



CENTRAL COAST REGIONAL DISTRICT
ECONOMIC DEVELOPMENT ADVISORY COMMITTEE
REGULAR MEETING MINUTES

DATE: November 24, 2016

ATTENTION

The EDAC minutes are draft and subject to amendment. Final approval and adoption by the EDAC will follow a resolution to receive the minutes by the CCRD Board of Directors, at their next scheduled meeting.

| |
|----------------------|
| Board Meeting |
| DEC 07 2016 |
| CCRD ITEM <u>CC1</u> |

ECONOMIC DEVELOPMENT ADVISORY COMMITTEE
REGULAR MEETING MINUTES – November 24, 2016

In Attendance: Ernest Hall (Community) – Acting Chair
Wilma Hallam (Community)
Keith Hamilton (Nuxalk Nation Development Corporation)
Tanis Shedden (CEDO) – Recording secretary

Apologies: Ana Santos (Denny Island), Garret Newkirk (Bella Coola Harbour Authority)

Absent: Chris Quinn (Community), Lori Campbell (Community), Sam Schooner (CCRD), Tracy Switzer (Ocean Falls)

No members of the public attended

1. Call to Order

The meeting was called to order at 7:04 pm.

2. Adoption of Agenda

(a) Introduction of late items –

5(e) Nuxalk Nation Development Corporation/Great Bear Cooperative, request for grant writer consideration

6(e) Coastal First Nations Fisheries Reconciliation Process, information

6(f) Mid-coast ferry advisory committee report, information

EDAC 16-11-01 M/S Hamilton/Hallam that the November 24, 2016 EDAC agenda be adopted as amended.

CARRIED

3. Adoption of Minutes

Keith Hamilton requested that it be noted that the scheduled meeting on September 21, 2016 was cancelled. The CEDO indicated that this was to accommodate EDAC members and their participation in the Destination Development Workshop during the day of September 21, 2016 and the Economic Development Building Blocks Workshop October 12, 2016.

EDAC 16-11-02 M/S Hallam/Hamilton that the July 21, 2016 EDAC minutes be adopted as received.

CARRIED

4. CCRD Community Economic Development Operating Plan 2016 - 2019

The CEDO explained that this economic development plan was designed to direct the general operations of the CCRD Economic Development services function. The goal was to ensure the document aligned with the organizations mandate and within the framework of the CCRD’s direct decision making capacity. The incorporation of relationship building objectives is to ensure that the

CCRD is taking steps to create the necessary foundation to start a collective regional economic development strategy that has all local governments and communities at the table.

Wilma Hallam asked for clarification about what 'Social Procurement' is. The CEDO explained that Social Procurement can take many forms, however the goal is to create positive social outcomes by requiring procurement processes to incorporate a community or 'social' benefit clause that gets weighted in the procurement process.

The CEDO asked the EDAC to bring forward any red flags, concerns, or issues so they may be addressed before being presented to the CCRD board of directors. The EDAC felt that as a guiding principle document, that is based on community economic/ground-up development principles, that it is achievable and goal oriented.

EDAC 16-11-03 M/S Hamilton/Hallam the EDAC recommends that the CCRD endorse the CCRD Economic Development Operating Plan 2016-2019.

CARRIED

5. Grant Writer Position/Collaborative Agreements

(a) Bella Coola Harbour Authority

The Bella Coola Harbour Authority submitted a request for consideration for the use of the 2017 contract grant-writer. The Bella Coola Harbour Authority is looking to apply for approximately \$20,000 in 2017 to create a pedestrian walk-way on the Easter breakwater.

EDAC raised concerns surrounding public liability and insurance due to the proximity of this walkway to the BC Packer/Mueller property. Keith Hamilton suggested that information be collected regarding action that can be taken to remedy the liability issues through official government channels.

EDAC 16-11-04 M/S Hallam/Hamilton the EDAC recommends that the Bella Coola Harbour Authority be included in the 2017 Community Economic Development Delivery Plan and the 2017 NDIT Grant-writer support application;

And, that the CCRD explore legal channels to mitigate the liability and environmental concerns of the privately owned former BC Packer property located near the Bella Coola Harbour.

CARRIED

(b) Bella Coola Valley Tourism

As president of Bella Coola Valley Tourism, Ernest Hall declared a conflict of interest and removed himself from the conversation.

Bella Coola Valley Tourism is currently working on a co-operative marketing program for the 2017/2018 season with the communities of Prince Rupert, Klemtu, and Owekeeno. Bella Coola Valley Tourism is intending on beginning the process for planning for the 2018/2019 season. At this time, BCVT is planning to update the regional guide and doing this by submitting an application to Destination BC by their November 30, 2017 deadline. Bella Coola Valley Tourism is seeking grant-writing assistance for this initiative. As well as, consideration for a financial contribution from the CCRD.

The EDAC took this as information as there was no longer a quorum.

(c) Bella Coola Valley Sustainable Agricultural Society

The Bella Coola Valley Sustainable Agricultural Society initiated the Wednesday Night Markets in Bella Coola in the summer of 2016. This was done with some assistance from the NDIT collaborative projects fund via the CCRD. A BCVSAS contractor has expressed an interest in pursuing the night markets again and has requested consideration for incorporation into the 2017 CCRD Community Economic Development Delivery Plan.

EDAC 16-11-05 M/S Hallam/Hamilton the EDAC recommends that the Bella Coola Valley Sustainable Agriculture Society be incorporated in the 2017 Community Economic Development Delivery Plan to support the implementation of the Bella Coola Night Markets.

(d) Central Coast Chamber of Commerce

The Central Coast Chamber of Commerce, Denny Island, has requested support to bring a more reliable and faster internet connection to the community. In preliminary investigation it has been determined that Denny Island is an unserved community and may be eligible for some funding through Northern Development Initiative Trust and the Rural Dividend program to support the communities efforts increase their connectivity.

The Central Coast Chamber of Commerce is requesting assistance and the use of the grant writer to assist in the application intake in 2017.

EDAC 16-11-06 M/S Hamilton/Hallam the EDAC recommends that the Central Coast Chamber of Commerce be included in the 2017 Community Economic Development Delivery Plan and the 2017 NDIT Grant-writer support application.

CARRIED

(e) Nuxalk Nation Development Corporation/Great Bear Co-operative

As CEO of Nuxalk Nation Development Corporation, Keith Hamilton declared a conflict of interest and removed himself from the discussion.

Nuxalk Nation Development Corporation has submitted a request for consideration for the use of the 2017 contract grant-writer. The grant would be acquired to perform market research for the development of their non-timber forest product line. The CEDO has looked into whether a business qualifies under the NDIT parameters and it has been determined that it does qualify. However, the CEDO has cautioned that additional research will need to be done to verify if allowing an individual business to use the CCRD grant-writer is viewed as lending assistance to private business, which is not allowed under the Local Government Act.

The EDAC took this as information as there was no longer a quorum.

6. Information/Discussion

(a) Destination Development

There have been two Destination BC Destination Development Planning sessions. Ernest Hall informed the EDAC that the next meeting is scheduled for January. It is unknown when a report will be distributed.

EDAC 16-11-07 M/S Hallam/Hamilton that the CEDO will request a draft report from Destination BC and the Cariboo Chilcotin Coast Tourism Association with regards to the destination development planning process and report back to the EDAC and the CCRD Board.

CARRIED

(b) Economic Development Building Blocks Workshop

The summary was provided for information purposes. The CEDO has incorporated the feedback into the CCRD Community Economic Development Operating Plan 2016-2019

(c) Love Central Coast BC

There is an annual grant of \$1200 and the CEDO suggested that consideration be given to creating Love Central Coast BC bucks as an incentive to shop in local shops.

(d) Call for members

The CEDO asked if there was an interest from the present members to remain on the EDAC this upcoming year. Keith Hamilton, Wilma Hallam, and Ernest Hall expressed continued interest. The CEDO requested that they consider other community members who may be interested in participating on EDAC and get back to her with names to send invitations to.

Keith Hamilton suggested that a different meeting time be explored. He suggested that a day time meeting may result in a better turn out. It was also recommended that shorter monthly meetings be explored, over the longer bi-monthly format.

The CEDO expressed that the EDAC is a valuable opportunity to share information, develop joint initiatives and receive feedback and direction. The CCRD will be advertising for open positions on committees and commissions in the weeks to come. The CEDO encouraged the EDAC to tell any interested parties to contact her for more information.

