒ No: ☐ n/a: ☐

14. All buildings and equipment must be properly maintained and be in compliance with national
legislation. The marina must be well integrated with the surrounding natural and built environment (I)

14.1 Does the marina have the necessary permissions to act as a marina? Yes: ☒ No: ☐ n/a: ☐

14.2 Is the marina (including all building and equipment) well maintained, well integrated and in general
compliance with legislation? Yes: ☒ No: ☐

14.3 Has an Environmental Impact Assessment been carried out? Yes: ☐ No: ☒
   a. Is the marina with >500 berths and constructed in 2000 or later? Yes: ☐ No: ☒
   b. Is the marina extended with >250 berths? Yes: ☐ No: ☒

14.4 Are the other buildings/facilities at the marina area (including shops, restaurants, cranes, playgrounds, etc)
clean, safe, properly maintained and in compliance with legislation? Yes: ☒ No: ☐
   a. Is any unauthorised pollution from buildings/facilities entering the marina land, water or surroundings?
      Yes: ☐ No: ☒

14.5 Does the marina use environmental friendly equipment/products? Yes: ☑ No: ☐
   a. If yes, please describe which environmental friendly equipment/products: “Biogem Plus” line of cleansers
   b. If no, please describe why not: __________________________________________________________

14.6 Are green areas at the marina properly maintained in an environmental friendly way (without use of
pesticides)? Yes: ☐ No: ☒
   a. If no, please describe why not: __________________________________________________________

14.7 Are any large extensions or rebuilding at the marina planned during the season? Yes: ☐ No: ☒

15. Adequate, clean and well sign-posted sanitary facilities, including washing facilities must be in place
and provide drinking water. Sewage disposal is controlled and directed to a licensed sewage treatment
(I).

15.1 Are there adequate and clean sanitary facilities? Yes: ☒ No: ☐

15.2 Please indicate the number of the following facilities:
   a. Toilets: 7
   b. Washbasins: 6
   c. Showers: 5
15.3 Are drinking water facilities available? Yes: ☑ No: ☐

15.4 Are the sanitary facilities easy accessible and located close to any point of the marina? Yes: ☑ No: ☐

15.5 Are the sanitary facilities linked to a licensed sewage treatment system? Yes: ☑ No: ☐
   a. If no, please describe how the generated wastewater alternatively is removed in a safe way:

16. If the marina has boat repairing and washing areas, no pollution must enter the sewage system, marina land and water or the natural surroundings (i)

16.1 Does the marina have a boat repairing and/or washing area? Yes: ☑ No: ☐
   a. If yes, does the repairing/washing area comply with regulation/standards? Yes: ☑ No: ☐
   b. If yes, is the repairing/washing area clearly designated? Yes: ☑ No: ☐
   c. If yes, are there any functioning collection filters (or equivalent systems) to catch the hazardous substances? Yes: ☑ No: ☐
   d. If yes, are the collected hazardous substances treated as hazardous waste? Yes: ☑ No: ☐
   e. If yes, are larger repairing activities taking place indoor or under cover? Yes: ☑ No: ☐

17. Sustainable transportation should be promoted (g)

17.1 Is the marina located >2 kilometres from the nearest urban settlement? Yes: ☑ No: ☐

17.2 Is there any sustainable transportation to/from the marina? Yes: ☑ No: ☐
   a. If yes, please indicate the type of sustainable transportation: Bus: ☑ bicycles for rent: ☑ pedestrian pathways: ☑ other types of sustainable transportation: ☑ please describe:

18. Parking/driving is not permitted in the marina, unless in specific designated areas (i)

18.1 Is parking/driving allowed in the marina? Yes: ☑ No: ☐
   a. If yes, have specific areas for driving/parking been designated for the purpose? Yes: ☑ No: ☐
   b. If yes, is there free passage for people walking in the marina? Yes: ☑ No: ☐

SAFETY AND SERVICES

19. Adequate and well signposted lifesaving, first-aid equipment and fire-fighting equipment must be present. Equipment must be approved by national authorities (i).

