REGIONAL DISTRICT OF NANAIMO REGIONAL SOLID WASTE ADVISORY COMMITTEE MEETING

THURSDAY, FEBRUARY 19, 2015, 5:00 PM - 7:30 PM RDN Board Chambers (Dinner to be served)

AGENDA

PAGES	,
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CALL TO ORDER

DELEGATIONS

MINUTES

2-6 Minutes of the Regional Solid Waste Advisory Committee meeting held December 11, 2014.

BUSINESS ARISING FROM THE MINUTES

COMMUNICATIONS/CORRESPONDENCE

UNFINISHED BUSINESS

REPORTS

Future Population and Demographics (P. Thompson)

Finalize Consultation Plan (L. Gardner)

Stage One Review & Update (S. Horsburgh)

Finalize the Issues (S. Horsburgh)
-Meeting Schedule

Region Wide Newsletter & Survey Questions (S. Horsburgh)

Future Waste Generation Projections (L. Gardner)

ADDENDUM

BUSINESS ARISING FROM DELEGATIONS OR COMMUNICATIONS

NEW BUSINESS

ADJOURNMENT

Distribution:

Alec McPherson Chair, RDN Director Frank Van Eynde Member at Large Jeremy Jones **Business Representative** Ed Walsh Waste Management Industry Wally Wells **Business Representative** Jan Hastings Non Profit Representative Jim McTaggart-Cowan Member at Large John Finnie Member at Large **Craig Evans** Member at Large Ellen Ross Member at Large **Brian Dietrich** Member at Large Gerald Johnson Member at Large Michele Green Member at Large Amanda Ticknor Member at Large Rod Mayo Institutional Waste Generator

Michael Recalma Qualicum First Nation Chief & Council Nanoose First Nation Chief & Council Snuneymuxw First Nation Al Metcalf City of Parksville Al Cameron Town of Qualicum Beach Fred Spears District of Lantzville **Charlotte Davis** City of Nanaimo Al Leuschen Ministry of Environment **Environment Canada** Karen Muttersbach Glenn Gibson Island Health

Larry Gardner Manager, Solid Waste Services, RDN Sharon Horsburgh Senior Solid Waste Planner, RDN

Daniel Pearce A/GM Transportation & Solid Waste Services, RDN

Rebecca Graves Recording Secretary, RDN

For information only:

Regional Board Members: CAO's: Paul Thorkelsson (RDN), Twyla Graff (District of Lantzville), Marc Lefebvre (City of Parksville), Teunis Westbroek (Town of Qualicum)

REGIONAL DISTRICT OF NANAIMO REGIONAL SOLID WASTE ADVISORY COMMITTEE MEETING HELD ON THURSDAY, DECEMBER 11, 2014 BOARD CHAMBERS

Present:

Joe Stanhope	Chair, RDN Director	Michael Recalma	Qualicum First Nation
Frank Van Eynde	Member at Large	Al Cameron	Town of Qualicum Beach
Jan Hastings	Non Profit	Charlotte Davis	City of Nanaimo
	Representative		
Jim McTaggart-Cowan	Member at Large	Glenn Gibson	Island Heath
Kevin Arnold	Waste Management	Rod Mayo	Institutional Waste Generator
	Industry		
John Finnie	Member at Large	Brian Dietrich	Member at Large
Craig Evans	Member at Large	Gerald Johnson	Member at Large
Ellen Ross	Member at Large	Michele Green	Member at Large
		Amanda Ticknor	Member at Large

Also in Attendance:

Larry Gardner Manager of Solid Waste, RDN
Sharon Horsburgh Senior Solid Waste Planner, RDN

Daniel Pearce A/GM Transportation & Solid Waste Services, RDN

Rebecca Graves Recording Secretary, RDN

Paul Thorkelsson CAO, RDN

Regrets:

Chief & Council Nanoose First Nation Chief & Council Snuneymuxw First Nation Jeremy Jones **Business Representative** Wally Wells **Business Representative** Ed Walsh Waste Management Industry **Fred Spears** District of Lantzville Al Leuschen Ministry of Environment Karen Muttersbach **Environment Canada**

City of Parksville

CALL TO ORDER

Al Metcalf

The Chairperson called the meeting to order at 5:25 pm.

INTRODUCTIONS

L. Gardner welcomed the committee members and round table introductions were done by individual committee members.

MINUTES

MOVED F. Van Eyde, SECONDED J. McTaggert-Cowan, that the minutes from the meeting of the Regional Solid Waste Advisory Committee regular meeting held October 8, 2014, be adopted.

CARRIED

SOLID WASTE MANAGEMENT PLAN (SWMP) PROCESS & EVALUATION OF OPTIONS (L. Gardner)

L. Gardner gave a brief presentation which included an overview of the process and evaluation of options.

SWMP CONSULTATION PLAN (M. Walker & Associates)

M. Walker gave a presentation on the consultation process for Solid Waste Management Plans and its three stages. Stage 1 includes an assessment of the existing system, Stage 2 develops and evaluates options and strategies for the future and Stage 3 to obtain community feedback on preferred options and then finalize plan.

The consultation plan components include a ppublic and technical advisory committee(s), public and stakeholder consultation, First Nations consultation and Municipal consultation.

- G. Johnson asked what the committee members should do if they are approached by residents and Rate Payers Associations that may request a presentation? Who should they ask?
- L. Gardner commented that we do encourage committee members to talk to the community and inform them on the discussions that take place at these meetings but any press enquiries should be directed to RDN staff and if any presentations are requested to inform RDN staff.
- F. Van Enyde questioned if the Residents Association's want a presentation can we make them aware of what we are doing? Would we consider doing that or at least could the directors receive copies of the meeting minutes so they are aware of what is discussed?
- L. Gardner commented that we would be willing to provide presentations to community groups that are interested. The RDN will be but conducting extensive consultation as this is a regulatory requirement of the Plan review process.
- J. Hastings enquired on the process of developing the plan for our consultation and communications plan if that would happen tonight or if at least a better understanding on how we would approach the plan?
- M. Walker commented that we would at least come up with a consultation framework.
- J. McTaggart-Cowan questioned how do we control the online survey so there isn't a particular group flooding the comments?
- M. Walker clarified that the on line survey is only meant to test the waters and is a piece of information to help inform the process.
- C. Evans commented that at this stage he recommends having more preliminary meetings with associations or community groups and reach out and engage the public as soon as possible.