(e) Coastal First Nations Fisheries Reconciliation Process

Keith Hamilton provided information about the conversations that have started between Coastal First Nations and the Department of Fisheries and Oceans regarding reconciliation. The primary goal at this time is to increase the First Nations participation in the fisheries industry to 1/3. There is potential for this to create local jobs and fish plant opportunities in the remote and rural coastal communities of British Columbia. This process is in the early stages, but should be watched for substantial economic development potential in the Central Coast region.

(f) Mid-Coast Ferry Report

A second draft of the Tourism Development and Ferry Services report put forward by Aboriginal Tourism BC will be released shortly and it is anticipated that this will cover some information

regarding the proposed direct ferry service from Port Hardy to Bella Coola. Additional information will be made available as soon as the report is made public.

The next EDAC meeting was not schedule.

EDAC 16-07-07 M/S Hamilton/Hallam that the meeting of the Economic Development Advisory Committee be adjourned at 9:12 p.m.

CARRIED



**CENTRAL COAST REGIONAL DISTRICT
PUBLIC WORKS DEPARTMENT
NOVEMBER 2016 REPORT**

TO: Darla Blake, CAO
CC: Board Chair Alison Sayers and Board Members
DATE: November 30, 2016
FROM: Ken McIlwain, R.P.F. Public Works Manager
SUBJECT: Public Works Monthly Report

RECOMMENDATIONS:

1. **THAT the November 2016 Public Works Report be received.**
2. **THAT the CCRD Board of Directors approve the proposed SWMP Community Consultation Program and release of the draft Solid Waste Management Plan dated November 30, 2016 for public consultation.**

**PUBLIC WORKS FUNCTIONS AND SERVICES
NOVEMBER 2016 HIGHLIGHTS**

SOLID WASTE MANAGEMENT

1. Construction of the steel recycling building has advanced to the lock-up stage and electrical work and interior finishing are now under way. The slab for the front entrance is now complete and construction will proceed over the winter months.
2. Construction of the transfer station walls will begin in the spring.

RECREATION FACILITIES

1. Options for ice rink repairs are being investigated and are expected to proceed shortly.
2. New park signage has been installed at the junction of Walker Island Road and the Beaver Pond Road.

BELLA COOLA TOWNSITE WATER SYSTEM AND FIRE PROTECTION

1. Staff are working with the Bella Coola Volunteer Fire Department of updating operating procedures.

STRATEGIC PUBLIC WORKS INITIATIVES

| |
|----------------------|
| Board Meeting |
| DEC 07 2016 |
| CCRD ITEM <u>(m)</u> |

SOLID WASTE MANAGEMENT PLAN (SWMP) UPDATE

ACTION ITEM: At the last CCRD board meeting on November 10th, consultants Carey McIver and Maura Walker presented a draft version of the new Solid Waste Management Plan. Over the past several weeks, feedback and suggested changes from the Solid Waste Advisory Group (SWAG), CCRD Directors and staff has been included and a new draft version dated November 30th, 2016 is attached, along with a proposed Community Consultation Program in accordance with Ministry of Environment’s Solid Waste Management Planning Guidelines.

If the CCRD Board approves the draft plan to go to public consultation, the majority of consultation will take place in February. The results of the community consultation will be presented to the SWAG in late February and suggested changes to the draft plan will be completed at the end of February, with the final plan going to the CCRD Board for adoption at the March board meeting.

It is staff’s recommendation, that the board approve the attached Community Consultation Program and release the draft SWMP dated November 30th, 2016 for public consultation.

ASSET MANAGEMENT PLANNING

A condition assessment report has been received for the Bella Coola Airport runway, taxiways and aprons. Urban Systems is finalizing the draft Asset Management Plan and integrating the completed condition assessments have been were completed for the asphalt runways and aprons at Denny Island Airport and Bella Coola Airport. The results will be integrated into the CCRD Asset Management Plan.

SHEARWATER / DENNY ISLAND WATER

Staff are discussing water system options/costs with SD#49 and their engineer. There is good potential for collaboration. Staff from both organizations are looking at funding options and timelines.

Respectfully submitted,



Ken McIlwain, RPF
Public Works Manager



Carey McIver & Associates Ltd.
ENVIRONMENTAL CONSULTANTS **TECHNICAL MEMORANDUM**

TO: Ken McIlwain

DATE: November 28, 2016

FROM: Maura Walker

PROJECT: Solid Waste Management Plan

SUBJECT: Community Consultation Program

Approval of the CCRD's updated Solid Waste Management Plan (SWMP) by the Minister of Environment requires the SWMP to have undergone adequate consultation with the general public and potentially affected stakeholders. This memo outlines the proposed consultation program, as developed in concert with the Solid Waste Advisory Group.

Objectives

- I. *Inform* the general public and potentially affected stakeholders about the content of the draft SWMP
- II. To *obtain input* from affected stakeholders (including general taxpayers) on the proposed plan components
- III. To meet the expectations of the Ministry of Environment for consultation associated with updating a SWMP.

Consultation Program

The proposed consultation activities to meet the objectives listed above are:

- An information sheet and survey mailed to each home in the Bella Coola Valley that describes the proposed actions, programs and infrastructure to enhance solid waste management in the Valley
- An on-line version of the survey
- A draw prize to increase participation in the survey
- Presentations to Nuxalk Nation Council
- Information posted on CCRD's website, with a link to the survey and email (for comments to be sent in by email)
- A media release
- Advertisements in the Coast Mountain News and, if possible, the Nuxalk newsletter
- Notices on local Facebook pages

Time Frame

The consultation period will run from February 1st to 18th, with the intention of reporting the results of the community feedback to the Solid Waste Advisory Group at their meeting on February 23rd. The milestones for the consultation program are listed in Table 1.



Table 1: Milestones

| | |
|------------------------------------|-------------------|
| Mail out of newsletter and survey | February 1 |
| Newspaper advertising | February 3 or 10 |
| Facebook postings | February 6 and 13 |
| Community Feedback Period | February 2 to 18 |
| Solid Waste Advisory Group Meeting | February 23 |
| Board report due | March 2 |
| Board Meeting | March 9 |

Table 2 presents the proposed tasks, schedule and responsible persons to implement the consultation program; with the key participants being Maura Walker (MW), Carey McIver (CM) and Ken McIlwain (KM).

Table 2: Work Plan for Community Consultation Program

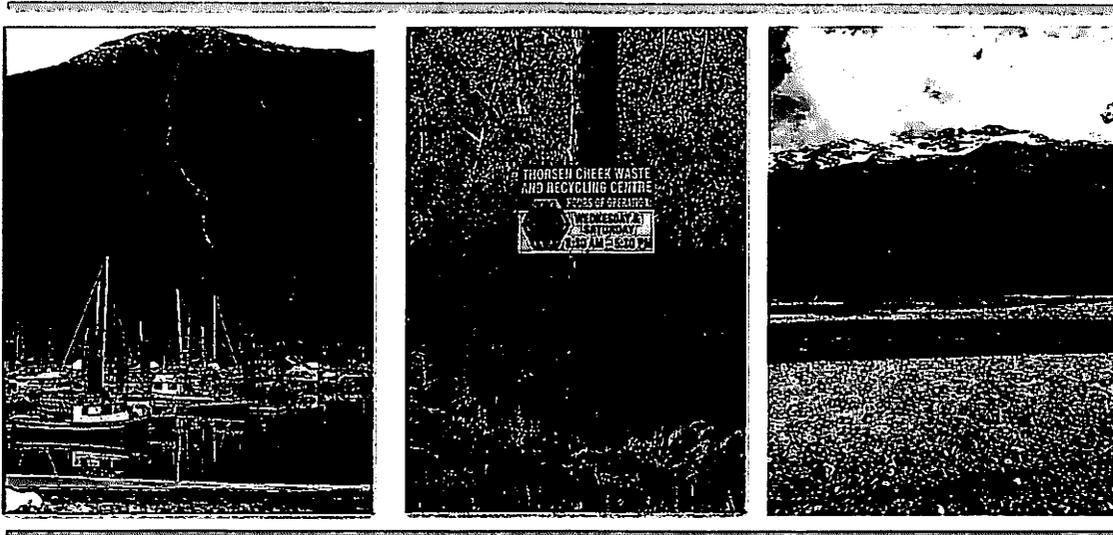
| TASK | Responsibility | Timing |
|--|----------------|-------------|
| 1. Newsletter/Survey | | |
| a. Draft version | MW | Dec 7 |
| b. Review and comment on draft | CM, KM | Dec 9 |
| c. Final content | MW | Dec 12 |
| d. Confirm prize | MW, KM | Nov 30 |
| e. Establish how hard copies will be collected | MW, KM | Dec 1 |
| f. Determine mail arrangements (will they be addressed or not) | KM | Jan 10 |
| g. Arrange for printing | KM | Jan 10 |
| h. Get mailing addresses, if needed (Valley and Nuxalk Nation lands) | KM | Jan 17 |
| i. Print newsletter/survey | Printer | Jan 23-30 |
| j. Deliver printed (and addressed, if needed) materials to post office | Printer or KM | Jan 31 |
| k. Mail out printed newsletter/questionnaire to all homes | Canada Post | Feb 1 |
| l. Prepare collection boxes or envelopes for collection locations | KM | Feb 1 |
| m. Deliver extra copies and collection containers to TCWRC and CCRD office | KM | Feb 1 |
| n. Retrieve hard copies from return locations | KM | Feb 11 & 18 |
| o. Enter hard copies responses into on-line survey tool | KM | Feb 20 |
| p. Award prize (draw at SWAG meeting) | KM | Feb 23 |
| q. Notify winner and arrange for prize | KM | Feb 24 |
| 2. On Line Survey | | |
| a. Determine who will set up and administer the on-line survey | KM, MW | Nov 30 |
| b. Arrange for on-line survey service | tbd | Jan 10 |
| c. Once hard copy content is finalized, put it on-line and test | tbd | Jan 31 |
| d. Have on-line version "go live" | tbd | Feb 2 |
| e. Download results | tbd | Feb 20 |
| f. Analyse and report on results | MW | Feb 20 |
| 3. Regional District Website | | |
| a. Prepare content | MW | Jan 23 |
| b. Put content on website (including link to questionnaire on homepage) | KM | Jan 30 |
| c. Have page go live | KM | Feb 1 |
| d. Update at the end of the planning process | MW, KM | Mar 17 |