19.1 Is there adequate lifesaving equipment in the marina? Yes: ☑ No: ☐
   a. What type of lifesaving equipment? Lifebuoys: ☑ ladders: ☑ boathooks: ☑ rescue boats: ☑ other types of lifesaving equipment: ☑ (please specify):

   b. Is the lifesaving equipment easy to find (well-signposted)? Yes: ☑ No: ☐
   c. Is the lifesaving equipment located less than 200 meters away from any boat in the marina? Yes: ☑ No: ☐
   d. Is the lifesaving equipment available 24 hours a day during the whole Blue Flag season? Yes: ☑ No: ☐
   e. Has the lifesaving equipment been approved by the national lifesaving authorities? Yes: ☑ No: ☐ (if no, please describe how the equipment alternatively complies with national/international standards:

19.2 Is there adequate fire-fighting equipment at the marina? Yes: ☑ No: ☐
   a. What type of fire-fighting equipment? Fire extinguishers: ☑ water hoses: ☑ fire carpets: ☑ other types of fire-fighting equipment: ☑ (please specify):
b. Is the fire-fighting equipment easy to find (well-signposted)? Yes: ☑ No: ☐

c. Is the fire-fighting equipment located less than 200 meters from any boat or installation in the marina? Yes: ☑ No: ☐

d. Is the fire-fighting equipment available 24 hours a day during the whole Blue Flag season? Yes: ☑ No: ☐

e. Has the fire-fighting equipment been approved by the national fire-fighting brigade? Yes: ☑ No: ☐
   If no, please describe how the equipment alternatively complies with national/international standards:
   The local Fire Chief approved the installation. No requirement for national approval.

19.3 Is there first-aid equipment available at the marina? Yes: ☑ No: ☐
   a. Where can the first-aid equipment be found? Marina office: ☑ Shop/restaurant: ☐ other location at the marina: ☑
      (please specify where): At each lifesaving station and at washroom facility.
   b. Is the first-aid equipment easy to find (well-signposted)? Yes: ☑ No: ☐
   c. At what times is the first-aid equipment available? At all times during the season.
   d. Is the content of the first-aid box intact throughout the Blue Flag season? Yes: ☑ No: ☐
   e. Does the first-aid equipment correspond to the content in Red Cross first-aid boxes? Yes: ☑ No: ☐
      If no, please describe how the equipment alternatively complies with national/international standards:
      Ontario Health & Safety Act.

19.4 Is a public or emergency telephone available at/near the marina? Yes: ☑ No: ☐
   a. Is the telephone available all 24 hours a day? Yes: ☑ No: ☐
   b. Is the location of the telephone easy to find (well signposted)? Yes: ☑ No: ☐

19.5 Is the entrance/exit of the marina marked with extra clear signs for inexperienced sailors? Yes: ☑ No: ☐

19.6 Is the marina lit at night? Yes: ☑ No: ☐

19.7 If there are dry docks, are they fire protected and accessible to emergency vehicles? Yes: ☑ No: ☐ N/A: ☒

20. Emergency plans in case of pollution, fire or other accidents must be produced (i) APPENDIX "B"

20.1 Does the marina have an emergency plan in case of accidents at/near the marina? Yes: ☑ No: ☐

20.2 Does the emergency plan include the following elements?
   a. Information about people to contact in case of an accident: ☑
   b. Involvement of administration services and people necessary to intervene: ☑
   c. Procedures for the protection or evacuation of people at/near the marina: ☑
   d. Procedure of public warning and information: ☑

20.3 What is the extent of the emergency plan: Specific for the marina: ☑ part of a larger harbour emergency plan: ☐
      part of larger municipal emergency plan: ☑ part of larger regional emergency plan: ☐

20.4 Does the staff at the marina have knowledge about the presence and content of the emergency plan? Yes: ☑ No: ☐

21. Safety precautions and information must be posted at the marina (i)

21.1 Does the marina have general information about safety precautions posted? Yes: ☑ No: ☐

21.2 Does the safety precautions include the following information?
   a) Information about the correct storage of hazardous and flammable waste ☐
   b) Directions for filling gasoline/petrol tanks at the fuelling station ☑
   c) Signs for safety hazards (e.g. unprotected piers) ☐
d) Prohibition of open fire or fireworks at the marina (unless there is a designated area or permission from the marina)

e) Directions for the safe use of electrical outlets at the marina

f) No swimming in the marina

g) Information about the location of telephone, lifesaving, fire-fighting and first-aid equipment

h) Information about how to use the above-mentioned equipment

i) Details on how to warn other people about an unsafe situation

j) Information about who to contact for further information about safety at the marina

k) Information about relevant emergency telephone numbers (police, fire department, ambulance, marina manager)

21.3 If some of the information in 21.2 is not included in the safety precautions, please describe why: __
   There are no safety hazards at the marina.

