

CVRD Solid Waste Management Plan Update – Meeting 5



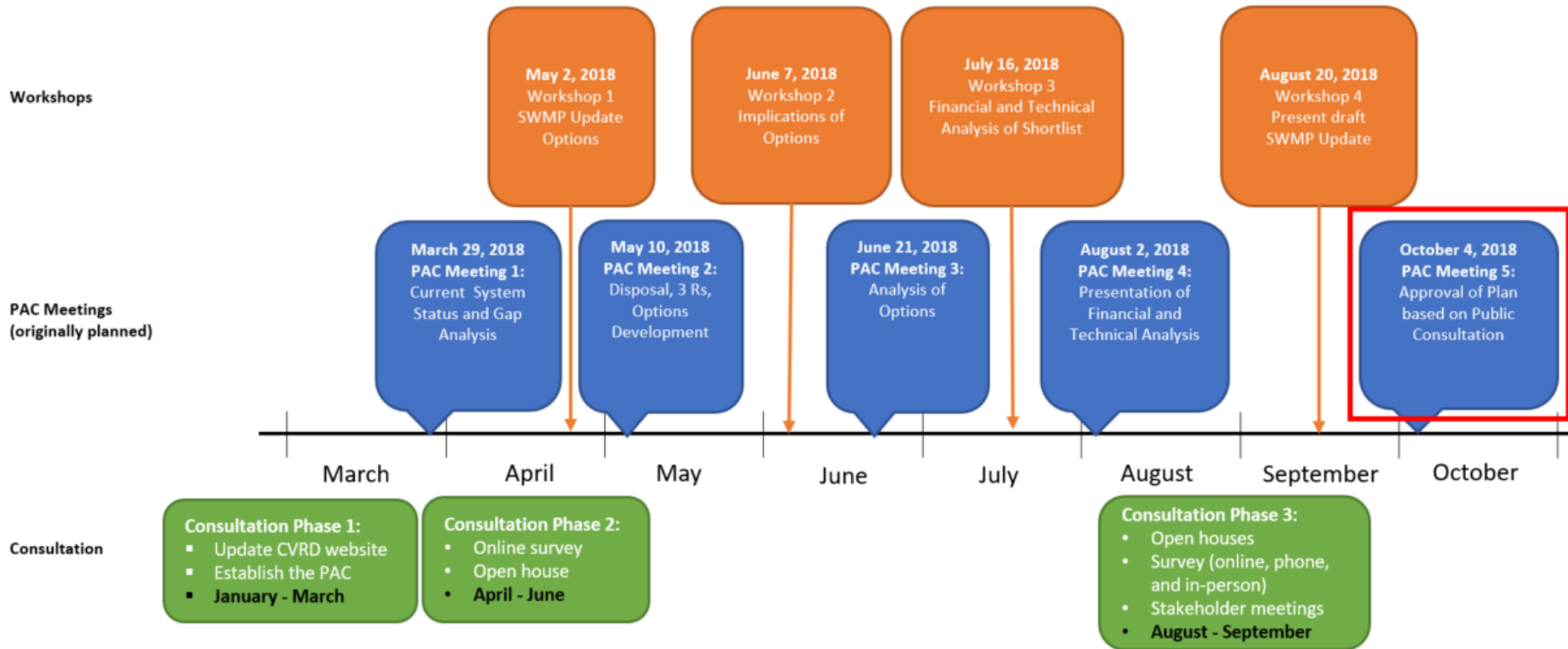
October 4, 2018

Agenda

- Plan and Consultation Context
- Consultation Summary
 - Process Structure Consultation Objectives
 - Plan Initiation
 - Plan Advisory and Oversight Committee
 - Participation
 - Promotion and Advertising
 - Public Consultation Strategies
 - Survey Results
 - Public Feedback on Strategy Options
 - Dotmocracy
 - Plan Implementation
- SWMP Update
- Next Steps and Wrap Up