| | | |
|---|--------|------------|
| 4. Media release re. SWMP and survey | | |
| a. Establish media distribution list | KM | Jan 13 |
| b. Draft content | MW | Jan 13 |
| c. Review and comment on draft | CM, KM | Jan 18 |
| d. Finalize content | MW | Jan 20 |
| e. Arrange for distribution to Coast Mountain News and other media | KM | tbd |
| 5. Print Advertising | | |
| a. Draft advertisement | MW | Jan 13 |
| b. Confirm advertising dates and deadlines <ul style="list-style-type: none"> • 2 rounds of ads in Coast Mountain News, if possible • 1 round of ads in Nuxalk newsletter | CM, KM | Jan 13 |
| c. Review and comment on draft | CM, KM | Jan 18 |
| d. Finalize content | MW | Jan 20 |
| e. Arrange for advertising in Coast Mountain News and Nuxalk Newsletter in the first weeks of February | KM | Jan 20 |
| 6. Social Media | | |
| a. Identify target Facebook pages | KM | Jan 13 |
| b. Prepare content | MW | Jan 20 |
| c. Post on target Facebook pages | KM | Feb 6 & 13 |
| 7. Nuxalk Council | | |
| a. Send letter to Council notifying them of the draft plan's contents and offer to meet and/or provide presentation to staff and/or Council. Include copy of draft plan. | KM | Jan 13 |
| b. Follow up on letter with a call to Administration | KM | Jan 23 |
| c. Set up meeting (if desired by the Nuxalk) | KM | tbd |
| d. Prepare presentation (if desired by the Nuxalk) | CM | tbd |
| e. Attend meeting | CM/KM | tbd |
| 8. Other | | |
| a. Send out email notice to SWAG and Board once questionnaire is live | MW/KM | Feb 2 |



Central Coast Regional District Solid Waste Management Plan



Draft for Discussion

Prepared by:

Carey McIver & Associates Ltd.

In collaboration with

Maura Walker & Associates

Draft/Final Date: November 30, 2016

Date Approved by Ministry of Environment:



Table of Contents

Table of Contents ii

List of Figures ii

1 Introduction 4

 1.1. Guiding Principles 4

 1.1 Pollution Prevention Hierarchy and Targets 5

2 Background 6

 2.1 Plan Area 6

 2.2 Plan History 8

 2.3 Existing Facilities 9

 2.4 Future Facilities 11

 2.5 Waste Generation and Management 12

3 Goals and Strategies 15

 3.1 Goal 1: Increase Waste Diversion 15

 3.2 Goal 2: Improve Landfill Management Practices 16

 3.3 Plan Targets 17

4 Finance 18

5 Plan Implementation 20

 5.1 Plan Implementation Schedule 20

 5.2 Plan Monitoring 20

 5.3 Annual reporting 21

 5.4 Five Year Effectiveness Review 21

 5.5 Plan Amendments 21

6 Plan Schedules 21

 6.1 Schedule A: Existing Solid Waste Management System 21

 6.2 Schedule B: Estimated Capital Expenditures for the TCWRC 2017-2026 21

List of Figures

Figure 1-1Pollution Prevention Hierarchy 5

Figure 2-1Map of the Central Coast Regional District 6

Figure 2-2Bella Coola Valley Waste Flows 9

Figure 2-3 New TCWRC Eco-Depot and Transfer Site 11

Figure 2-4Estimated Composition of Waste Disposed in the CCRD 13



List of Tables

Table 1-1 Provincial Guiding Principles 4

Table 2-1 CCRD Electoral Areas..... 7

Table 2-2 Estimated 2016 Population, By Community..... 7

Table 2-3 Estimated Diversion in the Bella Coola Valley 12

Table 2-4 Municipal Solid Waste Management Participants 14

Table 4-1 Solid Waste Management Base Funding 2017-2021..... 18

Table 4-2: Solid Waste Management Base and New Grant Funding 2017-2021..... 19

Table 5-1: Proposed Implementation Schedule..... 20



1 Introduction

In British Columbia, regional districts develop solid waste management plans under the provincial Environmental Management Act. These plans are long term visions of how each regional district would like to manage its solid wastes in accordance with the pollution prevention hierarchy. This plan will be renewed on a 10-year cycle to ensure that it reflects the current needs of the Central Coast Regional District (CCRD) as well as current market conditions, technologies and regulations.

The CCRD submitted their first solid waste management plan to the Province for approval in 1996. This plan was not approved due to concerns regarding plan financing. Consequently the CRRD revisited the planning process and prepared a revised plan which the Province approved in 2004. The history of the planning process is discussed further in section 2.2.

This draft document represents an update of the CCRD’s solid waste management plan and once approved by the Province (along with any approval conditions), becomes a regulatory document for solid waste management and serves to guide the solid waste management related activities and policy development in the CCRD. In conjunction with regulations and operational certificates that may apply, this plan regulates the operation of sites and facilities that make up the region’s waste management system (see Section 2.3).

1.1. Guiding Principles

The principles guiding the development and implementation of this plan are illustrated in Table 1-1.

Table 1-1 Provincial Guiding Principles

| | |
|----|---|
| 1. | Promote zero waste approaches and support a circular economy |
| 2. | Promote the first 3 Rs (Reduce, Reuse and Recycle) |
| 3. | Maximize beneficial use of waste materials and manage residuals appropriately |
| 4. | Support polluter and user-pay approaches and manage incentives to maximize behaviour outcomes <i>wherever practical</i> |
| 5. | Prevent organics and recyclables from going into the garbage wherever practical |
| 6. | Collaborate with other regional districts wherever practical |
| 7. | Develop collaborative partnerships with interested parties to achieve regional targets set in plans |
| 8. | Level the playing field within regions for private and public solid waste management facilities |

These guiding principles are identical to those established by the Province in the Guide to Solid Waste Management Planning with the exception of Principle 4. For this principle the CCRD has included the qualifier “wherever practical” given the challenges faced by the CCRD with respect to financing their solid waste services as discussed in Section 2.2.