22. Electricity and water is available at the berths, installations must be approved according to national legislation (i)

22.1 Is electricity and water available for the boats (less than 25 meters away from the berths)? Yes: ☒
   No: ☐

22.2 Is there information about the conditions for using the electricity/water? Yes: ☒
   No: ☐

22.3 Is there information about energy/water saving? Yes: ☒
   No: ☐

22.4 Are the installations safe and according to national/international legislation? Yes: ☒
   No: ☐

23. Facilities for disabled people should be in place (g)

23.1 Does the marina have facilities for disabled people? Yes: ☒
   No: ☐

   a. If yes, which of the following disabled facilities are available: Access to/around in the marina: ☒
      car parking facilities: ☒
      sanitary facilities: ☒
      boating facilities: ☒
      other access: ☒ (please describe):

   b. If yes, does the access/facilities comply with national/international regulations and standards? Yes: ☒
      No: ☐
      No national regulations/standards exist.

24. A Map indicating the location of the different facilities must be posted at the marina (i)

24.1 Is a map of the marina posted at the information board? Yes: ☒
   No: ☐

24.2 Does the map include the location of the following facilities?

   Reception facilities for hazardous and oil waste: ☐

   Garbage containers: ☒

   Facilities for recyclable waste: ☒

   Toilet tank/bilge water pumping facilities: ☒ A separate sign/map will be posted indicating the location of these.

   Lifesaving equipment: ☒

   Fire-fighting equipment: ☒

   First-aid equipment: ☒

   Telephone: ☒ (during marina office hours only)

   Sanitary facilities (toilets, showers, etc): ☒

   Fuelling station: ☒

   Boat repairing/washing area: ☐

   Marina office/club house: ☒
Facilities for disabled people: ☒
Designated parking areas: ☒
Boat places reserved for guest boats: ☒
Nearby public transportation: ☒
You are here indicators: ☐
Direction signs, e.g. North: ☒
Other facilities: ☐ Please describe: 

24.3 Are the cartographic co-ordinates of the marina located in a clearly visible place? Yes: ☒ No: ☐

WATER QUALITY

25. Visually clean water and marina (no oil, litter, sewage or other evidence of pollution) (i)

25.1 Is the marina water kept visually clean? Yes: ☒ No: ☐

25.2 Is the marina area (including shops, restaurants, and green areas at the marina) kept visually clean? Yes: ☒ No: ☐
THE BLUE FLAG COMMITMENT

This application is to be considered as a contract between the marina owner and FEE. By signing we confirm that the information given above is correct and that the obligations will be fulfilled.

The responsible marina owner undertakes to remove the Blue Flag if an imperative criterion no longer is fulfilled and to inform the national Blue Flag office immediately.

We are informed that the National Blue Flag Jury and the International Jury reserve the right to refuse or withdraw the Blue Flag where the marina is responsible for current violations of national environmental regulations or otherwise act in discord with the objectives and spirit of the International Blue Flag Program.

Marina owner: The Corporation of the Municipality of Bluewater

Date:

Kyle Pratt
Chief Administrative Officer
ENCLOSURES

☐ Appendix “A” A detailed map of the marina showing the location of the following items:
   a. boundaries of the marina applying for the Blue Flag
   b. location of the marina map and information board
   c. reception facilities for hazardous and oil waste
   d. garbage containers
   e. facilities for recyclable waste
   f. toilet tank/bilge water pumping facilities
   g. lifesaving equipment
   h. fire-fighting equipment
   i. first-aid equipment
   j. telephone
   k. sanitary facilities (toilets, showers, etc)
   l. fuelling station
   m. boat repairing/washing area
   n. marina office/club house
   o. facilities for disabled people
   p. designated parking areas
   q. boat places reserved for guest boats
   r. nearby public transportation

☐ Appendix “A” If there are any natural sensitive areas near the marina, on land or at sea, please enclose a copy of the publicly displayed information about these areas.

☐ If there is a natural sensitive area, (including Marine Protected Area), please enclose information on how this area is monitored and managed as well as by whom.

☐ If there are no natural sensitive areas, please enclose a copy of the environmental information displayed on the information board.

☐ Appendix “B” – Users Manual Please submit a brief description of the emergency plans, including who is responsible for what.

☐ Appendix “B” Please submit a copy of the environmental code of conduct and safety precautions that are posted at the marina.

☐ Appendix “B” Please submit a copy of the Blue Flag program information and the Individual Blue Flag information that is posted at the marina.

☐ Appendix “C” Please submit a copy of the environmental management policy/plan, or the environmental logbook, including the past year’s completed goals and goals for the coming year.

☐ Appendix “D” Please submit a copy of the contract with the licensed contractors handling waste, recyclable waste and hazardous waste.

Appendix “E” By-law No. 34 - 2015 Dog By-law, 89-2008 Beach & Marina Management By-law

☐ Appendix “F” Please submit pictures of the recycling facilities (recyclable waste and hazardous waste), the lifesaving equipment and the fire fighting equipment. These items are in winter storage – will submit photos prior to season start. Control visit indicated equipment was compliant.