Project Schedule



Consultation Process

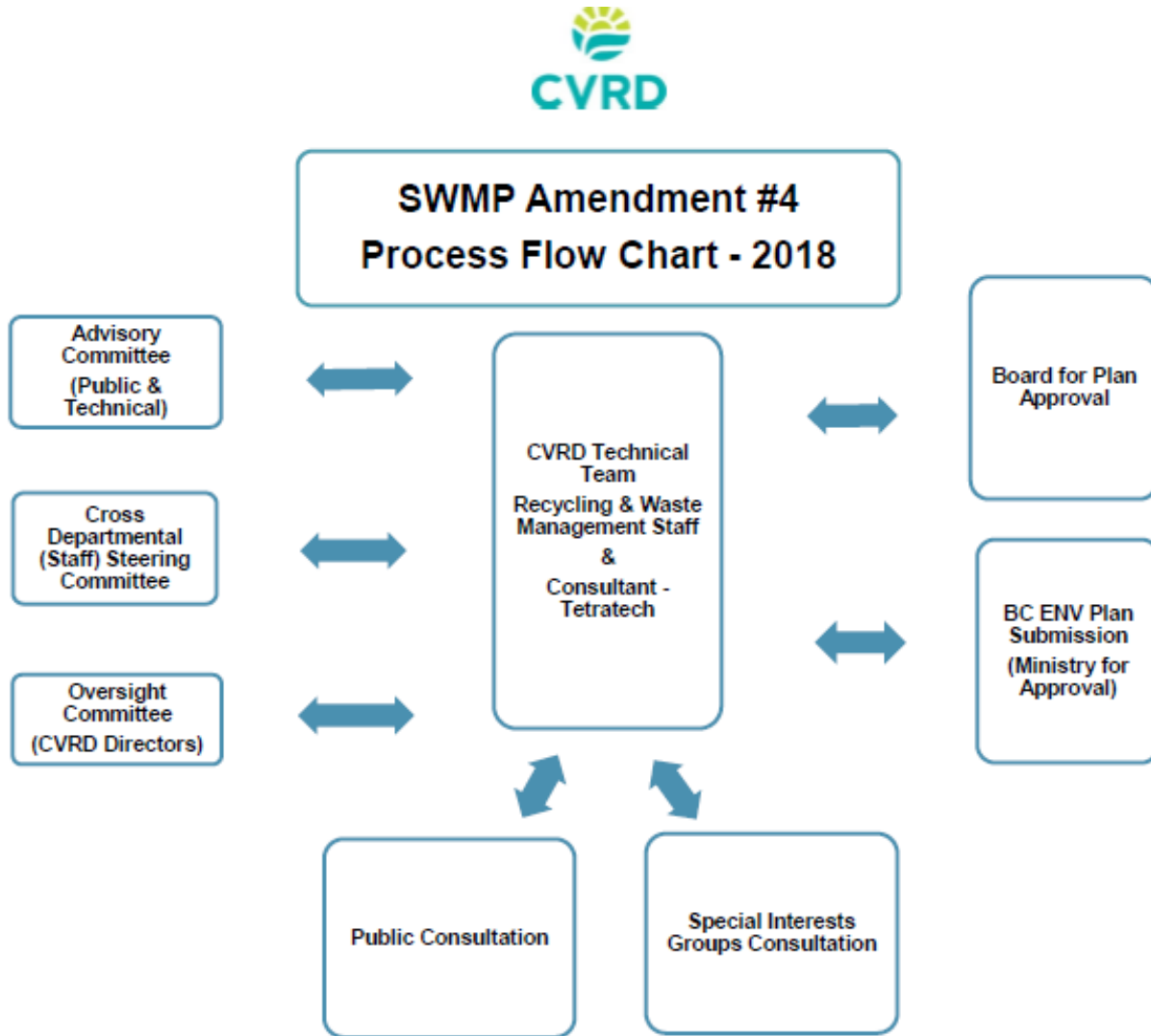
Table 4-1: Public Consultation Process

Consultation Phase	Consultation Component	Timing Details	Timeline (2018)
Phase 1 Initiation and Notification	CVRD Website & PlaceSpeak Launch	Prior to first PAC meeting	January - March
	Social Media Promotion		
	PAC Announcement		
	First Nations Outreach		
Phase 2 Set the Plan Direction	CVRD Website & PlaceSpeak Update	After the first PAC meeting	April - June
	Social Media Promotion		
	Online & In-Person Survey(s)		
	Open House		
Phase 3 Evaluate the Options	CVRD Website & PlaceSpeak Updates	After the SWMP Strategies, Budget and Timeline were presented to the PAC	August - September
	Social Media Promotion		
	Online and In-Person Survey(s)		
	Open Houses		
	Community Outreach		
	First Nations Outreach		
	Stakeholder Meetings		
Phase 4 Record and Incorporate Feedback	Compile and incorporate public feedback	After Phase 3 is completed, before final PAC meeting	September - October
	Compile and incorporate industry feedback		
	Present public consultation results to PAC		

Consultation Summary



SWMP Update Process Flow Chart



Consultation Objectives

- Inform the general public and potentially affected stakeholders about the content of the SWMP Update
- Provide various ways for interested parties to provide input and feedback on the SWMP Update
- Ensure the amended SWMP Update aligns with information gathered during the consultation feedback
- Address public consultation considerations outlined in the Solid Waste Management Planning Guide and meet Ministry requirements under the *Environment Management Act*

PAC and Oversight Committee

Table 3-1: PAC Membership

Community Interest	Interested Party	Affiliation	Community
Private Sector Waste Management Industry Service Provider	Andrea Davis ¹	PAN Disposal	Mill Bay Shawnigan Lake Cobble Hill
Non-Profit Group with an Interest in Solid Waste Management	Nathan Harben	Cowichan Green Community	Duncan
Large Solid Waste Generator/Institution representative	Monroe Grobe	School District 79	Regional
Business Representatives/ Private Sector Solid Waste Facility Representatives,	Dan Lazaro	Vancouver Island Recycling & Waste Industry Coalition	Regional
Members at Large for the Community	Sandy McPherson	Not applicable/Public	North Cowichan
	Kim Barnard	Not applicable/Public	Shawnigan Lake
	Denis Martel	Wilderness Watch Society/Public	Lake Cowichan
Regional District Staff	Tauseef Waraich Harmony Huffman	Cowichan Valley Regional District	Regional
Municipal Staff	Clay Reitsma Geoff Goodall Nagi Rizk ³ Len Thew ²	District of North Cowichan Town of Ladysmith Town of Lake Cowichan City of Duncan	North Cowichan Ladysmith Lake Cowichan Duncan
First Nations	Melissa Tokarek	Cowichan Tribes	Cowichan
Provincial Agencies	Melissa Kriegerfox	Island Health	Duncan Ladysmith

¹ Resigned on August 27, 2018 with one remaining PAC meeting (October 4, 2018)
² Position previously held by Mr. Emmet McCusker, City of Duncan
³ Mr. Nagi Rizk is no longer employed by the Town of Lake Cowichan as of July 27, 2018. No replacement was available, however, the Town's CAO, Mr. Joe Fernandez, has been included in all PAC communications.

Table 3-2: Oversight Committee Membership

Name	Affiliation	Community
Director Ian Morrison	CVRD Board	Electoral Area F
Director Sierra Acton	CVRD Board	Electoral Area B
Mayor Aaron Stone	CVRD Board Town of Ladysmith	Ladysmith
Councilor Bob K. Day	CVRD Board Town of Lake Cowichan	Lake Cowichan

Participation

- 1,599 individuals participated in the public consultation process
 - 21 In-Person participation events were held with 571 people reached
 - Three Web-based participation events (surveys) were held with 960 responses received
 - A total of 439 verbal and written comments were received



Participation

Table 5-1: In-Person Participation - Open Houses

Date	Location	Attendees
April 25, 2018	Duncan	19
August 28, 2018	Lake Cowichan	12
September 11, 2018	Cobble Hill	242
September 12, 2018	Saltair	35
Total Open House Attendees		308

Participation

Table 5-2: In-Person Participation - Stakeholder Meetings

Name/Organization	Type	Date	Location	Attendees
Town of Lake Cowichan	Stakeholder Meeting	March 7, 2018	Town of Lake Cowichan	1
PAN Disposal	Stakeholder Meeting	April 11, 2018	Duncan	2
Food Security Coalition	Stakeholder Meeting	April 19, 2018	Duncan	15
Solid Waste Industry Focus Group	Stakeholder Meeting	July 16, 2018	Duncan	23
Solid Waste Industry Focus Group Meeting	Stakeholder Meeting	August 7, 2018	Duncan	1
Elizabeth Compton Burn Pit	Stakeholder Meeting	August 21, 2018 (estimated)	Duncan	2
Total Stakeholder Meeting Attendees				44