1.1 Pollution Prevention Hierarchy and Targets

This plan adopts the 5 R pollution prevention hierarchy as illustrated in Figure 1.1

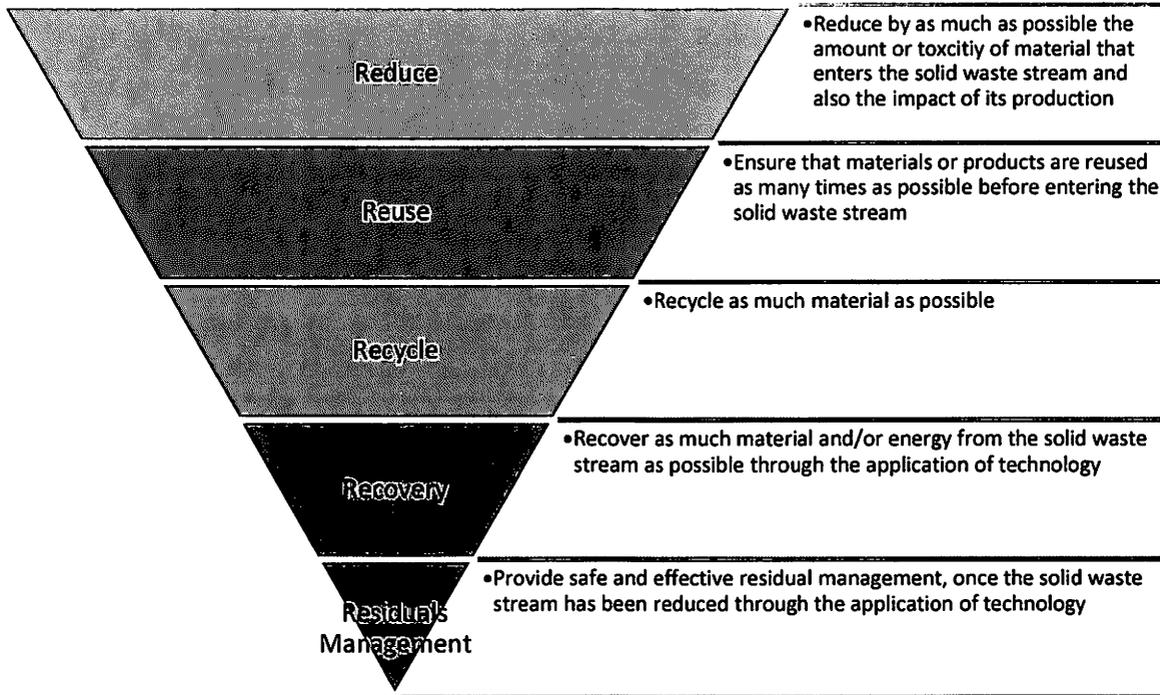


Figure 1-1 Pollution Prevention Hierarchy

Strategies to address the hierarchy are laid out in section 3. Implementation of these strategies over the plan’s 10-year timeframe is expected to contribute to a reduction in the provincial disposal rate, and result in achievement of the following regional target(s):

- Increase the diversion of residential packaging and printed paper from the MMBC reported 2016 baseline by 50% by 2021.
- Decrease the estimated per capita MSW disposal rate by 20% from the estimated 2016 baseline of 450 kg per capita (Note that measuring progress towards this target assumes the installation of weigh scales at the Thorsen Creek Waste and Recycling Centre).



2 Background

2.1 Plan Area

The Central Coast Regional District encompasses some 25,000 square kilometres on the central coast of British Columbia as indicated in Figure 2-1.

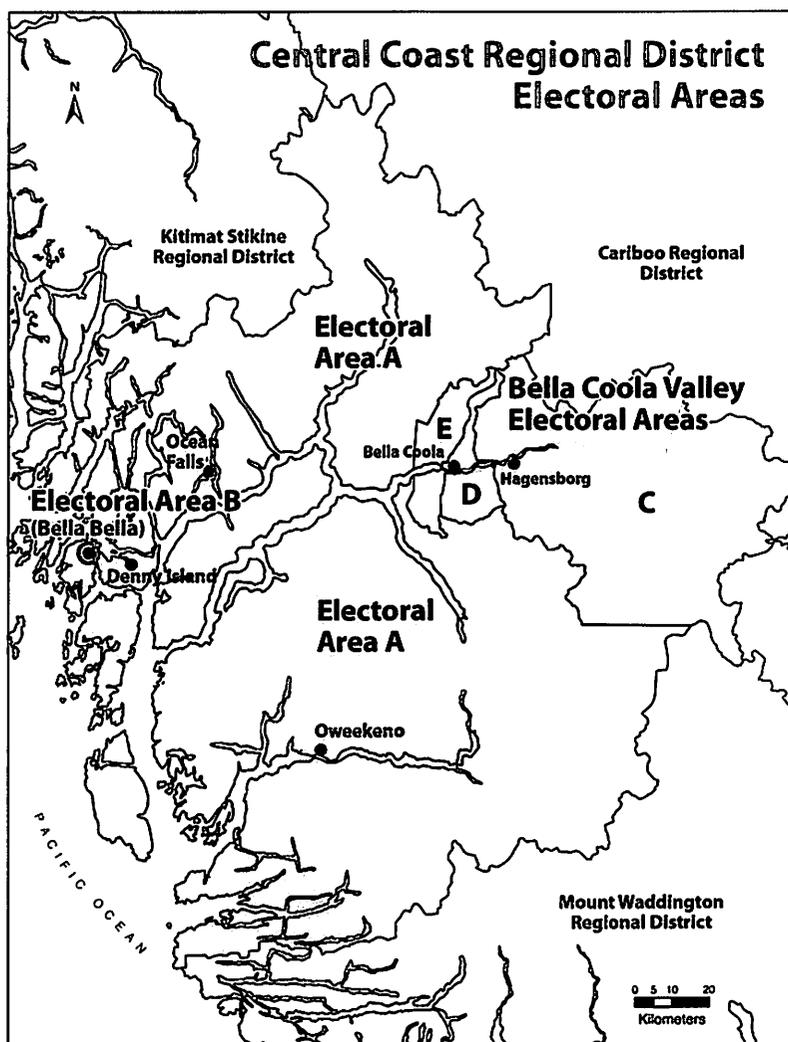


Figure 2-1 Map of the Central Coast Regional District

The regional district contains five electoral areas and is unique in British Columbia in that that it is the only regional district which contains no incorporated municipalities within its boundaries. A detailed description of the electoral area boundaries is presented in Table 2-1.



Table 2-1 CCRD Electoral Areas

| | |
|-------------------------|--|
| Electoral Area A | Commonly referred to as the “Outer Coast,” Area A includes Ocean Falls, Denny Island and Oweekeno, and all points in between. The boundary commences west of the Bella Coola town site and follows the regional district boundaries north almost to the First Nations community of Klemtu, and south past Rivers Inlet and Oweekeno, home of the Wuikinuxv First Nation. |
| Electoral Area B | Consists of seven square kilometres and is located on Campbell Island, also known as Bella Bella. The Heiltsuk community is primarily comprised of First Nations residents. |
| Electoral Area C | Located in the eastern portion of the regional district, at the upper end of the Bella Coola Valley and borders the Cariboo Regional District |
| Electoral Area D | Commences in Hagensborg and runs from the Augsburg Church west to Tatsquan Creek |
| Electoral Area E | The Bella Coola town site and consists of a small residential population and contains the majority of the commercial activity in the valley. |

The population of the CCRD has remained relatively unchanged since the 2006 census. BC Stats estimates the 2016 population to be 3,350 residents. In twenty years, the population is projected to be 3,831. Population density in CCRD is 0.13 persons per square kilometer. This means that the CCRD has the lowest population and population density amongst BC regional districts.

Table 2-2 provides a breakdown of this population by community.

Table 2-2 Estimated 2016 Population, By Community

| Area | % of CCRD total | Estimated Population |
|--|-----------------|----------------------|
| Bella Coola Valley | 59% | 1,973 |
| Bella Bella | 36% | 1,206 |
| Ocean Falls | 1% | 35 |
| Denny Island | 2% | 70 |
| Oweekeno | 2% | 66 |
| Central Coast Regional District | 100% | 3,350 |

The Bella Coola Valley (Electoral Areas C, D and E) is the main population centre in the CCRD and the only area where the Regional District provides solid waste management services to an estimated population of roughly 2,000 residents. Approximately half of the population of the valley are members of the Nuxalk Nation that live on reserve lands. The Nuxalk Nation has a financial agreement with the CCRD that enables them to participate to the CCRD’s solid waste service.



Bella Bella (Electoral Area B), located on Campbell Island consists primarily of the Heiltsuk Nation who operate their own solid waste management system with support from Indian and Northern Affairs Canada (INAC). Bella Bella does not participate in the CCRD solid waste management service.

Denny Island (Electoral Area A) is home to the Shearwater Resort & Marina and roughly 70 residents. The community is also serviced by BC Ferries and is a popular destination for boaters. The Shearwater Resort & Marina provide recycling and residual waste management services to the island. Denny Island does not currently participate in the CCRD solid waste management service.