☐ Appendix “G” If you are a small or remote marina (less than 150 berths) and are disposing your hazardous waste in a neighbouring marina, please enclose the written agreement between yourself and this marina.

☐ Appendix “G” If you are a small or remote marina (less than 150 berths) and are offering bilge water pumping facilities through a neighbouring marina, please enclose the written agreement between yourself and this marina.
<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Goal</th>
<th>Description</th>
<th>Persons Involved</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal 9.1</td>
<td>Mar 1, 2009</td>
<td>Create a Best Practice sheet on boat fuelling</td>
<td>Topics to cover: proper safety and environmental fuelling procedures</td>
<td>A. Parker</td>
<td>Fact Sheet – provided in 2010 application.</td>
</tr>
<tr>
<td>Goal 9.2</td>
<td>Apr 30, 2009</td>
<td>Change lighting</td>
<td>Switch out light bulbs to energy saving bulbs</td>
<td>D. Lindsay</td>
<td>Invoices – see 2010 application</td>
</tr>
<tr>
<td>Goal 10.1</td>
<td>July 31, 2010</td>
<td>First Aid &amp; CPR training</td>
<td>All marina staff will certify annually.</td>
<td>D. Lindsay</td>
<td>Certificates – see Appendix “E” to 2011 app.</td>
</tr>
<tr>
<td>Goal 10.2</td>
<td>June 1, 2010</td>
<td>Develop inspection checklist</td>
<td>Ensure all equipment and facilities are in good order. Ensure all potential sources of pollution are avoided.</td>
<td>A. Parker</td>
<td>Checklist – see Appendix “E” to 2011 application</td>
</tr>
<tr>
<td>Goal 11.1</td>
<td>May 1, 2011</td>
<td>Hazardous waste plan</td>
<td>Develop a plan to accept, store and dispose of some hazardous wastes.</td>
<td>D. Lindsay</td>
<td>Achieved in 2013</td>
</tr>
<tr>
<td>Goal 11.2</td>
<td>May 15, 2011</td>
<td>Change shower heads</td>
<td>Switch out shower heads to water saving type</td>
<td>L. Wolfe</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 11.3</td>
<td>July 1, 2011</td>
<td>Distribute trash bags</td>
<td>Provide trash bags to Marina day trippers to bring waste generated back to Marina for proper disposal.</td>
<td>L. Wolfe</td>
<td>Incorporated into regular operations and purchasing.</td>
</tr>
<tr>
<td>Goal 12.1</td>
<td>May 15, 2012</td>
<td>Install motion lights</td>
<td>Install motion activated light bulbs in marina guest washrooms to reduce electricity use.</td>
<td>R. Volland</td>
<td>Invoice</td>
</tr>
<tr>
<td>Goal 12.2</td>
<td>May 15, 2012</td>
<td>Change out 2 toilets</td>
<td>Change 2 toilets to water saving type.</td>
<td>R. Volland</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 13.1</td>
<td>Sep 15, 2013</td>
<td>Change out 2 toilets</td>
<td>Change 2 toilets to water saving type.</td>
<td>R. Reder</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 13.2</td>
<td>May 15, 2013</td>
<td>Policy/Procedure</td>
<td>Commitment to sell only 4 cycle and approved 2 cycle boat motors.</td>
<td>R. Reder</td>
<td>Written commitment</td>
</tr>
<tr>
<td>Goal 14.1</td>
<td>Sep 15, 2014</td>
<td>Change out 2 toilets</td>
<td>Change 2 toilets to water saving type.</td>
<td>R. Reder</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 14.2</td>
<td>May 15, 2014</td>
<td>Fuel/Air Separator Subsidy</td>
<td>Pay 50% of cost for boaters to purchase/install a fuel/air separator to eliminate fuel spills.</td>
<td>R. Reder</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 15.1</td>
<td>Summer 2015</td>
<td>Distribute Pollution Prevention Kits</td>
<td>Kits include: bag, oil bilge sock, rags, sorbent pads, trash bags, Individual Blue Flag Information, Blue Flag Info, Best Practices Brochure</td>
<td>A. Parker</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 15.2</td>
<td>Summer 2015</td>
<td>Fuel/Air Separator Subsidy</td>
<td>Pay 50% of cost for boaters to purchase/install a fuel/air separator to eliminate fuel spills.</td>
<td>A. Parker</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal 16.1</td>
<td>Summer 2016</td>
<td>Distribute Pollution Prevention Kits</td>
<td>Kits include: bag, oil bilge sock, rags, sorbent pads, trash bags, Individual Blue Flag Information, Blue</td>
<td>A. Parker</td>
<td>Invoices</td>
</tr>
<tr>
<td>Goal</td>
<td>Summer</td>
<td>Task Details</td>
<td>Responsible Party</td>
<td>Category</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>16.2</td>
<td>2016</td>
<td>Install water bottle filling station. Pay for the installation of water bottle filling station purchased by Blue Community group.</td>
<td>A. Parker</td>
<td>Invoices</td>
<td></td>
</tr>
<tr>
<td>17.1</td>
<td>2017</td>
<td>Distribute Pollution Prevention Kits. Kits include: bag, oil bilge sock, rags, sorbent pads, trash bags, Individual Blue Flag Information, Blue Flag Info, Best Practices Brochure</td>
<td>A. Parker</td>
<td>Invoices</td>
<td></td>
</tr>
<tr>
<td>17.2</td>
<td>2017</td>
<td>Refurbish some of 40 light fixtures: dawn to dusk function. Contribute to the cost of replacement of parts to add dawn to dusk functionality to reduce energy use.</td>
<td>Marina Manager</td>
<td>Invoice</td>
<td></td>
</tr>
<tr>
<td>18.1</td>
<td>2018</td>
<td>Distribute Pollution Prevention Kits. Kits include: bag, oil bilge sock, rags, sorbent pads, trash bags, Individual Blue Flag Information, Blue Flag Info, Best Practices Brochure</td>
<td>Marina Manager</td>
<td>Invoice</td>
<td></td>
</tr>
<tr>
<td>18.2</td>
<td>2018</td>
<td>Convert fluorescent lighting to LED lighting in one bathroom. Contribute to the cost of light conversion to reduce energy use.</td>
<td>Marina Manager</td>
<td>Invoice</td>
<td></td>
</tr>
</tbody>
</table>
Soakaways

