



SSIWPA

Annual Report 2016

Purpose of report

The purpose of this report is to:

1. communicate an overview of the SSIWPA goals for year 2016;
2. report progress made towards their achievement;
3. provide a financial summary for 2016;
4. outline SSIWPA's major initiatives for 2017.

Goals and accomplishments

	Goal	Progress	Notes
1	Secure funding for year 2015-16	100%	
2	Progress the SSI LTC/ SSIWPA project to supply limits and demand criteria within NSSWD area of service	50%	Dialogue with SSI LTC ongoing
3	To continue to participate and initiate outreach education programs	100%	Shoreline Project year 2
4	To complete the outstanding actions related to St Mary Lake management program	95%	Ongoing are: HCTF (grant writing support for CLSC and ISSES) EcoAction Grant application (implement 2017) (Sedimentary study)
5	To undertake a peer review of the Cusheon Lake watershed management plan	100%	Cusheon Lake Management Plan review completed. Action to develop coordinated Cusheon Lake Monitoring ensues as part of Integrated Water Management Program for SSI
6	Establishment of a conservation and efficiency working group	100%	First meeting convened Oct 2016



2016 Workplan

SSIWPA prepared a detailed workplan for 2016, shown on page 6. For the most part the targets set in that workplan have been accomplished, with the exception of the Cusheon Lake management plan which has been put on hold to allow prioritization of the Integrated Water Management Program SSIWPA introduced in May 2016.

The Integrated Water Management Program was introduced by SSIWPA in May 2016. In the intervening months, SSIWPA has been working internally and with other agencies to develop the program.

Further information the program is provided on page 7 and on [SSIWPA's website](#).

Links to some of the reports prepared by SSIWPA's technical working group during 2016 are provided below:

[Trophic Interactions and Algae in St Mary Lake](#)

[Septic Load to St Mary Lake](#)

[Drought Analysis for Salt Spring Island - Nov 2015](#)

[Algal Abundance and Phosphorus Analysis St Mary Lake](#)

[External Phosphorus Load to St Mary Lake](#)

A full list of SSIWPA and third party publications can be found on the [SSIWPA library website](#).