Ocean Falls (Electoral Area A) is a community of roughly 35-60 people, most of which are summer residents only. The community is serviced by BC Ferries. The area is governed by the Ocean Falls Improvement District (OFID) who provide solid waste management services to the community. Ocean Falls does not currently participate in the CCRD solid waste management function.

Oweekeno (Electoral Area A) is a community of roughly 66 residents from the Wuikinuxv Nation who, like the Heiltsuk on Bella Bella, operate their own solid waste management system with support from INAC. Oweekeno does not participate in the CCRD solid waste management service.

Consequently the goals, strategies and actions identified in this plan apply to Electoral Areas C, D and E located in the Bella Coola Valley. Over this plan's ten year time-frame the CCRD will consult with residents on Denny Island and in Ocean Falls regarding their willingness to participate in either a regional or local solid waste management service operated by the regional district.

2.2 Plan History

The CCRD began solid waste management planning in 1992 with provincial funding assistance. An advisory committee was struck and eventually a consultant was retained to draft the solid waste management plan. The general public was consulted and this effort was documented in the consultant's report.

The goal of the plan was to develop a comprehensive program of municipal solid waste management for a period of at least 20 years. The plan included strategies and actions that were economically and technically feasible, environmentally sound, acceptable to the public, and maximized the potential for adopting the Provincial pollution prevention hierarchy given the region's climate, remoteness and financial resources.

The key method for achieving the plan's waste reduction goals was a comprehensive education strategy that encouraged backyard composting, the use of existing Provincial stewardship programs, as well as a proposed Free Store and other recycling options that would be made available at the Bella Coola Valley landfill. The Plan also included residual management strategies to improve the operation and environmental impact of the Bella Coola Valley landfill.

At the time of plan development, the community was opposed to the implementation of tipping fees at the Bella Coola Valley landfill because all parties were sure that that user fees would not work. The community was also opposed to raising money through taxation given that 50 percent of the area's population were from the Nuxalk Nation and did not contribute to property taxes. Instead the plan recommended a system whereby the regional district would issue business licenses and use the



resulting revenues for solid waste operations. This system was seen to be more equitable and supportive of a user pay approach.

This plan was submitted to the Province for approval in 1996. Although Provincial environment staff was satisfied that the plan fulfilled their requirements for solid waste plans, the Inspector of Municipalities did not approve the proposed business licensing system and consequently the Minister of Environment could not approve the plan.

Consequently the CRRD restarted the planning process and prepared a revised plan based on the 1996 plan. The modified plan abandoned the concept of funding the solid waste management system through a business licensing system. In its place the new plan adopted a funding model that included traditional property taxes, a contribution from the Nuxalk Nation, and site user fees. This plan was submitted to and approved by the Minister of Environment in 2004. Information regarding the implementation of the 2004 Solid Waste Management Plan is contained in the Existing Solid Waste Management System report included as Schedule A.

2.3 Existing Facilities

Figure 2-2 shows the key areas of waste management in the Bella Coola Valley, as well as the general flow of waste from its source (waste generation), through the various collection channels, to either a diversion activity or disposal. These activities are supported by communication and education initiatives, as well as government policies and bylaws.

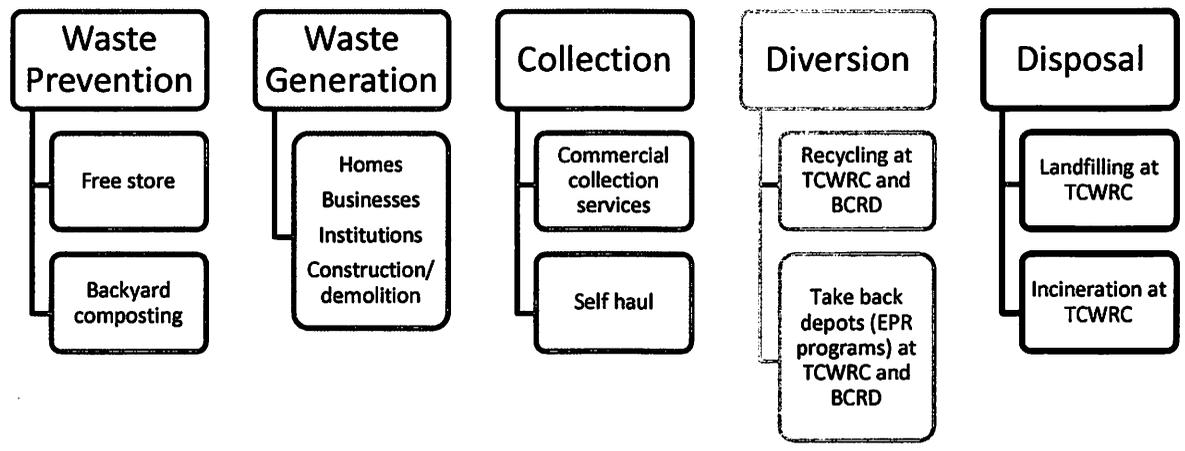


Figure 2-2 Bella Coola Valley Waste Flows

As indicated in Figure 2-2, municipal solid waste generated by residents, business and institutions is either self-hauled (by most residents) or collected by commercial collection vehicles (for some large businesses and institutions and a small number of residents) to either the Thorsen Creek Waste and Recycling Centre (TCWRC) or Bella Coola Recycling Depot (BCRD) for recycling and to the TCWRC for disposal.



The Thorsen Creek Waste and Recycling Centre (formerly the Bella Coola Landfill) serves as the primary facility for solid waste management in the Bella Coola Valley. This facility is authorized under Operational Certificate MR-4223 issued to the CCRD by the Province in 2006. The facility is currently open on Wednesdays and Saturdays from 8:30 am to 5:30 pm.

Features of the TCWRC include:

- A transfer area for small vehicles
- The active area for disposal of municipal solid waste (subject to daily cover using on-site gravelly soils)
- Electric fencing around the active filling area to detract bears from the site
- A scrap metal storage area
- A tire storage area
- Collection areas for a wide variety of EPR materials, including residential packaging and printed paper
- A Free Store for reusable items
- An area for burnable wood
- An area for burnable commercial cardboard
- A fill area for inert waste (e.g. concrete, asphalt shingles)

Issues associated with the Thorsen Creek Waste and Recycling Centre include:

- Lack of tipping fees on self-haul waste provides limited incentive to participate in recycling programs (household recyclables noted in bags of garbage deposited in the transfer bins)
- Minimal monitoring of incoming loads of garbage (for recyclables and hazardous materials)
- Free Store area is unkempt which may discourage some users in participating in this aspect of the Centre (Note: this issue should be improved once the new transfer station is operational).

Additionally, a review by landfill engineers from Morrison Hershfield in May 2016 indicated the following landfill-related issues at the TCWRC:

- Landfill does not have a design, operation and closure plan
- Filled areas have not undergone final cover (to minimize the infiltration of rain)
- The slopes of some of the filled areas are too steep and need to be regraded for long-term slope stability
- A groundwater monitoring program is needed.

Detailed information regarding the existing solid waste management system in the Bella Coola Valley as well as waste management system in the communities that are not participating in this plan (Bella Bella, Denny Island, Ocean Falls and Oweekeno) can be found in the Existing Solid Waste Management System Report attached as Schedule A.



2.4 Future Facilities

During this plan update process, the CCRD began the design and construction of an eco-depot and transfer station directly across the street from the landfill site. This facility has been designed to move public drop-off facilities off the landfill footprint to not only provide more disposal capacity but also to create a safe, efficient, self-haul drop off site that maximizes waste diversion. This \$660,000 facility is being funded through the Community Works Fund (CWF) which is part to the Federal Gas Tax Fund.