Participation

Table 5-3: Web-Based Participation

Type	Dates Available	Information Provided or Collected	Participation Numbers
CVRD Community Satisfaction Survey (phone and online)	September, 2016	Resident input on quality of life, delivery of programs and services, and communications	700
CVRD website	February 8, 2018 and ongoing	Amendment process, overview, next steps. Background information including current Plan, technical memorandum, PAC meeting information, open house dates etc.	1,115
Social media promotion (Facebook and Twitter)	February 20, 2018 and ongoing	Project website and PAC nominations	17,762
PlaceSpeak website	April 25, 2018 and ongoing	Amendment process, overview, next steps. Background information including current Plan, technical memorandum, PAC meeting information, open house dates etc.	1,023
Survey 1	April 25, 2018	Solid Waste System Overview & Satisfaction	118
Survey 2	August 23, 2018	Feedback on Proposed Strategies	142
Total Web-Based Participation			20,860

Participation

Table 5-4: First Nations Participation

Community	Type	Date	Location
Lake Cowichan First Nation	Stakeholder Meeting	March 7, 2018	Lake Cowichan
Halalt First Nation	Stakeholder Meeting	March 14, 2018	Chemainus
Stz'uminus First Nation	Stakeholder Meeting	March 22, 2018	Duncan

Organization / Name	Email	Letter	Meeting	Phone	Grand Total
Cowichan Tribes	8	9		1	18
Ditidaht First Nation	4	1		1	6
Halalt First Nation	6	2	1	3	12
Hul'qumi'num Treaty Group	1				1
Lake Cowichan First Nation	5	4	1	4	14
Lyackson First Nation	2	1		1	4
Malahat First Nation	4	1		3	8
Pacheedaht First Nation	3	1		2	6
Pauquachin First Nation	2	3		1	6
Penelakut First Nation	5	4		4	13
Snuneymuxw First Nation	2				2
Stz'uminus First Nation	4	2	1	5	12
Grand Total	46	28	3	25	102

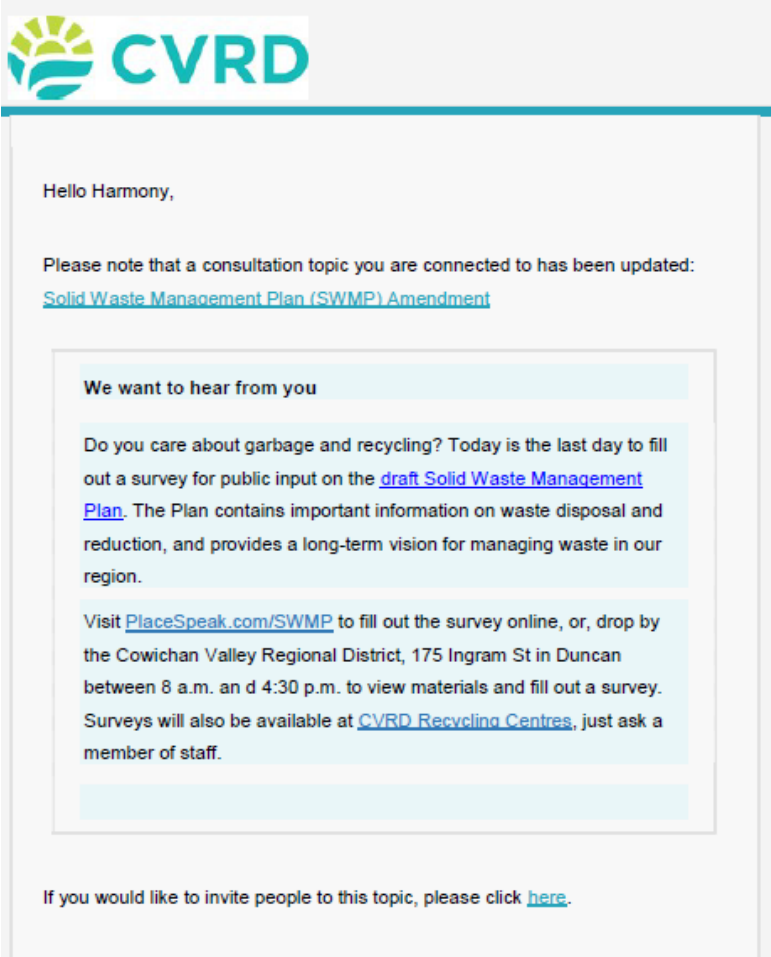
Participation


- Engagement Summary

Type of Engagement	Method	No. of Items / Events	Reach
Feedback Received	Email	86	84
	Letter	5	5
	Facebook Comment	4	3
Feedback Received Total		95	92
Participation (In-Person)	Meeting	9	47
	Open House	4	312
	Staffed information booth	8	188
Participation (In-Person) Total		21	547
Participation (Web-Based)	PlaceSpeak	5	1,023
	Social Media (Facebook)	16	13,192
	Social Media (Twitter)	8	4,570
	Survey	3	960
	Website	28	1,115
Participation (Web-Based) Total		60	20,860
Grand Total		176	21,499

Promotion and Advertising

- Over 80,000 reached through promotion
 - Newspaper and radio ads across region
 - 3,500 handouts distributed at Recycling Centres
 - E-Newsletter to 1,000+ businesses



 CVRD

Hello Harmony,

Please note that a consultation topic you are connected to has been updated:
[Solid Waste Management Plan \(SWMP\) Amendment](#)