- J. Hastings remarked that people are really interested and should be educated first before making decisions. Does not believe we should have our first collaboration before we are selecting options.
- A. Ticknor questioned in regards to Stage 1 is the survey available to view on line?
- M. Walker replied that the survey is available for comments and that the draft newsletter will be sent out to homes and will be available on-line.
- C. Evans reiterated that in Stage 2 he feels it would be beneficial to have the information displays and public service announcements to the public and have the dialogue start rather than in Stage 3.
- J. McTaggart-Cowan mentioned that he believes it is the role of the committee members to bring that communication to various groups and present the information back to the group.
- J. Finnie agreed that public meetings tend to bring people in and have them be heard. By the time you get to Stage 3, a lot of people in the public will be saying you've already made the decisions.
- M. Walker commented that there is room for all ideas and the general public does want to be educated. Part of the committee's role is to represent the voice of the community and we need to bring that out.

PRIORITIZING THE ISSUES (S. Horsburgh)

- S. Horsburgh gave an overview of the presentation which included putting the SWMP review in context, today's reality and underlying challenge, strategic planning approach to decision making, prioritizing the issues exercise and the next steps involved. Stage 2 of the plan review will involve five key elements which include issue identification, public interests, internal and external stakeholders, key messaging, media and evaluation.
- J. McTaggart-Cowan questioned the waste success over the years of 2004 2012, what is the gross total in all the categories?
- S. Horsburgh answered that the total waste diversion was broken down into categories based on WSML reporting and landfill data. The data is included as an appendix in the Stage 1 report. The 2012 Waste Composition Study helps us to understand where the greatest diversion has been achieved.
- L. Gardner replied that what was provided was a composition study of what was and is in the waste stream, but what wasn't presented is the waste generation prediction for the future. Future predictions and any information needed can be compiled together and presented at next meeting.
- S. Horsburgh invited the committee to do a table top exercise to prioritize the issues that are marked on the posters and a review would follow.
- A. Ticknor questioned if the table top exercise would be available online to further comment?
- S. Horsburgh replied we can look at that it could be made available.

- J. Hastings questioned when this plan was developed, and the landfill bans were implemented was it anticipated that increased diversion would result in shrinking landfill revenue? If so, what is the thinking that can guide future budget planning?
- L. Gardner referred to some of the earlier discussion and work that has seen waste being exported off island because of increasing tipping fees in the region.
- J. Finnie commented that when he was involved with Solid Waste, there was some discussion about what might happen if and when waste diversion programs started impacting tipping fees, i.e. the implication being that a reduction in the quantity of waste going to landfill may require an increase in tip fees to maintain the infrastructure. This could drive even more waste away from the landfill to illegal dumping and/or other facilities (like out of province) and further exacerbate the problem. Without additional revenue, this arrangement becomes unsustainable.

OTHER

- L. Gardner noted that M. Walker will provide a recommended consultation framework and it will be available electronically. The plan is to have that framework available to adopt at our next meeting.
- L. Gardner also mentioned that the RDN will provide a report to the Board early in the New Year regarding potential to reduce tipping fees to stabilize our revenue. This will be done while the management plan is being worked on.
- G. Gibson questioned if the capacity at the Regional Landfill is able to accept an increased in percent of waste?
- L. Gardner replied that we are not trying to attract garbage flow into the landfill but rather trying to adjust the fee to help to stabilize the industry.
- J. Hastings asked what is the time frame attached to this recommendation?
- L. Gardner commented that it would be up to the Board.
- C. Evans enquired why not leave the tipping fee the same and ask the haulers to haul it away and pocket the difference rather than landfill the waste?
- L. Gardner replied if we can stabilize it then we can make rational decisions for the future because it has implications to affect what we've achieved to date and also the loss of tonnage has an economic impact on local jobs vs jobs elsewhere. One concern is that there is such a disparity in fees, if we wait a year to figure things out there maybe no opportunity to change things back.
- J. McTaggart-Cowan commented on lower the fees for industry but not for the public. If you reduce in one category you need to reduce for others.
- A. Cameron questioned in regards to the commercial haulers, would you take other haulers from other areas if the tipping fee is reduced?

RSWAC Minutes December 11, 2014

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- L. Gardner replied that our bylaw doesn't allow us accept material from out of district. But in terms of reduction, for commercial waste haulers, we are contemplating a reduced tipping fee for large generators.
- D. Pearce commented that it's important to state that we don't encourage more garbage to the landfill but determining where we are going with zero waste.

ADJOURNMENT

The meeting was adjourned at 7:40pm.

Alec McPherson	
CHAIRPERSON	



Solid Waste Advisory Committee

February • 2015

Population Growth and Housing in the RDN



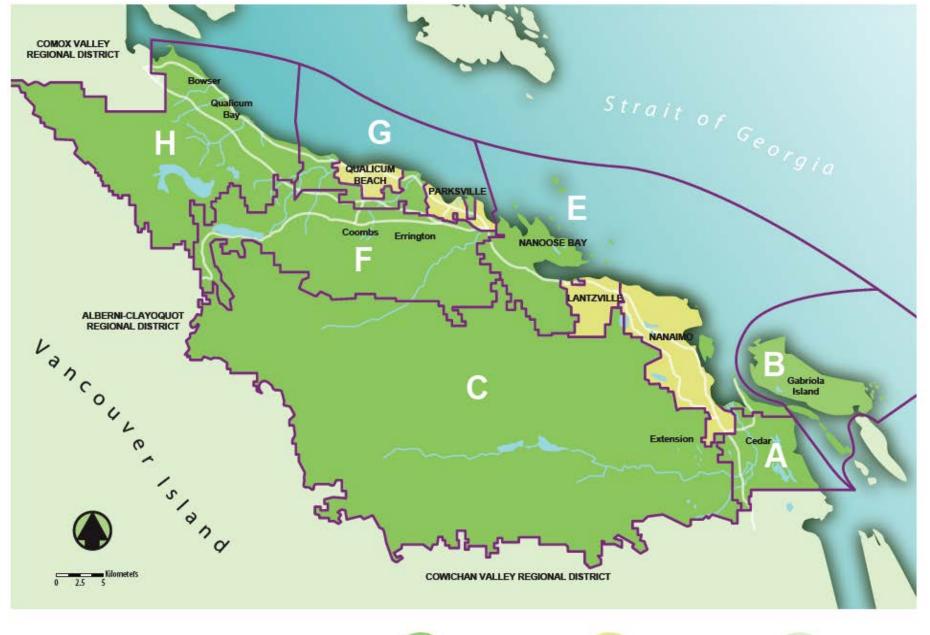


Population Growth

Population Profile (Age)