The new facility, which is scheduled to be operational by July 2017, will include an improved Free Store, recycling depot, grade separated drop-off area for garbage and construction/demolition waste, as well as areas for storage of major appliances and other product stewardship materials. A concept plan for the facility is provided in Figure 2-3

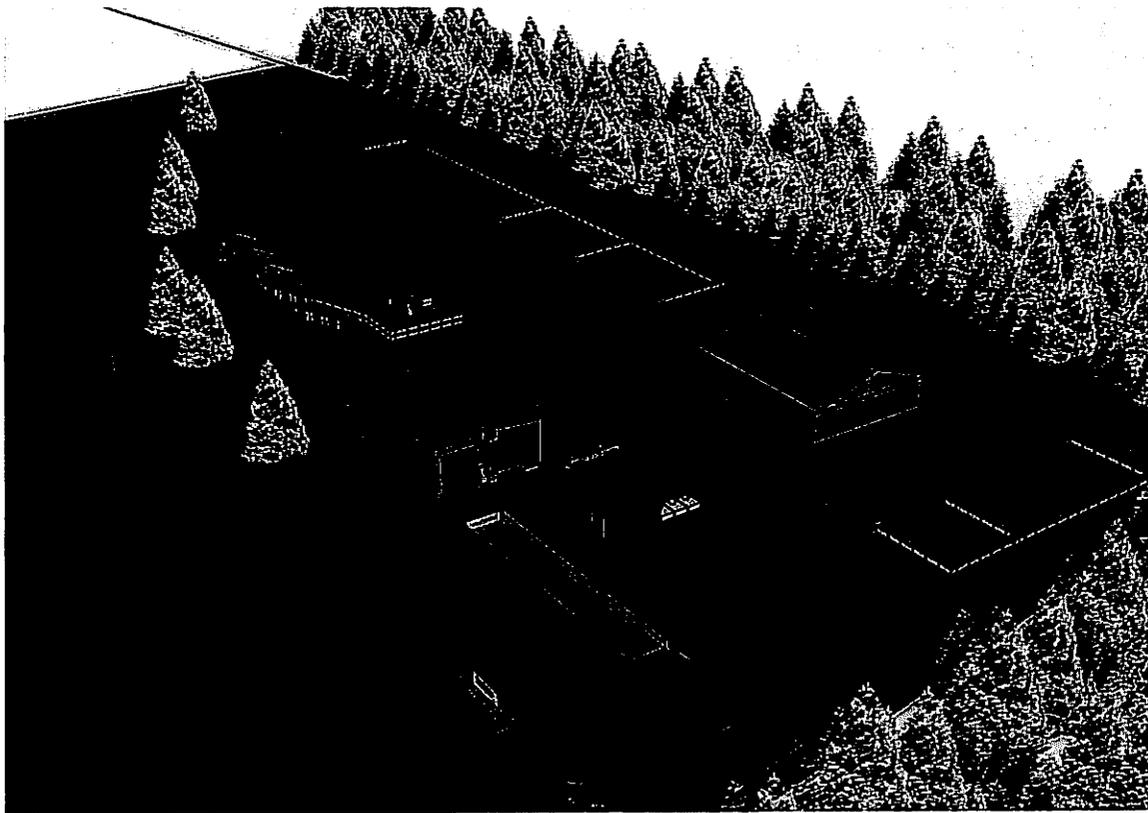


Figure 2-3 New TCWRC Eco-Depot and Transfer Site

Once the site is operational and all public activities have been removed from the landfill footprint, major improvements to landfill infrastructure will be implemented as discussed in Section 3.2.



2.5 Waste Generation and Management

Waste Disposal and Diversion

There are currently no scales at the Thorsen Creek Waste and Recycling Centre, consequently waste disposal for the Bella Coola Valley must be extrapolated from comparable communities with scales. Using an average of waste disposal data from Valemount, Port McNeill and Port Alice, it is estimated that the Bella Coola Valley disposes of roughly 450 kg per capita annually, including residential, commercial and construction/demolition sources. For the Bella Coola Valley, with an estimated population of 2,000, roughly 900 tonnes of waste is disposed (landfilled) annually.

The two main locations for recycling in the Bella Coola Valley are the Thorsen Creek Waste and Recycling Centre and the Bella Coola Recycling Depot. Collectively, these 2 facilities are estimated to divert 478 tonnes annually, as detailed in Table 2-3. Consequently, the estimated diversion rate for the Bella Coola Valley is 35%. (See Schedule A: Existing Solid Waste Management System for more details on diversion)

Table 2-3 Estimated Diversion in the Bella Coola Valley

| Material | Tonnes |
|-----------------------------|------------|
| EPR products | 155 |
| Tires (also an EPR product) | 48 |
| Scrap metal | 275 |
| TOTAL | 478 |

For regional comparative purposes, the community of Bella Bella, which operates their solid waste management system with support from INAC and provides residents with blue and red bins to store and transport their recyclables, a full-scale staffed recycling depot and a community compost program that currently provides service to 200 households, disposed of 467 tonnes of solid waste in 2015. This equates to a disposal rate of 389 kg per capita based on an estimated population of 1,200 residents.

For the CRRD as whole, the regional disposal rate would equate to roughly 1,435 tonnes annually for a regional disposal rate of 428 kg per capita annually. For provincial comparative purposes, the BC average disposal rate was 520 kg per capita based on 2014 data.

Waste Composition

Figure 2-4 shows the estimated composition (by weight) of the waste disposed of in the Bella Coola Valley. This is an estimate based on composition study undertaken by the Sunshine Coast Regional District at their Pender Harbour Transfer Station in 2015. Pender Harbour is a small community without municipal curbside collection services for garbage or recyclables.

As shown, the largest components of the landfilled waste stream, by weight, are compostable materials (30%), recyclable materials (26%, a combination of glass, paper, cardboard, plastic and metal) and building materials (17%). This study data is comparable to the composition of many BC communities and is intended to be illustrative of the potential opportunities to increase the amount of diversion of materials away from the landfill.

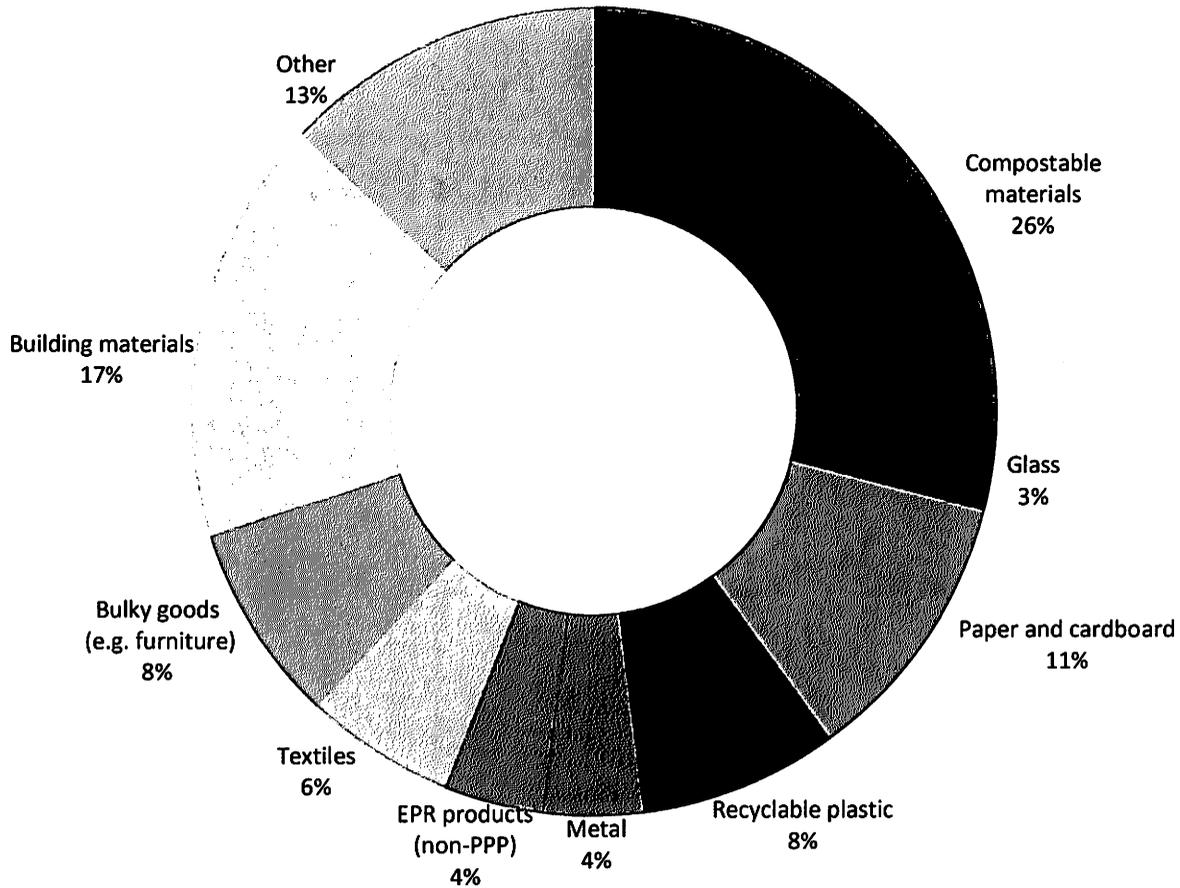


Figure 2-4 Estimated Composition of Waste Disposed in the CCRD

Based on observations at the TCWRC landfill and discussions with CCRD staff, it is estimated that 70% of the waste landfilled at TCWRC is residential and 30% comes from commercial sources such as businesses, construction and renovation projects, and institutions (schools, hospitals, government offices, etc.).