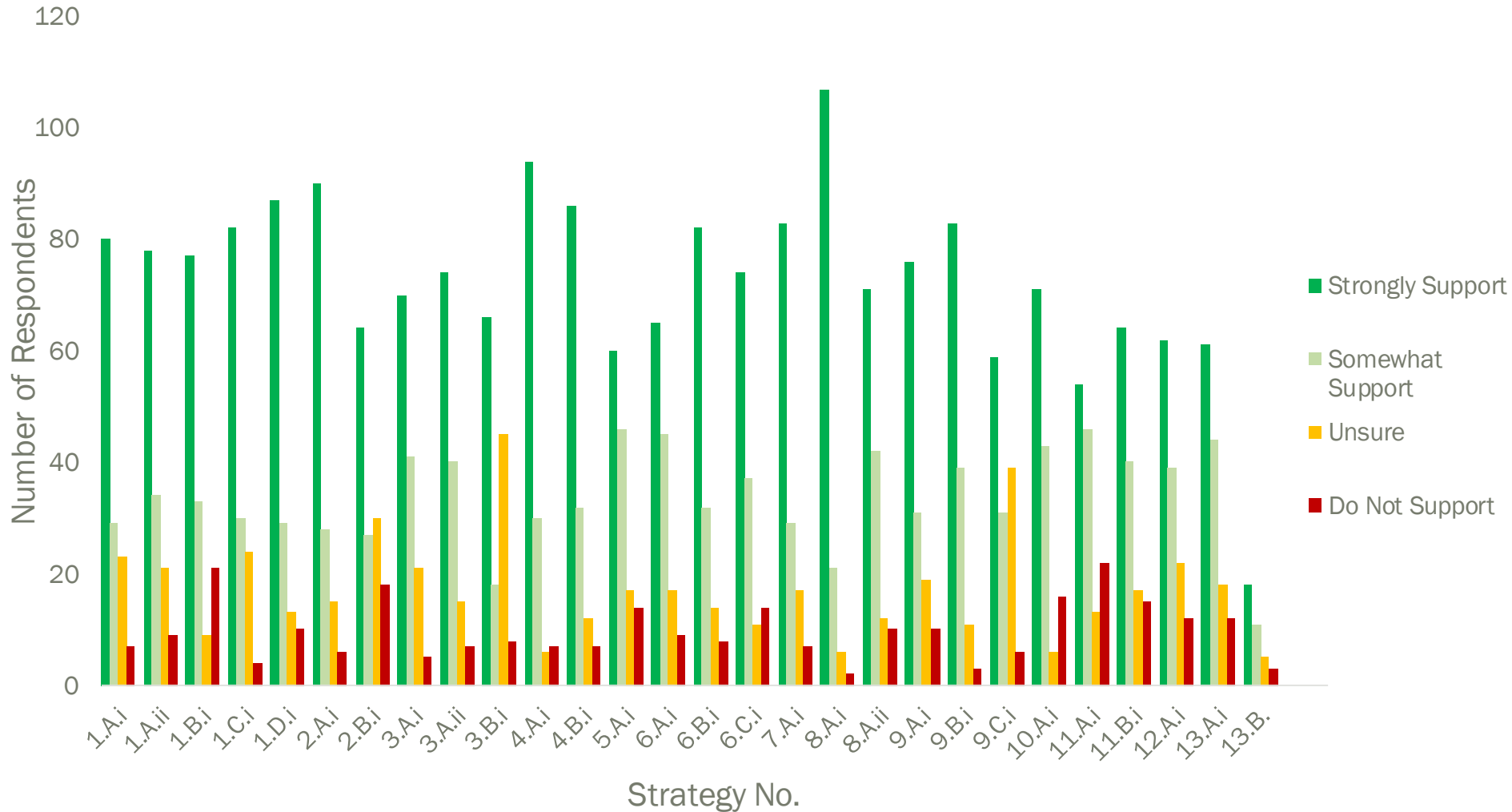
We want to hear from you

Do you care about garbage and recycling? Today is the last day to fill out a survey for public input on the [draft Solid Waste Management Plan](#). The Plan contains important information on waste disposal and reduction, and provides a long-term vision for managing waste in our region.

Visit [PlaceSpeak.com/SWMP](#) to fill out the survey online, or, drop by the Cowichan Valley Regional District, 175 Ingram St in Duncan between 8 a.m. and 4:30 p.m. to view materials and fill out a survey. Surveys will also be available at [CVRD Recycling Centres](#), just ask a member of staff.

If you would like to invite people to this topic, please click [here](#).

Consultation Feedback – Survey 2



Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
1. Enhance Reduce and Reuse Potential			
<ul style="list-style-type: none"> ▪ A. Reduce Wasted Food from Residential and Industrial, Commercial, and Institutional (ICI) Sectors <ul style="list-style-type: none"> – i. Promote residential food waste reduction through adoption of food waste prevention campaign 	78%	<ul style="list-style-type: none"> ▪ Support: Support cultural shift towards waste avoidance, interest in reducing disposable packaging through regulation and having manufacturers take responsibility for end of life management of products ▪ Concerns: Difficulty in implementing cultural shift programs and slower return on investment; problem is widespread and 'bigger than the CVRD' 	<ul style="list-style-type: none"> ▪ Included. Many community members support waste reduction and avoidance as part of a larger cultural shift and want the CVRD to support those efforts
<ul style="list-style-type: none"> ▪ A. Reduce Wasted Food from Residential and Industrial, Commercial, and Institutional (ICI) Sectors <ul style="list-style-type: none"> – ii. Support development of food rescue capacity within region 	79%		
<ul style="list-style-type: none"> ▪ B. Enhance and Improve Local Reuse Opportunities <ul style="list-style-type: none"> – i. Continue to explore further reduce and reuse opportunities 	86%		
<ul style="list-style-type: none"> ▪ C. Support Bans on Single-Use Plastic Bags or Other Single-Use Items <ul style="list-style-type: none"> – i. Adopt single-use plastic reduction policy and share with member municipal governments and UBCM 	79%		
<ul style="list-style-type: none"> ▪ D. Advocate for Expansion of EPR Programs <ul style="list-style-type: none"> – i. Continue advocacy work to Provincial government for expansion of EPR programs 	83%		

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
2. Reduce Disposal from ICI and Multi-Family Residential			
<ul style="list-style-type: none"> ▪ A Mandate Source Separation for Multi-family and ICI <ul style="list-style-type: none"> – i. Support development of bylaws mandating source separation for ICI sector and Multi-Family residential 	85%	<ul style="list-style-type: none"> ▪ Support: ICI is a large portion of the waste stream so it is an important sector to address with significant potential for diversion ▪ Concerns: Complex to implement due to multi-stakeholder and multi-jurisdictional nature, and generally requires some implementation years before significant tonnage results 	<ul style="list-style-type: none"> ▪ Included. ICI is a significant part of the waste stream; businesses will need support during the transition but are in a community with many early adopters, so the additional regulation will help to build the momentum
<ul style="list-style-type: none"> ▪ B Adopt a full organics disposal ban and enhance enforcement of existing material disposal bans <ul style="list-style-type: none"> – i. Adopt an organics disposal ban at the CVRD transfer station, and enhance enforcement of existing material disposal bans 	65%	<ul style="list-style-type: none"> ▪ Support: Provides impetus for food scraps collection programs to be adopted across sectors ▪ Concerns: Organics disposal ban should be implemented after (or in concert with) implementation of curbside organics collection. 	<ul style="list-style-type: none"> ▪ Included. It was recognized that services need to be available across sectors before a full disposal ban is put in place and there are logistics to manage regarding that transition

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support ¹	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
3. Reduce Disposal from Residential Sector			
<ul style="list-style-type: none"> ▪ A. Assess opportunities for access to recycling programs at depots <ul style="list-style-type: none"> – i. Evaluate opportunities to increase accessibility for public depots 	84%	<ul style="list-style-type: none"> ▪ Support: Longer hours of access to recycling depots are desired. ▪ Concerns: Subsidizing public depots could detract from user-pay system 	<ul style="list-style-type: none"> ▪ Included: many residents want more access to existing depots
<ul style="list-style-type: none"> ▪ A. Assess opportunities for access to recycling programs at depots <ul style="list-style-type: none"> – ii. Continue to assess depot service levels for the south end 	81%	<ul style="list-style-type: none"> ▪ Support: Access is deemed a significant factor compared to drop off costs or whether or not depots are run privately or publicly ▪ Concerns: The current depot is working well for many residents at present and there is no need to make any major change (i.e. build a public depot) at present 	<ul style="list-style-type: none"> ▪ Included. While there are some disparities re value compared to public depots (i.e. less up-front cost to users at public depots), private depots in the south end continue to offer quality service and are working with CVRD (e.g. contract to offer Recycle BC drop off at Fisher Road Recycling). It is important to monitor service levels to ensure that all residents have equal access and value to depot services.