A soakaway is a small underground reservoir that collects rainwater runoff from your downspout and allows it to slowly soak into the surrounding soil. Soakaways can be rectangular or circular. They are usually lined with landscape fabric, filled with clean gravel, and camouflaged with plants or decorative rocks. Often, soakaways are designed to be installed along with a rain barrel or rain garden. (See "Connecting the Drops" for examples on how this is done).

Advantages and Disadvantages of Soakaways

Advantages:
• Good alternative solution to a rain garden, when limited by space on your property.
• Used for carrying water from one location to another and allowing water to soak back into the ground.
• Require very little maintenance over the years.
• Inexpensive.

Disadvantages:
• Will not function properly if clogged by leaf litter and soil.
• Require a fair amount of digging to reach appropriate depth.

RAINGARDENS AND SOAKAWAYS....WHAT’S THE DIFFERENCE?

Rain gardens and soakaways are actually quite similar. They both accept water from your downspout and allow it to soak into the ground. The main difference is that rain gardens are filled with a sand/compost mix and soakaways are filled with stone. Like a rain garden, soakaways have the option of a top layer of soil for plants, or you can turn them into a rock garden feature. Soakaways can fit in small and narrow spaces, where as rain gardens usually need larger areas.

ARE SOAKAWAYS RIGHT FOR ME?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you have a water source to feed your soakaway, such as a disconnected downspout, or rain barrel?</td>
<td></td>
</tr>
<tr>
<td>Do you have limited space for a rain garden?</td>
<td></td>
</tr>
<tr>
<td>Do you like low maintenance landscaping?</td>
<td></td>
</tr>
<tr>
<td>Are you willing to dig down into your property?</td>
<td></td>
</tr>
</tbody>
</table>

If you answered ‘YES’ to all of the above, you are ready to install your soakaway! Read on to learn how.
Which Soakaway is Best Suited for Your Property?

Infiltration Trench

There are a variety of soakaway options to consider. In general they can be divided into two categories;

1. Infiltration Trenches
   An infiltration trench is a linear soakaway – basically a long narrow underground reservoir filled with stones. It is designed to carry water from one area to another while allowing it to soak into the ground. It is perfect for narrow strips of land between suburban driveways.

   Infiltration trenches can range in size from 30 centimetres to 2 metres deep, up to 1 metre wide, and can be any length depending on the amount of area you have available. They must be slightly sloped in order to allow water to flow from one end to the other. They are used to direct water towards permeable surfaces or other collection systems such as soakaway pits or rain gardens (page 24).

2. Soakaway Pits
   Soakaway pits are underground pits. They are filled with stones and collect water, allowing it to slowly soak into the surrounding soil. A disconnected downspout or infiltration trench can feed into the pit. You can cover your soakaway pit with grass to make it appear “invisible”, or create a landscaped rock garden.
Getting Started

A soakaway must be carefully designed and maintained to work properly. Poorly installed or improperly located soakaways can fail, and will not achieve the desired results. Before starting any soakaway project, it is important to perform the following steps as part of your site assessment.