Population Distribution

Housing



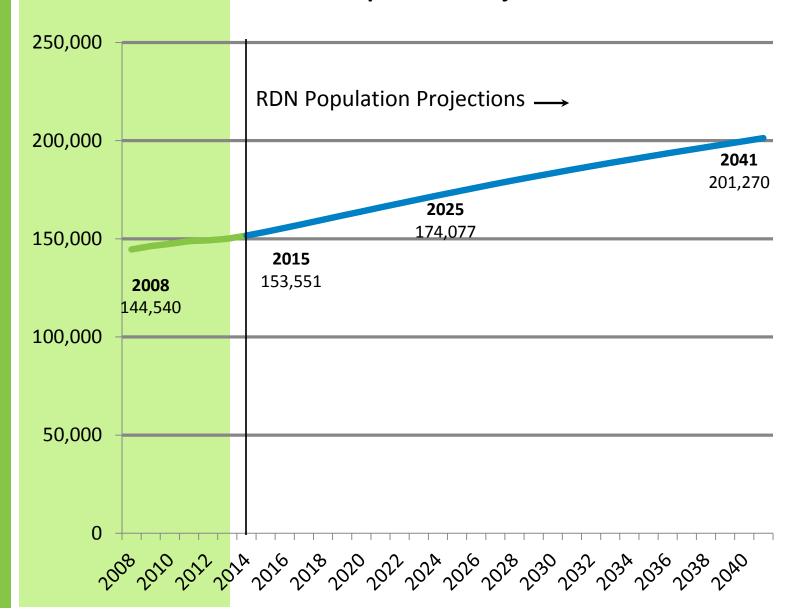






Population Growth

BC Statistics Population Projections for the RDN



Population Growth

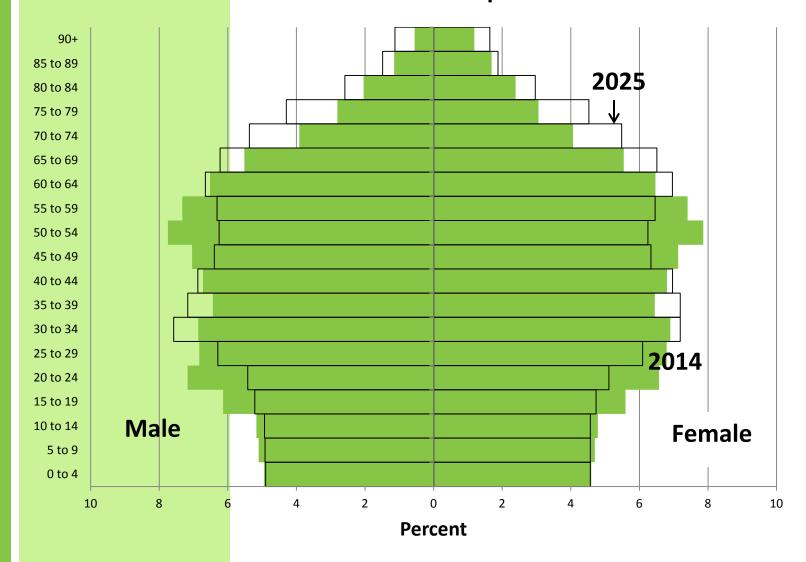
Population Growth Rates for BC and the RDN



Population Gr	owth Rates	2008-2014	2015-2025	2026-2041
BC		6.42%	13.08%	14.29%
RDN		4.94%	13.37%	14.34%

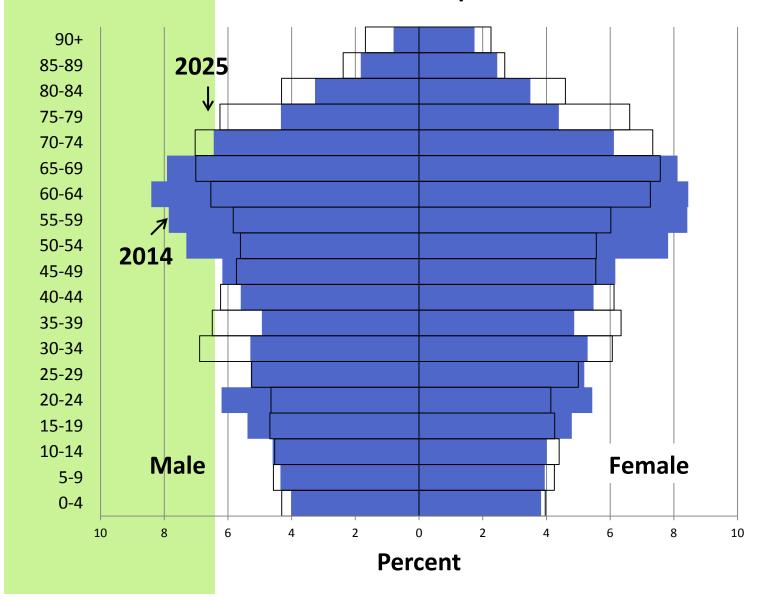
Population Profile

2014 and 2025 BC Population Profile



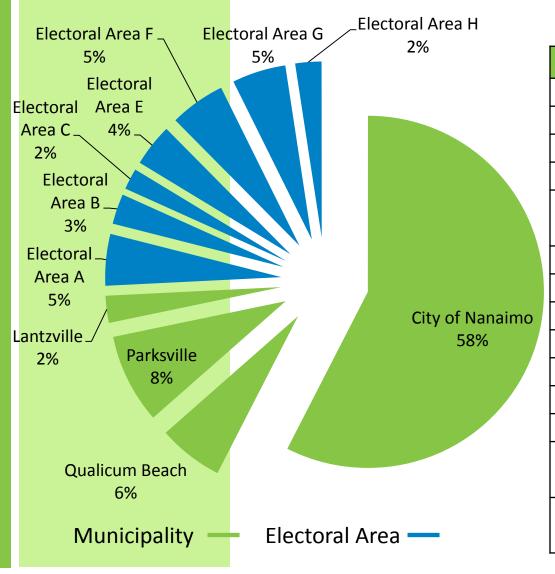
Population Profile

2014 and 2025 RDN Population Profile



Urban / Rural

Urban – Rural Population Distribution



Area	2011
City of Nanaimo	83,810
Qualicum Beach	8,687
Parksville	11,977
Lantzville	3,601
Total Municipal	108,075
Population	100,075
Electoral Area A	6,908
Electoral Area B	4,045
Electoral Area C	2,834
Electoral Area E	5,674
Electoral Area F	7,422
Electoral Area G	7,158
Electoral Area H	3,509
Total Electoral Area	27 550
Population	37,550
Total RDN Population	146,574