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
3. Reduce Disposal from Residential Sector			
<ul style="list-style-type: none"> ▪ B. Adopt Universal Curbside Collection Services Across the Region <ul style="list-style-type: none"> – i. Adopt Universal Curbside Collection Services Across the Region 	61%	<ul style="list-style-type: none"> ▪ Support: Some electoral areas are not serviced by the current private collector; some residents in these areas desire curbside collection services. Support for waste reduction is prevalent and there is understanding that mandatory collection (including organics collection with foodscraps) actively reduces garbage tonnage and optimizes diversion. Support exists for region wide consistent collection service ▪ Concerns: Opt-in service is desirable for many and the current service provider is well-regarded. Residents striving for zero waste lifestyle and seasonal CVRD residents only need garbage collection occasionally and prefer to pay for collection services on an as-needed basis. 	<ul style="list-style-type: none"> ▪ Included. While significant concern was expressed about losing subscription service (and the current service provider), this strategy deals with the level of service and not the service provider. The strategy has been retained because evidence-based results show 35-40% garbage reduction with universal three stream curbside and this supports a shift and fills regional service gaps in CVRD Electoral Areas. Universal three-stream collection is also an important component in the effective implementation of a full landfill organics disposal ban (Strategy 2.B), supports SWMP goals and targets, and supports other CVRD and SWMP initiatives such as reducing illegal dumping and burning.

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
4. Improve Organics Processing			
<ul style="list-style-type: none"> ▪ A. Ensure Use of Best Management Practices for Odour Management <ul style="list-style-type: none"> – i. Continue to develop Bylaw 2570 to accommodate current and emerging technologies and ensure bylaw enforcement 	90%	<ul style="list-style-type: none"> ▪ Support: If organics bans occurs processing infrastructure must be able to accommodate more throughput. ▪ Concerns: Odour generation of organics processing facilities is key concern. 	<ul style="list-style-type: none"> ▪ Included. The community understands the importance of viable long-term organics processing to avoid odour issues, end market and other challenges; industry is committed to providing the service
<ul style="list-style-type: none"> ▪ B. Ensure Capacity for local Organics Processing <ul style="list-style-type: none"> – i. Continue to assess demand & capacity for organics processing, assess and accommodate emerging technologies and ensure effective end markets for final products before residuals disposal 	86%		
5. Investigate Processing and Transfer Capacity for Recyclables			
<ul style="list-style-type: none"> ▪ A. Feasibility Assessment for Transfer Capacity for ICI Recyclables <ul style="list-style-type: none"> – i. Assess gaps and recommend further opportunities for ICI transfer capacity and processing within the CVRD 	77%	<ul style="list-style-type: none"> ▪ Support: Save money and add efficiency by moving material in the most efficient way ▪ Concerns: There may not be enough tonnage for in-region processing (e.g., material recovery [MRF]); CVRD has land use challenges that need to be overcome through partnerships and creative solutions 	<ul style="list-style-type: none"> ▪ Included. How to best manage ICI recyclables has been adjusted, based on stakeholder feedback, to focus more specifically on ICI transfer as opposed to processing/MRF

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
6. Improve Management of Construction and Demolition			
<ul style="list-style-type: none"> ▪ A. Monitor C&D Disposal and Recycling Activities in the Region <ul style="list-style-type: none"> – i. Conduct C&D waste system analysis to identify issues, opportunities and gaps 	81%	<ul style="list-style-type: none"> ▪ Support: There is an understanding that more C&D materials can be diverted; there is support to address gaps to improve C&D diversion, including high disposal costs and lack of market drivers for wood waste and other C&D materials ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. It is understood that C&D and related hazardous components require accessible disposal options to prevent or reduce illegal dumping and environmental impacts
<ul style="list-style-type: none"> ▪ B. Develop a C&D Waste Management Strategy <ul style="list-style-type: none"> – i. Develop a C&D waste management strategy for the region 	84%		
<ul style="list-style-type: none"> ▪ C. Reduce Barriers to Disposing Hazardous Materials (asbestos, gypsum wallboard) <ul style="list-style-type: none"> – i. Assess options and prepare business case for different residential hazardous waste disposal options, e.g. cost subsidy for residential gypsum wallboard 	81%	<ul style="list-style-type: none"> ▪ Support: Proactive way of supporting residents (smaller generators) for how to deal with a challenging material, appreciation that it helps to reduce illegal dumping ▪ Concerns: No significant concerns noted 	

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
7. Explore Options for Local Disposal			
<ul style="list-style-type: none"> ▪ A. Review feasibility of alternative disposal options <ul style="list-style-type: none"> – i. Review available alternative local disposal options; if required, do feasibility study on alternative disposal options (e.g. Waste to Energy) 	82%	<ul style="list-style-type: none"> ▪ Support: General understanding that shipping garbage internationally involves managing significant cost and access risks, and may not be a sustainable solution ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. This is an ongoing priority that is recognized as a critical issue
<ul style="list-style-type: none"> ▪ B. Explore and Amend Tipping Fee <ul style="list-style-type: none"> – i. Review tipping fee in concert with consideration of future disposal options and update if needed. 	Not applicable	<ul style="list-style-type: none"> ▪ Support: Evaluate rising cost of MSW disposal versus tipping fees due to contract changes and US exchange rate to consider user pay and sustainability principles. Also, evaluate tipping fees as alternate options of disposal become available. ▪ Concerns: Tipping fee has not been increased since 2012 and net revenues have declined significantly in that time, meaning that requisition rates have increased to maintain a balanced budget. Increasing tipping fees as opposed to requisition rates covers disposal costs incurred directly and actively supports a user-pay approach to optimize diversion. 	<ul style="list-style-type: none"> ▪ For discussion at PAC Meeting 5.