Soils

Porous soil with lots of sand is best suited for soakaways. It allows the water to soak into the ground quite quickly. Clay soil allows water to soak into the ground at a much slower rate. If you are dealing with heavy clay soils you may need to dig further down and replace the soil with a sand-compost mixture. Refer to page 8 for instructions on determining your soil type, and calculating your infiltration rate.

Location

Finding the correct location for your soakaway is extremely important. You can be restricted by a number of factors such as soil type, slope of land, distance to the foundation of your home and obstructions like large tree roots and underground utilities. Before digging, we advise you obtain the proper dig permits.

Soakaway pits and infiltration trenches work best as collection areas for stormwater that runs out of your roof’s downspouts. When you are considering where a soakaway could be installed on your property, keep in mind the following:

Space requirements

Infiltration trenches are usually between 30 centimetres and 1 metre deep, can be as wide as 1 metre and as long as your property allows. Soakaway pits can be designed to fit in small spaces, approximately 1 metre squared by 1 metre deep.

Proximity to Other Buildings

To prevent water from coming into contact with your foundation and possibly causing basement flooding, soakaways should be at least 3 metres away from yours or any neighbouring foundations.

Slope of Your Property

Properties with more than a 5% grade do not usually allow water to infiltrate into the ground and therefore are not recommended for soakaway projects. Refer to page 6 to calculate the slope of your property.

Drainage Problems

If you know of areas on your property that are prone to water pooling, a soakaway is not a good option. Water may be pooling because of a high water table, or because of compacted or heavy clay soil. However, if it is due to compacted or clay soil, you can potentially amend the soil to make it suitable for a soakaway. Refer to page 8 for calculating your soil infiltration rate.

Overflow

Like any structure accepting water, you should always install a drain or overflow in case of very large storm events. If the site permits, direct the overflow towards another stormwater management project such as a second soakaway or a rain garden. If this is not possible, have the overflow directed to a landscaped or grassy area downhill from the foundation of the home.
WORKSHEET - Sizing Your Soakaway

As with all of the projects presented in this guide, a small soakaway is better than nothing at all. But to get the most out of your soakaway, try to size it according to what your property can accommodate.

In order to determine the best size for your soakaway, you need to know how much water will be draining to it. The first step is to calculate the total drainage area (your roof area). To do this, you will have to measure the total width and length of your house, and then do the same for the garage (if applicable).

Example:

House: 8 metres x 17 metres = 136 m²
Garage: 4 metres x 6 metres = 24 m²
Total roof area of house and garage: = 160 m²

| Length of House: (A) __________ m |
| Width of House: (B) __________ m |
| Total Area of House (multiple A x B): (C) __________ m² |
| Length of Garage: (D) __________ m |
| Width of Garage: (E) __________ m |
| Total Area of Garage (multiply D x E): (F) __________ m² |
| Total Roof Area (add together C and F): (G) __________ m² |

Next, to determine how much water, on average, drains to each downspout, divide the total roof area (G) by the number of downspouts on your house and garage.

\[ G \div H = J \]

Total number of downspouts: (H) __________

\[ G \div H = J \]

Total area draining to each downspout: (J) __________ m²

Finally, to determine the best size for your soakaway, divide this number by 10.

\[ J \div 10 = K \]

Your ideal soakaway size: (K) __________ m²

This is the recommended size for your soakaway. If you plan to make a larger soakaway, that’s fine, but if you plan to make a smaller soakaway, you should dig down 10 – 20 centimetres deeper.

How Deep Do I Need to Go?
Referring back to page 8, you should already know what type of soil you have on your property.

Below we have provided dig depths for each soil type.

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Recommended Depth of Soakaway (metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>0.3</td>
</tr>
<tr>
<td>Sandy loam</td>
<td>0.5</td>
</tr>
<tr>
<td>Loam</td>
<td>0.75</td>
</tr>
<tr>
<td>Clay loam</td>
<td>1.0</td>
</tr>
<tr>
<td>Clay</td>
<td>1.25</td>
</tr>
</tbody>
</table>

IMPORTANT
Remember, all soakaways must be located at least 3 metres away from any building foundation.
**WORKSHEET - Designing Your Soakaway**

There are a couple things to consider when designing the overall look of your soakaway. If you wanted a rain garden but did not have the space, here is your chance to make your soakaway look like one.