2016 Workplan



Activity	Management Action	Start Date	Finish Date	% Complete	Report link	2016												2017																																			
						Aug 14	Sept 14	Oct 14	Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sept 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17							
Coordination, Funding, Admin																																																					
LTC-SSIWPA project: Conservation and Supply Consulting NSSWD area		12/1/15	3/31/16	100%		Report pending.																																															
Grant proposal: HCTF for SML IWMP actions, Cusheon survey and stewardship actions		2/1/16	5/31/16	100%		approved																																															
Budget CRD for 2016		11/16/15	3/14/16	100%		approved																																															
Tax Requisition funding request for SSIWPA		1/1/16	3/31/16	100%																																																	
Outreach and Watershed Stewardship Education																																																					
Fall Fair 2015		9/21/15	1/20/17	76%		THIS WORKPLAN IS DRAFT FOR DISCUSSION PURPOSES																																															
Water Fair 2016 (incl. IWMP workshop action)		1/1/16	5/13/16	100%		completed																																															
MONAD - SSIWPA booth at community event		2/1/16	2/29/16	100%		completed																																															
SML : Three common perceptions challenged by the SSIWPA 2014-15 monitoring program_M Squires		2/1/16	2/29/16	100%	Three Perceptions SML Monitoring	completed																																															
SML: Septic Final Paper 2014-15_D Hodgins		2/1/16	2/26/16	100%	Phosphorus loading to SML from septic	completed																																															
SML Celebration at the lake - cancelled		5/3/16	6/7/16	0%																																																	
Open house 2015		11/27/15	11/27/15	100%		completed																																															
Annual report 2015		1/20/16	1/20/16	100%		completed																																															
Fall Fair 2016		9/16/16	9/16/16	100%																																																	
Annual Report 2016		12/1/16	1/20/17	25%																																																	
Water Fair 2017		3/31/17	3/31/17	25%	Workshops and Rainwater Harvest Home Tour																																																
St Mary Lake																																																					
SSIWPA IWMP Final and Printing		12/1/15	12/1/15	100%		completed																																															
Reporting: REFBC, Berman Fdn, Prov. Ministries		10/5/15	10/16/15	100%		completed																																															
Press Releases: DW, Van Island		9/28/15	10/16/15	100%		completed																																															
Public WQ sampling program presentation by Dr. Squires		10/5/15	10/9/15	100%		completed																																															
Stormwater monitoring: TWG	MA1	10/28/15	4/29/16	100%	External Phosphorus Loads to St. Mary Lake	Report pending.																																															
Septic : TWG	MA2	10/12/15	10/16/15	100%		completed online April 14, 2016																																															
Quality P turnover monitoring:(After TWG reports to steering, may revise to delete this action)	MA3	10/24/16	12/30/16	0%																																																	
BMP document	MA4	5/23/16	8/19/16	25%																																																	
Survey - Cusheon initially, Island wide second edition,	MA5, 11	2/1/16	5/31/16	100%																																																	
HCTF PCAF funding application writing/support for Stewardship Groups: for shoreline riparian restoration project SML site, together with Cusheon site.	MA5, 6, 9, 12, 13, 16	3/1/16	5/16/16	100%																																																	
Workshops: March 13/16; potential Jun 19/16 at SML celebration event, Aug 19/Diana Allen; Water Fair 2017	MA6	3/1/16	3/31/16	100%																																																	
Cowichan Trip Report (Sept 18)		9/28/15	10/9/15	100%																																																	
EFP Group workshop - cancelled until justification for need (after conversation with D. Tattam) (SSIAA collaborators)	MA7																																																				
Signage - CRD	MA8	3/1/16	6/30/16	100%																																																	
Committee meetings and coordination, event production	MA9																																																				
Kids for Creeks - liaison, participate in Water Fair	MA10	9/28/15	10/9/15	100%		completed																																															
Septic: existing septic brochure education (mail outs, events)	MA11	9/21/15	9/25/15	100%																																																	
Assist HCTF Grant Project Shoreline Restoration Cusheon and St Mary (grant writing support for yr 2, CLSC and ISSES)	MA5, 6, 9, 12, 13, 16	9/1/16	9/1/17	0%																																																	
EcoAction Grant application (implement 2017) (Sediment study)	MA14, 15	6/1/16	10/31/16	0%																																																	
keyline workshop: Hatchet n'Seed	MA16	3/1/16	3/31/16	100%		completed																																															
POLIS Capacity Building Workshop, (minutes posted to steering and webinar follow up)	MA6	3/1/16	3/31/16	100%		completed																																															
TWG Reports																																																					
Algae and phosphorus - D Hodgins		8/1/14	4/29/16	100%	Algal Abundance and Phosphorus Analysis SL M	Final report pending																																															
Can biomanipulation alter algal biomass in SML - M Squires		1/1/16	1/29/16	100%	Trochic Interactions and Algae in SML	completed																																															
Phosphorus Loading Estimates to SML from Septic Sources - D Hodgins		8/1/14	4/29/16	100%	Septic P Load to SML	completed																																															
Preliminary estimates of P loads to SML from Stormwater - D Hodgins		11/20/15	11/20/15	100%	Preliminary Stormwater P Load to SML																																																
Drought Analysis Report 2015 - D Hodgins		11/30/15	11/30/15	100%	Drought Analysis for Salt Spring - Nov 2015	completed																																															
Cusheon Lake																																																					
Review Cusheon Management Plan 2007		11/2/15	4/22/16	100%		completed																																															
Identify Data Gaps in 2007 plan		1/1/16	5/31/16	100%		on hold for new program																																															
Survey pilot for BMPs and education info		11/23/15	7/15/16	100%																																																	
Creek and lake quality and nutrient monitoring liaison with independent scientists - on hold		9/21/15	1/31/17	0%																																																	
Cusheon public meeting, presentations to SSIWPA		9/18/15	10/23/15	100%		completed																																															
Establish Watershed DPA and Building BMP package for realtors - with Trust Planner																																																					
Establish Cusheon Public Advisory Committee - cancelled		12/5/14	4/20/16	0%																																																	
Assist grant writing for year two Cusheon dock project (assist CLSC and ISSES)		8/1/16	11/30/16	0%																																																	
Supply/Conservation																																																					
TWG Groundwater Study Proposal development		10/26/15	10/21/16	75%																																																	
Steering committee expansion for groundwater expertise		11/9/15	5/20/16	100%																																																	
Integrated Water Management Program objectives charter		5/20/16	8/19/16	100%																																																	
Conservation and Efficiency Working Group established		5/20/16	10/21/16	100%																																																	

LEGEND

- CLSC Cusheon Lake Stewardship Committee
- CRD Capital Regional District
- DW Driftwood
- EFP Environmental Farm Plan
- HCTF Habitat Conservation Trust Foundation
- ISSES International Student Support and Educational Services
- IWMP Integrated Watershed Management Plan
- LTC Local Trust Committee
- MONAD North Salt Spring Waterworks District
- NSSWD Public Conservation Assistance Fund
- PCAF Project on Ecological Governance
- POLIS Real Estate Foundation of BC
- REFBC St Mary Lake
- SML Salt Spring Island Watershed Protection Authority
- SSIWPA Technical Working Group
- TWG Water quality
- WQ

2017 Workplan

“To Focus on the Integrated Water Management Program”

The principal focus up to and through 2017 for all three of SSIWPA’s committees will be to advance the integrated water management plan.