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support:	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
8. Reduce Illegal Dumping			
<ul style="list-style-type: none"> ▪ A. Augment illegal dumping prevention strategies <ul style="list-style-type: none"> – i. Continue to assess and track illegal dumping activities, support volunteers and non-profit organizations for clean-up activities 	94%	<ul style="list-style-type: none"> ▪ Support: Visible problem that residents want to see handled effectively ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. Illegal dumping is an ongoing visible issue that the community wants to see addressed
<ul style="list-style-type: none"> ▪ A. Augment illegal dumping prevention strategies <ul style="list-style-type: none"> – ii. Implement multi-year illegal dumping education program using CBSM, and develop reporting program 	84%		
9. Collection/Drop off For HHW, Bulky Items, and Organics			
<ul style="list-style-type: none"> ▪ A. Implement collection program for unlabelled liquid HHW <ul style="list-style-type: none"> – i. Develop collection program(s) for residential un-labelled liquid HHW 	79%	<ul style="list-style-type: none"> ▪ Support: Understanding that toxic materials shouldn't go into landfill and need a better solution, will contribute to reducing illegal dumping ▪ Concerns: Cost to implement service in rural area may be higher than taxpayers are willing to accommodate 	<ul style="list-style-type: none"> ▪ Included. Support was shown for the need to handle these harder to recycle items
<ul style="list-style-type: none"> ▪ B. Improve recycling opportunities for bulky items <ul style="list-style-type: none"> – i. Assess options to support recycling of bulky items and prepare business case, e.g. subsidized annual collection of mattresses at Bings Creek. 	90%		
<ul style="list-style-type: none"> ▪ C. Assess effective ways to reduce open burning of wood waste <ul style="list-style-type: none"> – i. Identify and assess feasibility of options for reducing open burning of wood waste 	66%		
10. Monitor Historic Disposal Sites			
<ul style="list-style-type: none"> ▪ A Monitor Historic Disposal Sites <ul style="list-style-type: none"> – i Continue to monitor closed landfill (including ash landfill) sites as required by the Ministry of Environment; remediate outstanding contamination for CVRD owned or leased sites as necessary 	84%	<ul style="list-style-type: none"> ▪ Support: Protecting the environment is considered a priority ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. Required by the Ministry

Public Feedback on Strategy Options

Table 8-2: Public Feedback on Strategy Options

Strategy Options	Level of Survey Support	Support and Concerns	Strategy Decisions (rationale for why each option was or was not included)
11. Create an Asset Management Plan			
<ul style="list-style-type: none"> ▪ A. Review building and equipment assets and develop an O&M strategy <ul style="list-style-type: none"> – i. Develop Asset Management Plans for Bings, Peerless and Meade Creek facilities 	74%	<ul style="list-style-type: none"> ▪ Support: Residents rely on infrastructure and want it to work well. ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. Asset management is an existing CVRD initiative and important to optimize infrastructure over time.
<ul style="list-style-type: none"> ▪ B. Develop Bings Creek Transfer Station 10-Year Plan <ul style="list-style-type: none"> – i. Develop a ten-year site management plan for the Bings Creek Solid Waste Management facility 	76%		
12. Disaster Debris Management Plan			
<ul style="list-style-type: none"> ▪ A. Develop a Disaster Debris Management Plan <ul style="list-style-type: none"> – i. Develop a disaster debris management plan for solid waste services and infrastructure, as part of the corporate Disaster Management Plan 	75%	<ul style="list-style-type: none"> ▪ Support: People understand potential challenges if there was a disaster. ▪ Concerns: No significant concerns noted. 	<ul style="list-style-type: none"> ▪ Included. Support was shown for disaster debris management planning
13. Education and Behaviour Change Considerations			
<ul style="list-style-type: none"> ▪ A. Consider best management practices for Education and Behavior Change programs <ul style="list-style-type: none"> – i. Continue to assess and incorporate principles of CBSM into existing and new education and outreach programs as necessary 	78%	<ul style="list-style-type: none"> ▪ Support: People understand the importance of education and behavior change in encouraging the use of waste reduction and diversion approaches and systems ▪ Concerns: No significant concerns noted 	<ul style="list-style-type: none"> ▪ Included. Support was consistent for education and behaviour change efforts to optimize system use.
<ul style="list-style-type: none"> ▪ B. Continue to support and encourage recycling education through ongoing promotion of Zero Waste Events program 	78%		

Dotmocracy

- By Open House
 - 2- no dots were placed and three written comments were added to the boards
 - 3 - 631 dots and several written comments were added to the boards
 - 241 participants
 - Dots placed before presentation commenced
 - 4 - no dots or comments were placed on the boards



Appendices

Appendices	Title
1-1	List of Interested Parties
1-2	Board Certified Motion 18-27 SWMP Amendment 20180110
1-3	Board Certified Motion 18-38.3.1 SWMP PAC 20180124
1-4	Board Certified Motion 18-38.3.2 OC 20180124
1-5	Notification letter (Ministry)
1-6	Notification letter 1 (Stakeholders)
1-7	Notification letter 1a (Stakeholders)
1-8	Notification letter 2 (Stakeholders)
2-1	List of PAC Meetings
2-2	PAC Terms of Reference
2-3	PAC Agendas and Minutes Meetings 1-4
2-4	Flow Chart of SWMP Update Committees
3-1	CVRD 2018 SWMP Update Consultation Plan
4-1	Survey 1
4-2	Open House 1 storyboards
4-3	Open House 1 presentation
4-4	Survey 2
4-5	Open House 2 storyboards
4-6	Open House 2 presentation
4-7	Open House 3-4 storyboards
4-8	Open House 3-4 presentation

Appendices	Title
5-1	Summary of Participation Methods
5-2	Summary of all written comments received
5-3	Summary of Dotmocracy Responses
5-4	Summary of CVRD Community Satisfaction Survey Results (2016)
5-5	Summary of SWMP Update Survey 1 results
5-6	Summary of SWMP Update Survey 2 results
5-7	SWMP of written comments received (related to 3.B implementation)
6-1	Summary of SWMP Update Promotion Activities
6-2	Stage 1 Notifications
6-3	Stage 2 Open House Notifications
6-4	Stage 2 Survey 1 Notifications
6-5	Stage 3 Handouts
6-6	Stage 3 Media Release
6-7	Stage 3 Open House Notifications
6-8	Stage 3 Placespeak Updates
6-9	Stage 3 Public Consultation Notifications
6-10	Stage 3 Survey and Open House Notifications