Waste Management System Participants

Table 2-4 provides a list of the various organizations that contribute to municipal solid waste management in the CCRD.

Table 2-4 Municipal Solid Waste Management Participants

| Who | Roles in Solid Waste Management |
|--|---|
| Federal Government | <ul style="list-style-type: none"> Provides solid waste management funding assistance to the Heiltsuk, Nuxalk and Wuikinuxv Nations through Indian and Northern Affairs Canada (INAC). |
| Provincial Government | <ul style="list-style-type: none"> Various ministries have regulatory authority related to waste management |
| Regional District (Board and staff) | <ul style="list-style-type: none"> Develops plan to provide big picture oversight of waste management in the region Through plans and plan implementation (including bylaws), works to meet waste disposal goals and targets and ensures that the community has access to waste management services that are environmentally sound and cost effective Ensures that legislative and policy requirements are followed, including monitoring and reporting Operates the Thorsen Creek Waste and Recycling Centre Supports Product Stewardship programs in the CCRD Provides waste management related education |
| First Nations | <ul style="list-style-type: none"> Provide waste management services (Heiltsuk and Wuikinuxv) and participate in the Bella Coola Valley waste management service (Nuxalk) |
| Product Stewardship Producers and Agencies | <ul style="list-style-type: none"> Ensure reasonable and free consumer access to collection facilities Collect/process stewarded products Coordinate local government delivery as a service provider where applicable Provide and/or fund education and marketing Provide deposit refunds to consumers (where applicable) Monitor/report on key performance indicators such as recovery rates |
| Private Sector | <ul style="list-style-type: none"> Provide recycling and waste management collection services to residents and businesses |
| Residents and Businesses | <ul style="list-style-type: none"> Responsible for carrying out proper waste reduction, recycling and disposal activities |



3 Goals and Strategies

The development of the 2016 Solid Waste Management Plan identified the following key goals for this plan to address:

Goal 1: Increase participation in diversion programs available at the Thorsen Creek Waste and Recycling Centre.

Goal 2: Improve landfill management practices at the Thorsen Creek Waste and Recycling Centre to meet the requirements of the new Provincial Landfill Criteria (June 2016).

The following strategies and actions have been developed to meet these goals and are consistent with the guiding principles outlined in Section 1.1.

3.1 Goal 1: Increase Waste Diversion

Strategy 1.1: Provide an integrated education and communications program to coincide with the opening of the new Eco-Depot and Transfer Station.

| <i>Actions:</i> | <i>Cost Estimate</i> |
|---|----------------------|
| • Improve the operation of the Free Store | Staff |
| • Increase the budget for communication and promotion activities such as a newsletter, website, news column and school education program | \$2,000 |
| • Hire a part-time waste diversion educator to work at the Eco-Depot and Transfer Station to raise awareness of diversion opportunities and train customers on the use of the facility and expected behaviors | \$8,000 |
| • Purchase blue boxes to help residents to store and transfer their recyclables. These boxes will be distributed free of charge from the new Eco-Depot combined with appropriate promotional materials and a short on-site training session | \$4,000 |

Strategy 1.2: Provide a community composting operation at the new Eco-Depot and Transfer Station

| <i>Actions:</i> | <i>Cost Estimate</i> |
|--|----------------------|
| • Undertake a feasibility study for organic waste composting to determine the potential for diversion and review options for composting such as that provided to residents of Bella Bella. | Staff |
| • Collaborate with the Nuxalk Nation regarding plans to build a waste water treatment plant and potential for co-composting of biosolids | Staff |



- Design and construct a small scale, basic compost building at the new Eco-Depot and Transfer Station. \$55,200
- Purchase/lease necessary equipment to prepare feedstocks and aerate compost piles \$115,000
- Develop a drop-off program for compostable waste Staff
- Incorporate wildlife conflict mitigation measures into compost operations Staff

Strategy 1.3: Provide regulatory incentives to encourage source-separation

- Actions:* *Cost Estimate*
- Amend Refuse Disposal Regulatory Bylaw No. 348, 2002 to not only reflect current operational policies and procedures at the TCWRC but also to restrict the disposal of Product Stewardship materials at the new Eco-Depot and Transfer Station Staff
 - Gradually increase revenues from user fees contained in the bylaw where practical to encourage waste diversion behaviors and improve the financial sustainability of the solid waste management system in the Bella Coola Valley. Staff
 - Restrict the disposal of commercial cardboard if the CCRD and MMBC are able to collaborate on the costs of transporting this material to markets. Staff

3.2 Goal 2: Improve Landfill Management Practices

Strategy 2.1: Strive to meet the requirements of the new Landfill Criteria where applicable, practical and financially viable

- Actions:* *Cost Estimate*
- Undertake a Landfill Criterial Conformance Review and prepare any required upgrading plans for items that are not already anticipated in this SWMP \$17,250
 - Prepare a filling plan and final landfill closure plan. These two plans are the priority for the Bella Coola Landfill as the filling plan will guide the operations for the site and the closure plan will outline where to fill to final contours and install interim/progressive cover to minimize infiltration of precipitation. \$51,750
 - Prepare a Design, Operations and Closure Plan (DOCP) to guide the landfill operations and outline the progressive closure strategy with the landfill lifespan in mind. The DOCP will incorporate the previous work described in the actions above as well as a lifespan analysis, closure plan and other requirements outlined in the Landfill Criteria. \$57,500



- Undertake a hydrogeology and hydrology assessment that will include a drilling program and the installation of monitoring wells to provide a better assessment of the potential impacts that the landfill may have on ground or surface water \$97,950
- Improve stormwater management at the site by constructing an interim cover system on the crest of the landfill and improve drainage to shed water away from the landfill \$327,750
- Purchase a portable scale to track the weight of materials transferred to disposal \$50,000
- Purchase an excavator, wheel loader and horizontal grinder if required \$500,000

Strategy 2.2: Increase the operational efficiency of the residual waste management system

| <i>Actions:</i> | <i>Cost Estimate</i> |
|---|----------------------|
| • Lease a roll-off truck and purchase roll-off bins to service the Eco-Depot and Transfer Station | \$230,000 |

Separate from the goals, strategies and actions described above, as discussed in Section 2.1, over this plan’s ten year time-frame the CCRD will consult with residents on Denny Island and in Ocean Falls regarding their willingness to participate in either a regional or local solid waste management service operated by the regional district.

3.3 Plan Targets

The Plan targets, as listed earlier in Section 1.1 are proposed to be:

- **Increase the diversion of residential packaging and printed paper from the reported MMBC 2016 baseline by 50% by 2021**
CCRD collects residential packaging and printed paper on behalf of the Multi-Material BC. All of the materials diverted to this EPR program are tracked and measured. The initiatives listed in this SWMP are intended to increase awareness and participation of available recycling opportunities. Increased participation in the MMBC program would provide an excellent indicator of the general success of these initiatives.
- **Decrease the estimated per capita MSW disposal rate by 20% from the estimated 2016 baseline of 450 kg per capita**
The Province has a goal to decrease the BC per capita disposal rate to 350 kg. By decreasing the per capita amount of disposal in the Bella Coola Valley, CCRD is contributing to achieving this Provincial goal. It is noted however, that the 2016 baseline of 450 kg per capita is an estimate only. Once weigh scales are installed at the Thorsen Creek Waste and Recycling Centre, this baseline number and disposal target may need to be adjusted accordingly.



4 Finance

As discussed in previous sections, the CCRD is a remote, rural regional district with limited financial resources. As indicated in Table 4-1, in the 2017 -2021 Financial Plan the annual base budget for solid waste management is less than roughly \$350,000 per year. This modest solid waste management service is funded through property taxes and the provincial basic grant (53%), Nuxalk Nation contribution (40%), EPR revenue (3%) and user fees (4%). To be able to undertake the programs and projects identified in this plan, the CCRD will need to obtain significant grant funding and/or assistance from INAC.