- If you decide to plant your soakaway, choose a variety of water loving flowers and grasses that vary in height, colour and texture (refer to page 27 for a list of appropriate plants).
- Like a rain garden, we ask you to consider the year round look of your soakaway. Grasses will hold their shape throughout the winter, but flowers will disappear causing bare spots in the colder months.
- Consider your home’s existing landscape and how it will look against your current gardens, driveway, walkway and house.
- If the soakaway ends near the road, consider site lines and setbacks from the edge of your property.

Take a minute and draw a rough sketch of what your ideal soakaway might look like:
Building Your Soakaway

There Are Five Main Steps to Build a Soakaway:
1. Digging your soakaway.

2. Lining your soakaway with landscape fabric.
3. Filling your soakaway with stone.
4. Creating an inlet and overflow area.
5. Finishing touches with plants and/or rocks.

WHEN TO SEEK PROFESSIONAL ADVICE
If your soil is high in clay (refer to page 8 for your soil analysis results), it can be more challenging to create a highly functioning soakaway. You may want to consult with a landscape professional before proceeding for advice on dealing with your specific soil conditions. Refer to Resources and look under “Soakaways” for more information.

Installing Your Soakaway

All types of soakaways are similar in design. The following describes the general installation instructions, with differences between infiltration trenches and soakaway pits noted.

Tools Required:
- Measuring tape
- Shovel
- Hammer
- Ground paint or string

Materials Required:
(Refer to page 40 for quantity calculation)
- 3/4" clear gravel
- Non-woven filter cloth or landscape fabric (enough to line the base and sides of the excavated area).
- Garden staples
- Perforated rigid plastic pipe, 10 centimetre diameter, with perforated pipe connectors (required for infiltration trenches).
- Sand-compost mix (if you have clay-heavy soil and are amending your soil).
- Decorative river rocks and/or pea gravel, sod, grasses, sedges or seedlings (your choice).

Steps:

1. Digging your soakaway
a) Once you have decided the location of your soakway project, mark the area with ground paint or string. Make sure that you are satisfied with the size and layout.

b) Dig to the appropriate depth (refer to page 36). Try to stand outside of the excavated area as much as possible when digging, and do not place any heavy machinery on the area to avoid compacting the soil.

c) If you are digging an infiltration trench, excavate the entire length of the trench at a downward slope of 3 centimetres for every 1 metre in length to help with the movement of water. To help you with this step, you may want to refer back to page 6 for instructions on calculating slope.

2. Install non-woven filter cloth or landscape fabric
Once the entire area has been dug, lay down and secure non-woven filter cloth or landscape fabric along the bottom and sides with garden staples. This prevents any soil or vegetation from entering the soakaway, while still allowing water to soak through. Be sure to leave an overhang of 30 centimetres on either side. You will use this later when completing the installation of your soakaway.
Are You Installing an **Infiltration Trench** or a **Soakaway Pit**?

### Infiltration trench

**A)** Fill the bottom of the trench with 5 – 10 centimetres of 3/4" clear stone as a base, and lay the perforated pipe on top.

There are two options in this step.

**B1)** If you are connecting your downspouts directly to the perforated pipe you can lay the pipe on top of the stone and connect the higher end of the pipe to your roof downspout. This step may require you to attach an elbow to the base of your downspout, which you then connect to your perforated pipe (refer to downspout disconnection page 13).

**B2)** If you are not connecting your downspout to a perforated pipe, you can direct your downspout to the infiltration trench at ground level.

### Soakaway pit

**A)** Fill 2/3 of your soakaway with 3/4" clear stone.

**B1)** If you are connecting your downspout(s) to your soakaway pit underground, you will have to dig a trench and connect your downspout to a solid plastic pipe that is inserted directly into the 3/4" clear stone.

**B2)** If you are not connecting your downspout(s) to your soakaway underground, you can direct your downspout above ground onto the soakaway.

*continued on next page*
4 Finishing your soakaway

a) Fill the remainder of the trench with 3/4" clear stone until you are 5 – 10 centimetres from the top.

b) Lay down and secure non-woven filter cloth or landscape fabric on top of the stone.

c) Either backfill with the original soil you removed in order to plant the area, or if you prefer, you can create a nice rock garden trench as shown in the picture to the right (refer to page 27 for a list of appropriate plants).

d) Install a screen on your eavestrough or a removable filter screen into your downspout in order to prevent leaf litter and twigs from entering and clogging your soakaway (refer to page 43).

How Much Stone Should I Order?

To calculate how much stone you will need to fill your soakaway, complete the calculation below.