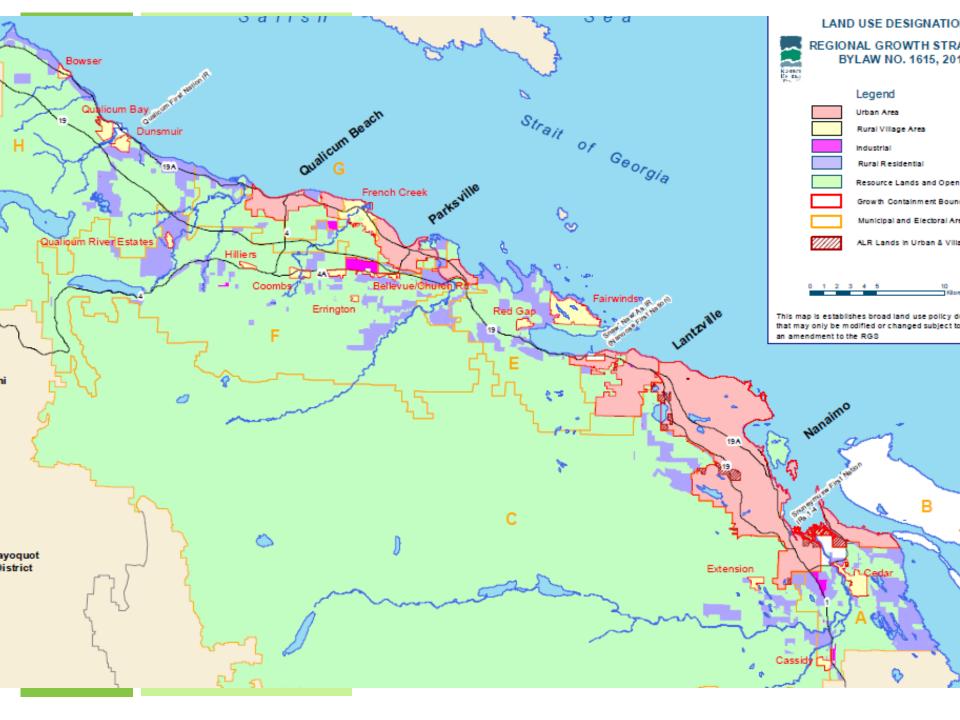
Where is Future Growth Supposed to Go?

Regional Growth Strategy

- Designated Growth Areas
- Concentrate Housing & Jobs in Urban Growth & Rural Village Centres

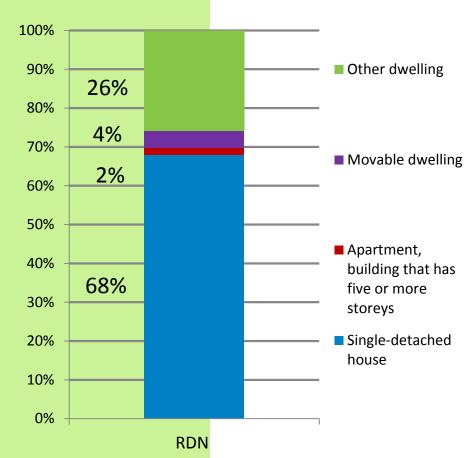
Official Community Plans

 provide direction for higher density forms of development in the designated growth areas





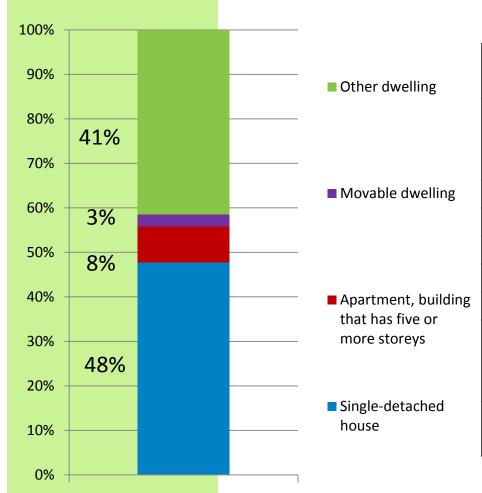
Housing Diversity in the RDN (2011 Census)



Single-detached house	43,820
Apartment, building that has five or more storeys	1,165
Movable dwelling	2,780
Other dwelling	16,695
Semi-detached house	2,670
Row house	2,635
Apartment, duplex	3,275
Apartment, building that has fewer than five stories	7,965
Other single-attached house	150



Housing Diversity in BC (2011 Census)



BC

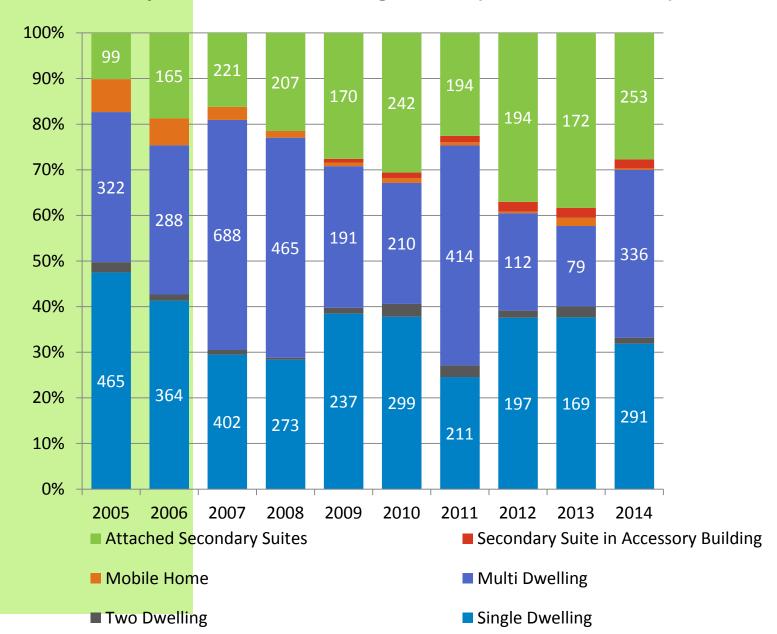
Single-detached house	842,120
Apartment, building that has five or more storeys	143,970
Movable dwelling	46,960
Other dwelling	731,585
Semi-detached house	52,825
Row house	52,825
Apartment, duplex	130,365
Apartment, building that has fewer than five storeys	361,150
Other single-attached house	2,885