Table 4-1 Solid Waste Management Base Funding 2017-2021

| | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------------|------------------|------------------|------------------|------------------|
| REVENUE | | | | | |
| Property Tax | \$96,123 | \$98,045 | \$100,000 | \$100,000 | \$100,000 |
| Provincial Basic Grant | \$46,677 | \$46,777 | \$46,777 | \$46,777 | \$46,777 |
| Nuxalk Nation | \$103,750 | \$105,825 | \$107,942 | \$107,942 | \$107,942 |
| EPR Revenue | \$11,000 | \$12,200 | \$13,400 | \$14,600 | \$15,800 |
| User Fees | \$20,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 |
| Surplus | \$80,000 | \$0 | \$0 | \$0 | \$0 |
| Total Revenue | \$357,550 | \$287,847 | \$293,119 | \$294,319 | \$295,519 |
| EXPENDITURES | | | | | |
| Operating Expenditures | | | | | |
| Diversion Programs - Base Operating | \$69,358 | \$68,054 | \$64,981 | \$65,927 | \$66,890 |
| Residual Management - Base | \$208,192 | \$209,693 | \$218,038 | \$218,292 | \$218,529 |
| Total Annual Operating Expenditures | \$277,550 | \$277,747 | \$283,019 | \$284,219 | \$285,419 |
| Capital Expenditures | | | | | |
| Residual Management - Base | \$80,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 |
| Total Annual Expenditures | \$357,550 | \$287,747 | \$293,019 | \$294,219 | \$295,419 |

Table 4-2 summarizes the estimated capital and operating expenditures for current and new diversion and residual management services for the 2017-2021 financial plan time frame. Capital expenditures to improve landfill environmental control systems as well as equipment required for the new eco-depot, transfer station and compost facility increase significantly over the five year period. A detailed list of estimated expenditures and funding source is attached in Section 6 as Schedule B.

Operating expenditures for diversion programs have been adjusted to include additional annual funding of \$8,000 for a part-time educator, \$2,000 for communication/education materials and \$4,000 to purchase blue boxes for 2017 to 2018.



Table 4-2: Solid Waste Management Base and New Grant Funding 2017-2021

| | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------------|------------------|------------------|------------------|--------------------|
| REVENUE | | | | | |
| Property Tax | \$96,123 | \$98,045 | \$100,000 | \$100,000 | \$100,000 |
| Provincial Basic Grant | \$46,677 | \$46,777 | \$46,777 | \$46,777 | \$46,777 |
| Nuxalk Nation | \$103,750 | \$105,825 | \$107,942 | \$107,942 | \$107,942 |
| EPR Revenue | \$11,000 | \$12,200 | \$13,400 | \$14,600 | \$15,800 |
| User Fees | \$20,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 |
| Miscellaneous Revenue | \$0 | \$0 | \$0 | \$0 | \$0 |
| Surplus | \$80,000 | \$0 | \$0 | \$0 | \$0 |
| Sub-Total - Base Operating Revenue | \$357,550 | \$287,847 | \$293,119 | \$294,319 | \$295,519 |
| <i>Grants - Community Works Fund</i> | <i>\$17,250</i> | | | | |
| <i>Grants -INAC - Borrowing</i> | <i>\$51,750</i> | <i>\$152,950</i> | <i>\$151,250</i> | <i>\$66,500</i> | <i>\$798,750</i> |
| Sub-Total Grant Funding | \$69,000 | \$152,950 | \$151,250 | \$66,500 | \$798,750 |
| Total Revenue | \$426,550 | \$440,797 | \$444,369 | \$360,819 | \$1,094,269 |
| EXPENDITURES | | | | | |
| Operating Expenditures | | | | | |
| Diversion Programs - Base Operating | \$69,358 | \$68,054 | \$64,981 | \$65,927 | \$66,890 |
| Residual Management - Base | \$208,192 | \$209,693 | \$218,038 | \$218,292 | \$218,529 |
| Residual Management - New Grant | <i>\$69,000</i> | | <i>\$57,500</i> | <i>\$40,250</i> | |
| Total Annual Operating Expenditures | \$346,550 | \$277,747 | \$340,519 | \$324,469 | \$285,419 |
| Capital Expenditures | | | | | |
| Residual Management - Base | \$80,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 |
| <i>Residual Management - New Grant</i> | | <i>\$152,950</i> | <i>\$93,750</i> | <i>\$26,250</i> | <i>\$798,750</i> |
| Total Annual Capital Expenditures | \$80,000 | \$162,950 | \$103,750 | \$36,250 | \$808,750 |
| Total Annual Expenditures | \$426,550 | \$440,697 | \$444,269 | \$360,719 | \$1,094,169 |

Given the limited ability of the CCRD to fund required landfill capital improvements, as per Table 4-2, improvements will only be implemented with significant grant funding and borrowing.



5 Plan Implementation

5.1 Plan Implementation Schedule

Table 5-1 outlines the planned implementation schedule for the Solid Waste Management Plan from 2017 to 2026. Grant funding and borrowing will be required to fund the actions shown in yellow in this table.

Table 5-1: Proposed Implementation Schedule

| | Plan Actions | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|-----|---|------|------|------|------|------|------|------|------|------|------|
| 1.1 | Integrated education and communications program | | | | | | | | | | |
| | Improve Free Store | | | | | | | | | | |
| | Increase budget for education and communications | | | | | | | | | | |
| | Hire part-time educator | | | | | | | | | | |
| | Purchase and distribute blue boxes | | | | | | | | | | |
| 1.2 | Community composting at new Eco-Depot | | | | | | | | | | |
| | Feasibility study of organic waste composting | | | | | | | | | | |
| | Collaborate with Nuxalk on composting biosolids | | | | | | | | | | |
| | Design and construct compost building | | | | | | | | | | |
| | Purchase,lease new equipment | | | | | | | | | | |
| | Develop a drop-off program | | | | | | | | | | |
| | Implement wildlife conflict mitigation measures | | | | | | | | | | |
| 1.3 | Regulatory Incentives | | | | | | | | | | |
| | Amend bylaw - restrict EPR materials | | | | | | | | | | |
| | Gradually increase user fees | | | | | | | | | | |
| | Restrict disposal of commercial cardboard | | | | | | | | | | |
| 2.1 | Landfill conformance review | | | | | | | | | | |
| | Landfill fill plan and final closure plan | | | | | | | | | | |
| | Landfill design and operations and closure plan | | | | | | | | | | |
| | Hydrogeology and hydrology assessment | | | | | | | | | | |
| | Improve storm water management | | | | | | | | | | |
| | Purchase portable scale | | | | | | | | | | |
| | Purchase an excavator, wheel loader and grinder | | | | | | | | | | |
| 2.2 | Lease a roll-off truck and purchase roll off bins | | | | | | | | | | |

Legend:

Base funding programs - development

Base funding programs - on-going

Capital projects dependent on grants/borrowing



5.2 Plan Monitoring

The Solid Waste Advisory Group (SWAG) established to provide advice on this plan will monitor the implementation of the plan and make recommendations to increase its effectiveness.



5.3 Annual reporting

The CCRD will provide annual reporting to the Ministry of Environment of waste disposal information via the ministry’s municipal solid waste disposal calculator.

In addition the CCRD will also prepare an annual report to the Regional District Board. Topics that will be included in the report include:

- Programs delivered each year and how they support the waste management hierarchy, especially the first three Rs (reduce, reuse, recycle)
- The annual increase in the diversion of printed paper and packaging as reported by MMBC
- Challenges or opportunities identified by the SWAG
- Compliance activities
- Wildlife interactions and control measures

5.4 Five Year Effectiveness Review

The CCRD will carry out a review and report on the plan’s implementation and effectiveness in 2022. The review will be conducted in-house or by consultants and will include:

- Overview of all actions undertaken in the first five years to support the plan goals and objectives – status (started, progress, complete); actual budget for each
- Description of all actions not yet started and reason; budget allocated for each
- Five year trend information for waste diversion per person (based on MMBC reports)
- Summary of compliance activities taken and wildlife incidences over the past five years
- Based on plan data from the first five years, an analysis of what’s working well (strengths) and challenges meeting the plan goals and targets
- Based on the analysis, any recommended changes that the regional district would make to the plan and next steps regarding seeking those changes (consultation and minister approval for changes)

5.5 Plan Amendments

This plan represents the current understanding and approach to the solid waste management challenges faced by the CCRD. The plan is a “living document” that may be amended to reflect new considerations, technologies and issues as they arise.

6 Plan Schedules

6.1 Schedule A: Existing Solid Waste Management System

6.2 Schedule B: Estimated Capital Expenditures for the TCWRC 2017-2026