The Integrated Watershed Management Program was initiated by SSIWPA in recognition of a concern that freshwater sources on Salt Spring Island are stressed and at or near the sustainable limits of their capacity.

Those concerns are mainly focused on the north end of the island where, for example, North Salt Spring Waterworks District (NSSWD), which supplies one of the most densely populated parts of the island including all of Ganges village, has introduced a moratorium on new water connections due to source capacity issues.

The IWM program addresses the need to:

- quantify the volume of freshwater available (in a renewable manner) for human use;
- measure and optimize the efficiency of potable water resource uses/demand;
- if necessary, adjust bylaws and regulations to limit further densification in areas where water quantity sensitivities exist to sustainable levels.



The following progress has been made with regards to the IWMP:

- Goals and objectives of the program have been defined;
- Major actions that are necessary to support the program have been identified;
- A conservation and efficiency working group has been assembled whose purpose and main objectives is to investigate and assess technologies, methods, best practices and/or policies to achieve the following:
 1. Reduction in potable water use in all economic/residential sectors of the SSI economy;
 2. Feasible uses of alternative water sources, which may include rainwater catchment, grey water recycling, wastewater re-use, desalination, other;
 3. Increased efficiency of water use in areas such as agriculture, gardening, markets, food service, other;
 4. Feasible incentives for water use efficiency;
 5. Identify barriers and challenges to implementation related to the regulatory environment (i.e. building code, health authority approvals, etc.); suggest possible solutions.

SSIWPA’s three committees are currently preparing detailed action plans which will be published in the form of an integrated project schedule that will record the collective targets for 2017, and the targets established for each committee.

Financial Summary



SSIWPA's core funding of \$110,500 was provided by Salt Spring Island taxpayers in the form of a special property tax requisition raised through the Islands Trust. In addition, there were nearly \$43,000 in unspent funds from the 2014-15 SSIWPA special tax requisition that were re-allocated through the Local Trust Committee to a project titled "Water Conservation and Demand Management Plan for Salt Spring Island", which took a focus on the North Salt Spring Water District. Capital Regional District contributed \$21,400, some of which will be carried over unspent to the 2017 fiscal year. Finally, \$2500 of unspent funds from the Philip and Muriel Berman Foundation grant made through Vancouver Foundation to Islands Trust for SSIWPA project work in 2014 also remain as SSIWPA revenue in the 2016 financial statement. These funds have now been allocated by SSIWPA Steering Committee to be spent in early 2017 on an innovative pilot project to test the capacity to measure phosphorus in soil water from soil sampling rather than groundwater sampling from drilled wells.

SSIWPA would like to acknowledge the Islands Trust Council for approving the special tax requisition for 2016. It is grateful to Capital Regional District for the contributions to SSIWPA projects and programs: an annual portion of gas tax revenues and stormwater program revenues are allocated to SSIWPA for projects and for staff costs allowing for CRD representation in SSIWPA committees.

The invaluable contributions by volunteer members of the technical working group, the conservation and efficiency working group and also to some extent, the Steering Committee. These contributions go largely unreported, as they do not appear in financial statements. The SSIWPA and the Salt Spring public is indebted to these individuals for providing local knowledge and technical guidance towards the achievement of SSIWPA's many goals.

Revenue	YTD Actuals	Budget	Balance Remaining	% of Budget Spent YTD
SSI LTA Special Property Tax Requisition	\$110,500.00	110,500.00	0.00	100%
Unspent Funds from 2014-15 Special Property Tax Requisition	42980.93	42980.93		100%
Philip and Muriel Berman Foundation - (\$2500 allocated Soil P analysis by TWG) - unspent as of Nov. 18 2016	2,500.00	2,500.00	0.00	100%
Capital Regional District (Stormwater operating budget and Gas Tax funds)	21,400.00	21,400.00	0.00	100%
Total Revenue	\$177,380.93	\$177,380.93	\$ -	100%
Expenses				
SSIWPA Coordination	85,051.16	85,000.00	(51.16)	100%
Meeting cost (3 committees, minute taking, room rental)	3,292.10	5,500.00	2,207.90	60%
Community Events and Communications*	8,949.04	13,000.00	4,050.96	69%
Administration Levy	7,760.00	12,000.00	4,240.00	65%
Administration and SSIWPA rep time - CRD	9,040.40	10,000.00	959.60	90%
LTC Conservation and Demand Management Study	40,820.80	42,980.93	2,160.13	95%
Soil phosphorus pilot (TWG)	0.00	2,500.00	2,500.00	0%
Sample analysis and shipping	1,464.14	3,000.00	1,535.86	49%
Other SML actions budgeted by CRD	0.00	3,400.00	3,400.00	0%
Total Expenses	\$156,377.64	\$177,380.93	\$21,003.29	88%
Total Surplus (Deficit) to date	\$21,003.29			

* includes subcontract for Water Fair co-coordination