____ metres (soakaway length) x ____ metres (soakaway width) x ____ metres (soakaway depth – should be around 1.0 metre) =

_______ * cubic metres of stone

CONVERSION OF CUBIC METRES TO CUBIC YARDS

Many garden centres still price their bulk aggregate (soil, sand, compost, mulch) in cubic yards. It is easy to convert your measurements:

1 cubic metre = 1.3 cubic yards

So to covert any measurements in cubic metres to cubic yards, simply multiply by 1.3.
Cost

The cost of installing a soakaway will vary depending on the size and type of soakaway.

Example: the cost of installing an infiltration trench 0.5 metres wide, 12 metres long and 1 metre deep would be:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
<th>COST PER UNIT</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; clear stone</td>
<td>2.0 yards</td>
<td>$50 / yard</td>
<td>$100</td>
</tr>
<tr>
<td>Non-woven filtercloth / landscape fabric</td>
<td>1 (4ft x 100ft)</td>
<td>$100</td>
<td>$100</td>
</tr>
<tr>
<td>Landscape/Garden staples</td>
<td>1 (40 pack box)</td>
<td>$7</td>
<td>$7</td>
</tr>
<tr>
<td>Perforated pipe (optional)</td>
<td>4 (3m length)</td>
<td>$10</td>
<td>$40</td>
</tr>
<tr>
<td>Perforated pipe connectors (optional)</td>
<td>3</td>
<td>$4</td>
<td>$12</td>
</tr>
<tr>
<td>Downspout elbow (optional)</td>
<td>1</td>
<td>$4</td>
<td>$4</td>
</tr>
<tr>
<td>Flexible downspout diverters (optional)</td>
<td>1</td>
<td>$15</td>
<td>$15</td>
</tr>
<tr>
<td>Eavestrough filter/Screen</td>
<td>1</td>
<td>$4</td>
<td>$4</td>
</tr>
<tr>
<td>Monitoring/Observation well (optional)</td>
<td>1</td>
<td>$15</td>
<td>$15</td>
</tr>
<tr>
<td>Pea gravel or River stone (optional)</td>
<td>1 yard</td>
<td>$85</td>
<td>$85</td>
</tr>
<tr>
<td><strong>TOTAL (including optional items)</strong></td>
<td></td>
<td><strong>$382</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL (not including optional items)</strong></td>
<td></td>
<td><strong>$211</strong></td>
<td></td>
</tr>
</tbody>
</table>

Example: the cost of installing a soakaway pit 1.0 metre cubed (1.0m x 1.0m x 1.0m) would be:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
<th>COST PER UNIT</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; clear gravel (limestone)</td>
<td>1.0 yard</td>
<td>$50 / yard</td>
<td>$50</td>
</tr>
<tr>
<td>Non-woven filtercloth / landscape fabric</td>
<td>1 (4ft x 50ft)</td>
<td>$45</td>
<td>$45</td>
</tr>
<tr>
<td>Landscape/Garden staples</td>
<td>1 (40 pack box)</td>
<td>$7</td>
<td>$7</td>
</tr>
<tr>
<td>Perforated pipe</td>
<td>1 (3m length)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>Observation well cap on top of perforated pipe</td>
<td>1</td>
<td>$8</td>
<td>$8</td>
</tr>
<tr>
<td>Downspout elbow (optional)</td>
<td>1</td>
<td>$4</td>
<td>$4</td>
</tr>
<tr>
<td>Flexible downspout diverter (optional)</td>
<td>1</td>
<td>$15</td>
<td>$15</td>
</tr>
<tr>
<td>Pea gravel or River stone (optional)</td>
<td>¼ yard</td>
<td>$85</td>
<td>$21.25</td>
</tr>
<tr>
<td><strong>TOTAL (including optional items)</strong></td>
<td></td>
<td><strong>$160.25</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL (not including optional items)</strong></td>
<td></td>
<td><strong>$120</strong></td>
<td></td>
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</tbody>
</table>

***NOTE: These cost tables do not include the cost of plants. If you plan on including plants into your soakaway please refer to page 27 for a list of appropriate plants. Price of plants will vary depending on what nursery or landscape center you purchase them from. As a rule of thumb, the cost of individual plants are around $5.***
## Your Soakaway Pit Cost Table:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
<th>COST PER UNIT</th>
<th>COST</th>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Maintenance

Soakaways require very little maintenance to ensure proper operation. The only maintenance requirements include regular inspections and cleaning of inlets to prevent clogging, and inspection of monitoring wells (if installed). Sediment and leaf buildup will reduce the infiltration rate, so should be cleaned at least twice a year. Soggy ground or water pooling may be indicators that there is a clog. Filters on the eavestroughs or at the inlet of the trench are great in preventing leaf litter from entering (refer to the pictures to the right). These can be purchased at your local hardware or landscaping supply store.

If you have planted your soakaway to look like a garden, refer to page 31 for tips on garden maintenance.