Housing



4

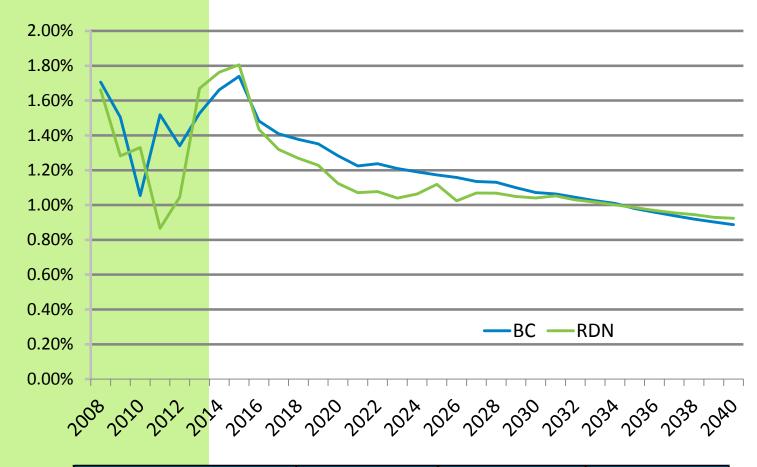
City of Nanaimo Building Permit (Number of Units)







Household Growth Rates for BC and the RDN



Household (Growth	2014	2025	2041
ВС		1,884,831	2,191,205	2,582,006
RDN		67,829	78,099	91,739





Population is aging and expected to continue aging



Population is becoming more concentrated in the municipalities – especially Nanaimo



Household size is becoming smaller and housing stock is more diversified



Thank You

Reference Slides

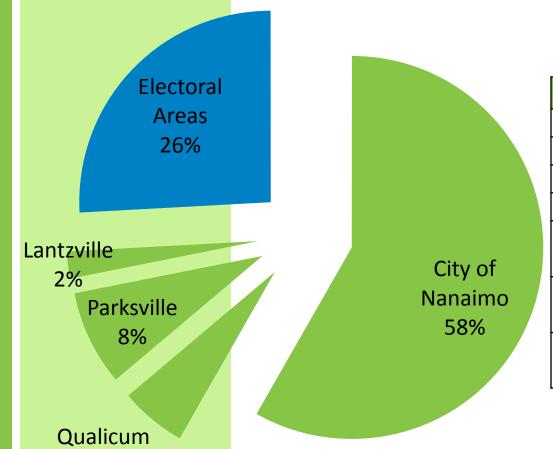
Urban / Rural

Beach

6%

Municipality

Urban – Rural Population Distribution (2014 Estimate)



Electoral Area

Area	2014		
City of Nanaimo	88,869		
Qualicum Beach	8,500		
Parksville	12,227		
Lantzville	3,496		
Total Municipal	113,092		
Population			
Total Electoral Area	ctoral Area		
Population	39,426		
Total RDN Population	152,518		

Population Growth 2011 - 2014

Name	2011	2012	2013	2014	=	2011-12 Changes	2012-13 Changes	2013-14 Changes
Nanaimo	148,770	149,621	150,806	152,518		0.6%	0.8%	1.1%
Lantzville	3,624	3,659	3,505	3,496		1.0%	-4.2%	-0.3%
Nanaimo	85,786	86,301	87,522	88,869		0.6%	1.4%	1.5%
Parksville	12,002	12,028	12,153	12,227		0.2%	1.0%	0.6%
Qualicum Beach	8,663	8,590	8,541	8,500		-0.8%	-0.6%	-0.5%
Unincorporated Areas	38,695	39,043	39,085	39,426		0.9%	0.1%	0.9%

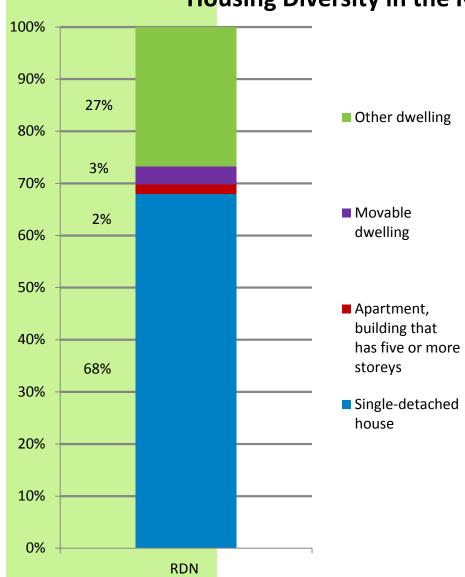
Source: BC Stats

Population Growth 2014 - 2041

Regional District	Year	Gender	Total
Nanaimo	2014	T	151687
Nanaimo	2015	Т	153551
Nanaimo	2016	T	155540
Nanaimo	2017	T	157629
Nanaimo	2018	T	159730
Nanaimo	2019	T	161831
Nanaimo	2020	T	163922
Nanaimo	2021	T	165996
Nanaimo	2022	T	168049
Nanaimo	2023	T	170087
Nanaimo	2024	T	172094
Nanaimo	2025	T	174077
Nanaimo	2026	T	176028
Nanaimo	2027	T	177946
Nanaimo	2028	T	179825
Nanaimo	2029	T	181662
Nanaimo	2030	T	183462
Nanaimo	2031	T	185222
Nanaimo	2032	T	186947
Nanaimo	2033	T	188635
Nanaimo	2034	T	190291
Nanaimo	2035	Т	191921
Nanaimo	2036	T	193516
Nanaimo	2037	T	195091
Nanaimo	2038	T	196653
Nanaimo	2039	T	198203
Nanaimo	2040	T	199737
Nanaimo	2041	Т	201270



Housing Diversity in the RDN (2006 Census)



Single-detached house	40,720
Apartment, building that has five or more storeys	1,050
Movable dwelling	2,075
Other dwelling	16,020
Semi-detached	2,260
Row house	2,405
Apartment, duplex	3,230
Apartment, building that has fewer than five storeys	7,960
Other single- attached house	165



Regional Growth Strategy

Increasing Detail



RGS



OCP's &

Village Plans ge Centre Plan

Official Co

Zoning

Bylaw No. 500

Regional Level guides direction & location of growth in the region

Community Level

Sets community priorities & works towards RGS Goals

Site Level

Regulates specific land uses, densities, setbacks





Consultation & Communications Plan

Solid Waste Management Plan Review:

Regional District of Nanaimo

January 26, 2015

Background

The Regional District of Nanaimo (RDN) is undertaking a review of its Solid Waste Management Plan (SWMP), which has been amended three times since provincial approval of the original Plan in 1988. The RDN has fully implemented their last SWMP, which was prepared in 2004. The current plan review is intended to identify "what's next" and chart the course for solid waste management for the coming years.