SWMP Update



SWMP Update - Targets

- Interim Target – 2023 (5 year)
 - 280 kg/capita disposal rate
 - Implementation of Strategies 1-3 (waste reduction, ICI and residential systems with disposal ban)
- Plan Target – 2028 (10 year)
 - 250 kg/capita disposal rate
 - Optimization of Strategies 1-3 (system usage, disposal ban enforcement, and remaining strategies addressed to ensure system resilience)
- Long Term Target – 2040
 - 150 kg/capita disposal rate
 - Continued system and behaviour change improvements
 - Zero Waste Community



SWMP Update Proposed Schedule

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
01 Enhance Reduce and Reuse Potential										
A Reduce Wasted Food from Residential and Industrial, Commercial, and Institutional (ICI) Sectors										
B Enhance and Improve Local Reuse Opportunities										
C Support Bans on Single-Use Plastic Bags or Other Single-Use Items										
D Advocate for Expansion of EPR Programs										
02 Reduce Disposal from ICI and Multi-Family Residential										
A Mandate Source Separation for Multi-family and ICI										
B Adopt a Full Organics Disposal Ban and Enhance Enforcement of Existing Material Disposal Bans										
03 Reduce Disposal from Residential Sector										
A Assess Opportunities for Access to Recycling Programs at Depots										
B Adopt Universal Curbside Collection Services Across the Region										
04 Improve Organics Processing										
A Ensure Use of Best Management Practices for Odour Management										
B Ensure Capacity for Local Organics Processing										
05 Investigate Processing and Transfer Capacity for ICI Recyclables										
A Perform a Feasibility Assessment for Development of ICI Transfer Capacity										
06 Improve Management of Construction and Demolition Materials										
A Monitor C&D Disposal and Recycling Activities in the Region										
B Develop a C&D Waste Management Strategy										
C Reduce Barriers to Disposing Hazardous Materials (asbestos, gypsum wallboard)										
07 Explore Options for Local Disposal										
A Explore Options for Local Disposal										
08 Reduce Illegal Dumping										
A Augment Illegal Dumping Prevention Strategies										
09 Implement Collection/Drop off For HHW, Bulky Items, and Organics										
A Implement Collection for HHW										
B Improve Recycling Opportunities for Bulky Items										
C Assess Effective Ways to Reduce Open Burning of Wood Waste										
10 Monitor Historic Disposal Sites										
A Monitor Historic Disposal Sites										
11 Implement Asset Management Plan										
A Implement Asset Management Plan										
B Develop Bings Creek Transfer Station 10-Year Plan										
12 Develop a Disaster Debris Management Plan										
A Develop a Disaster Debris Management Plan										
13 Integrate Education and Behaviour Change Best Practices										
A Consider Best Management Practices for Education and Behavior Change Programs										

SWMP Update - Budget

Table 5-1: Ten Year Financial Plan

Year	1	2	3	4	5	6	7	8	9	10
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
CVRD FINANCIAL PLAN										
REVENUE										
Debt Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grants	\$ 33,765	\$ 33,940	\$ 34,119	\$ 34,302	\$ 34,488	\$ 34,678	\$ 34,871	\$ 35,069	\$ 35,270	\$ 35,475
Other	\$ 929,977	\$ 943,260	\$ 956,756	\$ 970,470	\$ 984,406	\$ 998,569	\$ 1,012,959	\$ 1,027,582	\$ 1,042,444	\$ 1,057,548
Proposed Requisition/Parcel Tax	\$ 4,694,622	\$ 4,805,002	\$ 4,987,643	\$ 5,245,618	\$ 5,205,432	\$ 5,575,274	\$ 5,493,935	\$ 5,688,298	\$ 5,895,110	\$ 5,937,514
Surplus/(Deficit)	\$ 340,284	\$ 170,855	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfer from Capital Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfer from Operating Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
User Fee	\$ 3,964,624	\$ 4,012,670	\$ 6,904,030	\$ 6,973,792	\$ 7,045,146	\$ 7,118,128	\$ 7,192,770	\$ 7,269,105	\$ 7,347,164	\$ 7,426,984
TOTAL OPERATING REVENUE	\$ 9,963,272	\$ 9,965,727	\$ 12,882,548	\$ 13,224,182	\$ 13,269,472	\$ 13,726,649	\$ 13,734,535	\$ 14,020,054	\$ 14,319,988	\$ 14,457,521
EXPENDITURES										
Existing Operating Expenditures										
Curbside Collection - Garbage	\$ 781,205	\$ 796,829	\$ 812,765	\$ 829,020	\$ 845,601	\$ 862,514	\$ 879,764	\$ 897,359	\$ 915,306	\$ 933,612
Curbside Collection - Recycling	\$ 376,212	\$ 234,964	\$ 239,663	\$ 244,456	\$ 249,344	\$ 254,330	\$ 259,419	\$ 264,610	\$ 269,902	\$ 275,300
CVRD Internal Allocations	\$ 544,066	\$ 556,401	\$ 568,984	\$ 581,818	\$ 594,910	\$ 608,263	\$ 621,882	\$ 635,774	\$ 649,943	\$ 664,396
Debt	\$ 786,318	\$ 786,318	\$ 741,228	\$ 741,228	\$ 741,228	\$ 741,228	\$ 741,228	\$ 741,228	\$ 741,228	\$ 741,228
Garbage Disposal	\$ 2,455,344	\$ 2,504,451	\$ 2,554,540	\$ 2,605,631	\$ 2,657,744	\$ 2,710,899	\$ 2,765,117	\$ 2,820,420	\$ 2,876,828	\$ 2,934,365
Legal & Administrative	\$ 202,113	\$ 206,155	\$ 210,276	\$ 214,482	\$ 218,771	\$ 223,145	\$ 227,609	\$ 232,161	\$ 236,804	\$ 241,543
Operations - Disposal	\$ 2,994,462	\$ 2,935,359	\$ 2,992,066	\$ 3,049,908	\$ 3,108,908	\$ 3,169,087	\$ 3,230,466	\$ 3,293,076	\$ 3,356,937	\$ 3,422,075
Operations - Recycling	\$ 1,182,591	\$ 1,206,244	\$ 1,230,368	\$ 1,254,975	\$ 1,280,076	\$ 1,305,679	\$ 1,331,792	\$ 1,358,428	\$ 1,385,595	\$ 1,413,305
Planning, Operations Support, and Execution	\$ 117,224	\$ 119,568	\$ 121,960	\$ 124,399	\$ 126,887	\$ 129,424	\$ 132,012	\$ 134,652	\$ 137,345	\$ 140,090
Reduction and Recycling Programs	\$ 30,015	\$ 30,616	\$ 31,228	\$ 31,853	\$ 32,490	\$ 33,140	\$ 33,803	\$ 34,479	\$ 35,169	\$ 35,873
Transfer to Reserve	\$ 320,000	\$ 324,000	\$ 328,080	\$ 332,242	\$ 336,487	\$ 340,817	\$ 345,233	\$ 349,738	\$ 354,333	\$ 359,020
Total Annual Existing Operating Expenditures	\$ 9,789,550	\$ 9,700,905	\$ 9,831,158	\$ 10,010,012	\$ 10,192,446	\$ 10,378,526	\$ 10,568,325	\$ 10,761,925	\$ 10,959,390	\$ 11,160,807
Existing Capital Expenditures										
Capital Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Existing Capital Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Existing Expenditures	\$ 9,789,550	\$ 9,700,905	\$ 9,831,158	\$ 10,010,012	\$ 10,192,446	\$ 10,378,526	\$ 10,568,325	\$ 10,761,925	\$ 10,959,390	\$ 11,160,807
Revenue - Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PROPOSED Operating Expenditures										
01 Enhance Reduce and Reuse Potential	\$ 18,000	\$ 36,000	\$ 21,000	\$ 3,000	\$ 3,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -
02 Reduce Disposal from ICI and Multi-Family Residential	\$ 5,000	\$ 27,500	\$ 45,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
03 Reduce Disposal from Residential Sector	\$ -	\$ -	\$ 2,695,348	\$ 2,739,248	\$ 2,784,026	\$ 2,829,700	\$ 2,876,287	\$ 2,923,806	\$ 2,972,275	\$ 3,021,714
04 Improve Organics Processing	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
05 Investigate Processing and Transfer Capacity for ICI Recyclables	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
06 Improve Management of Construction and Demolition Material	\$ -	\$ -	\$ 100,000	\$ 115,000	\$ 115,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
07 Explore Options for Local Disposal	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
08 Reduce Illegal Dumping	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
09 Implement Collection/Drop off for HHW, Bulky Items, and Org	\$ -	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ 175,000
10 Monitor Historic Disposal Sites	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11 Implement Asset Management Plan	\$ 115,722	\$ 11,322	\$ 15,042	\$ 146,922	\$ -	\$ 223,423	\$ 14,923	\$ 59,323	\$ 113,323	\$ -
12 Develop a Disaster Debris Management Plan	\$ -	\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13 Integrate Education and Behaviour Change Best Practices	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Proposed Operating Expenditures	\$ 173,722	\$ 264,822	\$ 3,051,390	\$ 3,214,170	\$ 3,077,026	\$ 3,348,123	\$ 3,166,210	\$ 3,258,129	\$ 3,360,598	\$ 3,296,714
PROPOSED Capital Expenditures										
No proposed capital expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Proposed Capital Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Proposed Expenditures	\$ 173,722	\$ 264,822	\$ 3,051,390	\$ 3,214,170	\$ 3,077,026	\$ 3,348,123	\$ 3,166,210	\$ 3,258,129	\$ 3,360,598	\$ 3,296,714
TOTAL OPERATING EXPENDITURES	\$ 9,963,272	\$ 9,965,727	\$ 12,882,548	\$ 13,224,182	\$ 13,269,472	\$ 13,726,649	\$ 13,734,535	\$ 14,020,054	\$ 14,319,988	\$ 14,457,521
TOTAL CAPITAL EXPENDITURES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENDITURES	\$ 9,963,272	\$ 9,965,727	\$ 12,882,548	\$ 13,224,182	\$ 13,269,472	\$ 13,726,649	\$ 13,734,535	\$ 14,020,054	\$ 14,319,988	\$ 14,457,521
Revenues - Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