The process to review and update the region's SWMP is as follows:

- Stage 1 (completed report in 2013) Review and analysis of current solid waste management system, action status of the 2005 Plan, and identification of issues and opportunities for improvement;
- Stage 2 (current stage) Identify and review options to address the region's future waste management requirements, select preferred options and prepared report presenting the findings; and
- Stage 3 Prepare a draft amended SWMP, carry out a public review of the draft plan, incorporate changes from the public review and finalize the plan for Regional Board and Ministerial approval.

Community consultation is a mandatory component of the planning process and is critical to the creation of a plan that can be supported by the public. Consultation is carried out throughout the process and commonly begins with dissemination of information to more active dialogue with the community in Stages 2 and 3 as options are reviewed and selected.

Spectrum of Consultation



The Ministry of the Environment outlines the expected components of a community consultation process in their document *Guide to the Preparation of Regional Solid Waste Management Plans by Regional Districts.* In addition, the RDN has a public consultation / communication framework to ensure a consistent, comprehensive and cost-effective approach to public consultation and communication

initiatives. This framework, along with the Ministry's guide, was used to prepare the following Consultation & Communications Plan.

Objectives

A Consultation & Communications and Plan is intended to achieve the following objectives:

- Ensure that the process to develop the plan is collaborative and reflects a broad range of perspectives
- ii. Provide opportunities to educate the public about the Solid Waste Management Plan and future options for managing waste
- iii. Provide opportunities for public input on a range of options and estimated costs
- iv. Increase support for the resultant solid waste management planning and programs
- v. Meet the consultation expectations of the Ministry of the Environment.

Participants

There are several groups that may be directly and indirectly affected by the outcomes of the SWMP process. It is critical to the success of the SWMP that affected stakeholders are participants in the planning process. The following is a list of potential stakeholders:

- RDN staff
- Regional Board
- Municipal staff
- Municipal councils
- First Nations
- Ministry of Environment
- Residents throughout the region
- Businesses
- Construction and demolition industry
- Major institutions (Nanaimo General Hospital, School District 68 and 69, Vancouver Island University)
- Waste haulers
- Waste management facility owners and operators
- Neighbouring regional districts (Cowichan Valley, Alberni Valley, Comox Valley).

Consultation and Communications Plan

The RDN's framework has adopted 3 components to the plan: Participation, Engagement, and Communications. The activities associated with these three components, described in the following sections, have been employed by a number of regional districts to ensure their planning process meets the objectives listed above.

Participation

Participation refers to activities that enable a two-way conversation between those tasked with developing the SWMP and affected stakeholders, including the public. These activities provide opportunities for collaboration. Participation tools include:

- The Regional Solid Waste Advisory Committee
- The Solid Waste Select Committee
- Stakeholder Workshops

The Regional Solid Waste Advisory Committee (RSWAC) is the cornerstone of the Consultation and Communications Plan and will be in place throughout the planning process. This committee is a combination of public advisory representatives and technical advisory representatives that meets regularly throughout the planning process. The RSWAC provides advice to the Regional District Board in regards to the content of the plan and associated consultation activities. Members of RSWAC include representatives of the general public, business, waste management industry, local governments and First Nations from across the region. Terms of reference for the RDN's RSWAC are provided in Appendix A. These terms of reference have been approved by the RDN Board and applied to the establishment of the current RSWAC.

The Solid Waste Select Committee is made up of directors of the Regional District Board and acts as a steering committee during the process of developing the SWMP. The committee forms a direct link between the RSWAC and the Board. They are able to provide direct feedback to the RSWAC to ensure that the outcomes of the planning process are politically supportable, and also ensure that the Board is aware of the direction that the planning process is taking.

Stakeholder workshops will be held throughout the planning process as the need for them is identified. Workshops are intended to create a dialogue on specific elements of the SWMP, including generating new ideas and perspectives on issues, as well as deepening the collective understanding of those involved. The outcomes of the workshops will be used to supplement the discussions at the RSWAC meetings. Engagement or whatever word descriptor we used above

Engagement

Engagement refers to activities where the community is drawn into the conversation and input is sought from the public. The focus is on receiving information rather than providing it. For purposes of developing a solid waste management plan, engagement activities can be used to solicit input on the public's current perceptions of solid waste management as well as their feedback on options identified during the planning process.

Engagement activities will include a dedicated email address to receive email comments and inquiries, an on-line survey to identify residents' issues and concerns regarding solid waste management, and stakeholder meetings. Stakeholder meetings may be held to obtain input on options affecting a specific industry groups (e.g. construction/demolition/ renovation contractors, multi-family building managers, etc.). The broader public will be solicited for their feedback on the RDN's solid waste system.

Stage 3 involves a range of activities intended to obtain feedback on the draft plan's recommendations, including:

- Public open houses and meetings
- Exit survey at the public open houses and meetings
- On-line surveys for those unable to attend an open house or meeting
- Stakeholder meetings
- Presentations to Municipal and First Nation Councils.

The variety and breadth of engagement activities selected should be reflective of the type and range of actions proposed in the SWMP and how best to involve the affected stakeholders. Consequently, the specific tools to be employed during the Stage 3 consultation process are best identified once Stage 2 is completed or nearing completion.

Communications

Communications refers to providing information to the public and is generally one-way communication. Communication activities during the planning process will include:

- SWMP Updates for Councils
- A SWMP webpage on the Regional District website
- Newsletters
- Information display
- Promotion (e.g. newspaper and radio ads, posters, Facebook, Twitter)

Regular communications with municipal and First Nation councils are intended to keep these organizations informed on the development of the plan. The format for these communications will be through circulation of RSWAC meeting minutes to the member municipalities and First Nations as well as through regular RDN Solid Waste Newsletters

The RDN's website will be used to make SWMP resources available to the public and other interested parties on an on-going basis. A dedicated solid waste management plan web page has been developed and will include:

- Reports and memoranda prepared by the consultants (e.g. Stage 1 report)
- Advisory committee minutes and presentations
- A "tell us what you think" link to a dedicated email address
- A link to sign up for regular SWMP updates
- Information on consultation events and other opportunities for input

At any point during the planning process, information can be distributed to update residents of the key issues under discussion, as well as opportunities and ongoing encouragement for them to participate in available consultation activities. Often this information can be part of a regular regional communication, such as the RDN's Regional Perspectives or Zero Waste Newsletter. A Stage 3 newsletter can be used to provide information on the key recommendations in the draft SWMP and how residents and businesses can provide their feedback.

A mobile information display is being developed for use in malls, regional disposal facilities, community centres and at community events. Similar to the newsletter, the display will feature information on the key recommendations in the draft SWMP and how to provide input.

During the Stage 3 Consultation process, promotion is used to inform the public and affected stakeholders about the draft plan and the opportunities available to them for providing input. It is important to use a variety of tools to increase awareness and encourage people to attend or provide feedback via the website. Possible promotional tools include:

- Campaign slogan or brand to use on all materials to increase recognition and awareness
- Posters in public areas (city halls, rec centres, senior centres, other facilities) to promote open houses and other events
- Distribute hard copies of newsletter / poster to key locations
- Email distribution to key contacts (local governments, neighbourhood groups, associations, Chamber of Commerce, etc.) including information for their websites and newsletters
- Significant draw prize to increase participation (in surveys, at open houses)
- Newspaper advertising
- Radio advertising
- Media releases to all media (TV, Radio, Newspaper, Shaw, etc) and follow up to increase interviews and media coverage
- Public service announcements
- Website copy, including link to online survey and display panels and presentation materials Include offer to sign up for email project updates
- Facebook updates
- Twitter updates
- Promote at special events and community gatherings
- Promote via presentations to community groups and service clubs
- Signage at all solid waste facilities
- Inserts and/or notification via Regional Districts' and member municipalities' mailers (if available during the consultation process)
- Signage on-site at events.

The extent that the above tools are used will be based on the content of the draft plan and the appropriate level of promotion and consultation required.

A Consultation and Communications Plan for the RDN's SWMP

A presentation on SWMP communications and consultation was provided to RSWAC at their meeting on December 11, 2014. Based on feedback from the committee, a consultation plan for the RDN's SWMP has been prepared. The following table provides an overview of the proposed communication and consultation activities planned for each stage of the process to develop the SWMP. As noted above, the breadth of the Stage 3 consultation and communication activities will be defined once the content of the draft plan is known; a list of *potential* Stage 3 activities is provided below.

STAGE	PARTICIPATION	CONSULTATION	COMMUNICATIONS
Stage 1	 Establish Regional Solid Waste Advisory (RSWAC) and Steering Committee RSWAC Meetings Steering Committee Meetings 	 Establish protocol for tracking email and telephone input Public workshop on waste management issues and solutions 	 Establish SWMP webpage on RDN website Technical memos

			 Notices of consultation events Establish on-line signup for email updates Send out press release Article in RDN newsletter
Stage 2	 Regional Solid Waste Advisory Committee meetings Steering Committee meetings Stakeholder workshops 	 Track email and telephone input Survey Stakeholder meetings 	 Website updates Newsletter Local government update for Municipal and First Nation councils Send out email update to distribution list Presentations to interested organizations (as requested)
Stage 3 (potential consultation and communication activities)	 Regional Solid Waste Advisory Committee meetings Steering Committee meetings 	 Open Houses Public Meetings Presentations to Municipal and First Nation Councils Meeting(s) with neighbouring regional districts Stakeholder meetings Presentations to community groups and other interested organizations Exit surveys (at open houses and public meetings) On-line Survey (website link to survey) Receive and track email and telephone input 	 Website updates Newsletter, including Key components of draft plan Opportunities for input Offer of presentations to interested groups Newspaper advertising of consultation opportunities Media releases Media interviews Local government update Facebook and Twitter postings FAQs (available on website and in hard copy) Notifications in local government publications Notifications on municipal websites

(with link to SWMP webpage)

- Updates to email distribution list
- Public service announcements
- Information display (for use in recreation centres, libraries and other public venues)

Summarizing Input

Upon completion of the Stage 3 consultation activities, all of the input received from the public and affected stakeholders will be collated and summarized so that it can be reported to the RSWAC. The input can be reviewed by RSWAC with the intention of determining if modifications to the SWMP should be recommended to the Board.

Once the SWMP document meets with the Board's approval, the Plan will need to be submitted to the Minister of Environment for approval, along with:

- i. Written commitments from municipalities and First Nations that are tasked to undertake measures identified in the SWMP
- ii. A report on the Public Review and Consultation Process.

The Public Review and Consultation Process Report should include:

- A description of all consultation activities undertaken during the course of the planning process, including:
 - o RSWAC meetings
 - Steering Committee meetings
 - Workshops
 - o Website
 - Stakeholder outreach, including meetings
 - Presentations to community groups
 - Newsletters
 - Media releases
 - Community displays
 - Advertising
 - Social media
- Copies of newsletters, advertising, press releases and other tools used to communicate with the general public and affected stakeholders
- A description of First Nation engagement activities
- The RSWAC terms of reference and a list of RSWAC members
- Minutes of RSWAC and Solid Waste Subcommittee meetings.

Appendix A

Regional Solid Waste Advisory Committee
Terms of Reference

RDN – REGIONAL SOLID WASTE ADVISORY COMMITTEE (RSWAC) SOLID WASTE MANAGEMENT PLAN TERMS OF REFERENCE

1. BACKGROUND AND NEED

The Regional District of Nanaimo is undertaking a review of the Solid Waste Management Plan. Public and agency consultation representative of the diversity of the community is integral to the review. In accordance with the Ministry of Environment's *Guide to the Preparation of Regional Solid Waste Management Plans* a single public and technical advisory committee will act as a "sounding board" of community interests and will provide advice to the Regional Board through the Solid Waste Management Select Committee.

2. ROLES AND RESPONSIBILITIES

The role of the RSWAC is to:

- Represent a balance of community interests;
- Act as advisory committee to the Solid Waste Management Select Committee on the development of the Solid Waste Management Plan;
- Review guiding principles and provide feedback for the Plan;
- Review information provided by the RDN and its consultants and provide comments and suggestions as well as highlight information gaps to be considered for the Plan;
- Provide input on design and implementation of public surveys and consultation processes;
- Assist in reviewing current programs and identifying issues and opportunities (Stage2 & Stage 3 report);
- Assist in developing and evaluating a variety of options and strategies for the draft Plan (Stage2 report):
- Participate in public consultation, as required (for example, attendance at Open Houses);
- Review public consultation results and provide input on the final Plan;
- Participate in smaller ad-hoc committees dealing with specific issues or tasks, as required; and,
- Contribute to programs and policies that are in the best interests of all residents of the RDN, balancing both community and industry needs and technical requirements.

Recommendations of the RSWAC are directed to the Solid Waste Management Select Committee.

3. COMPOSITION AND CHAIR

Chair and Vice Chair to be appointed by the Chairperson of the Board.