SWMP Update

- Updates
 - Section 1
 - Comparison to other Island RDs
 - Section 2
 - Disposal Projections

Table 2-7: Disposal Projections³

Year	Population	Annual Disposal Rate (kg/capita)	Total Status Quo Annual Disposal (tonnes)	Adjusted Disposal Rate (kg/capita)	Adjusted Annual Disposal (tonnes)
2016	83,739	358	29,979	358	29,979
2020	87,217	358	31,224	320	27,909
2025	91,368	358	32,710	280	25,583
2030	95,199	358	34,081	250	23,800
2035	98,475	358	35,254	200	19,695
2040	101,074	358	36,184	150	15,161

SWMP Update

- Strategy 7: Explore Local Options for Disposal

Table 3-7: Options for Disposal (Short-Term)

Option	Description
Continue Waste Export	Currently, waste is placed in shipping containers, barged to the mainland, transported by rail to Southeastern Washington State, and taken to the Roosevelt Regional Landfill for disposal. The empty shipping containers are brought back to the CVRD to be filled with waste again. This disposal program costs approximately \$140 per tonne. Rabanco landfill is available for MSW disposal.
Landfill in BC	Cache Creek Landfill in Ashcroft will be available for MSW disposal in mid-2019. The feasibility of disposal at this landfill facility should be explored.
Waste to Energy (Private Facility)	It is possible that a new private (or public private partnership) WTE facility may be built on the island. Depending on the permits, the facility may be available within two to three years. The feasibility of disposal at this potential WTE facility should be explored.

Table 3-8: Options for Disposal (Long-Term)

Option	Description
Landfill Disposal on the Island	A new landfill was recently opened in Comox Valley. Preliminary conversations have indicated that the Comox Valley Regional District may be open to receiving waste from the Cowichan Valley Regional District. MSW disposal opportunities will continue to be explored as they arise in regional districts with landfills, including (but not limited to) the Alberni Clayoquot Regional District, Mount Waddington Regional District, the Regional District of Nanaimo and the Capital Regional District. The feasibility of disposal at available Vancouver Island landfills should be explored.
Waste to Energy (Public Facility)	Two recent studies reviewed the feasibility of a Waste to Energy (WTE) facility for southern Vancouver Island. Both studies determined that viable technology exists but is not economically feasible. However, if a new technology becomes available, a feasibility assessment should be carried out to further assess the viability of a business case for a public or P3 partnership WTE facility.
Waste to Energy (Private or owned by others Facility)	It is possible that a new private (or owned by others) WTE facility may be built within the Cowichan Valley. The feasibility of disposal at this potential WTE facility should be explored.

SWMP Update

- **Strategy 7.B.i. Explore and Amend Tipping Fee**
 - **Review tipping fee in concert with consideration of future disposal options and update if needed.**
 - The CVRD MSW tipping fee has remained unchanged since 2012. The current tipping fee is \$140 per tonne, which does not cover the full cost of processing and disposal. As future disposal options are considered, the tipping fee should be reviewed and updated as needed.

Next Steps

- PAC considerations
- Board approval
- Ministry approval
- Plan Monitoring Advisory Committee





Wrap up and Questions

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