Voting Members:

- One representative from the Select Committee (or alternate);
- Up to 15 members representing a diversity of community interests such as from the following groups:
 - Private sector waste management industry service providers
 - Private sector solid waste facility representatives

- Non-profit group with an interest in solid waste management (e.g. reuse organization)
- Large institutional solid waste generator
- Business representatives, including one focused on the 3Rs
- Members at large for the community (community association, youth, senior)
- Regional Landfill Advisory Committee/Regional Landfill area representative
- Urban/rural geographic mix

Non-Voting Technical Advisors:

- O Up to 12 members representing agencies including:
 - Regional District Staff 3 members
 - Municipal Staff 4 members
 - First Nations 3 members
 - Provincial Agencies 1 member
 - Federal Agencies 1 member

4. RULES OF PROCEDURE

The Committee will act in accordance with the RDN Board Procedure Bylaw.

5. ADMINISTRATION

Administrative matters related to the RSWAC will be conducted by RDN staff acting through the Chair.

6. TERM

RSWAC will conclude its work when the Plan has been approved by the RDN Board. Members will be asked to commit for up to three years.

2015 Solid Waste Management Plan Review Issue Identification

The table below outlines the issues captured from the results of the findings in the Stage One Existing System Report as well as input from the following sources:

- Regional Solid Waste Advisory Committee (RSWAC) meeting September 2013;
- A solid waste haulers and recyclers roundtable meeting held in February 2014;
- A solid waste planning workshop held for RDN Board members in May 2014;
- A Zero Waste community day workshop held in October 2014; and,
- Two meetings of the RSWAC held in October and December 2014.

	CONTEXT & TOPIC AREA	ISSUES IDENTIFIED					
1.	Reduce/Reuse:	-How can we encourage waste reduction?					
	'Reduce & Reuse' are at the top of the waste management	-How to encourage behaviours that move "up the hierarchy" from					
	hierarchy, however these behaviours receive less promotion	recycling to reduction and reuse					
	that recycling and proper waste disposal.	-How to move towards Sustainable product design and					
		manufacturing					
		-Is the per capital waste generation rate increasing or decreasing?					
2.	Extended Product Responsibility (EPR):	-Lack of awareness and confusion with EPR/take back systems					
	EPR shifts the end-of-life management costs of consumer	(what to take where)					
	goods from local government taxpayers to procedures and	-Uncertainty regarding the implications of future EPR programs					
	consumers. In BC, the Recycling Regulation (BC Reg. 449/2004)						
	defines the products and packaging that are included in an EPR						
	program. Management of products is managed by stewardship						
	organizations who – in turn- organize collection services						
	throughout the province.						
3.	Curbside Collection Services:	-How to improve diversion and the use of existing curbside services					
	There is a diverse range of residential services that include 3	(yard waste, textiles, and glass and incontinence products, kitty					
	stream collection: garbage, recycling and food waste.	litter)					
		-Food waste participation in rural areas?					
		-Does the residential collection model need improvement?					
		-Does additional recovery of recyclables from the garbage Multi					
		Recovery Facilities (MRF's) have a role?					
4.	Multi Family Sector:	-How to improve the use of existing waste diversion services in					
	Multi Family Recycling is not part of the of either the City of	Multi Family buildings					

	Nanaimo or the RDN Curbside Program	-Not all diversion services are in place in MF buildings -Limited organics collection in MF buildings -How to make diversion services affordable to small businesses
5.	Industrial, Commercial & Industrial (ICI): Disposal bans are the main policy mechanism employed by the RDN to encourage recycling by the ICI sector.	-Need increased diversion of ICI waste this is supported by the 2012 Waste Composition Study
6.	Construction, Demolition and Renovation: Construction, demolition and renovation waste is composed of a wide variety of materials, including recyclable materials such as wood, cardboard, metal and drywall. There are several companies that provide recycling collection to this sector	-How to encourage more diversion of construction, demolition and renovation waste -WCB asbestos management requirements create a challenge to the recovery and recycling of gypsum and C&D waste -Acceptance of creosoted materials and the appropriate tipping fee -Conflicting strategies for management of wood waste -Diversion of asphalt shingles from landfill -Lack of data regarding C&D waste -Lack of clarity on Future C&D regulations under BC's Recycling Regulation -Uncertain outlook for the Wood Waste Market
7.	Resource Recovery/Zero Waste Policies: Recovering valuable resources from our waste streams is garnering significant attention as commodity prices fluctuate.	-When and how to implement Resource Recovery -Which resource recovery technology is best suited to the RDN's waste stream and size -How to manage hard to recycle items -Lack of high quality depot services in the City of Nanaimo
8.	Residual Waste Management: The RDN's air space is the most important asset. Options to increase capacity are optimization of diversion, operations and airspace. The current landfill life is until 2037. Issues that emerge need to be explored further in conjunction with a long range waste generation projections in the context of the future financial model. Below are the issues that have emerged.	-What are desirable options once the regional landfill is full? -What options aren't desirable? -Illegal Dumping -WSML Licensing scheme/ Flow control options -Managing future waste generation
9.	How does Waste to Energy (WTE) fit into the RDN's "Zero Waste Strategy"? Under what circumstances should WTE be	- If not located in RDN - If only servicing RDN

considered/not considered.	 If servicing Vancouver Island only Specific technologies? Large volumes typically required to make WTE financially attractive (competitive with landfilling) Zero Waste International Alliance definition of Zero Waste does not allow combustion of waste for energy purposes
10. Financing the Solid Waste System: A sustainable financial business model is essential for the provision of solid waste services. The majority of funding for the Solid Waste function is currently drawn from RDN tipping fees. Since 2014, expenses are exceeding revenues with the deficit being funded by increasing the Tax requisition. Current funding mechanism not able to adapt to change in market forces. The following three mechanisms for consideration: decrease in spending, adjust tipping fees, and taxation generated the following issues.	-How to pay for waste reduction initiatives -current method of funding the solid waste function through tipping fees is unsustainable -How to finance the RDN's solid waste management infrastructure -How to fund Nanaimo Recycling Exchange & Non-profits -Private waste export of MSW & how it destabilizes the RDN waste management system -Stable funding for non-profits -Lack of full cost recovery associated with provision of EPR Collection Services -Recycling markets limited market for post-consumer glass, and film plastic



TECHNICAL MEMORANDUM

TO: Larry Gardner DATE: February 16, 2015

Manager, Solid Waste Services

FROM: Meghan Larson FILE: 5365-00

Special Projects Assistant

SUBJECT: REGIONAL DISTRICT OF NANAIMO WASTE GENERATION PROJECTIONS

Issue: Forecasting future waste quantities is fundamental for planning waste management programs and services.

Background:

The Regional District of Nanaimo (RDN) is currently reviewing and updating the Solid Waste Management Plan. Ministry of Environment guidelines, for developing Solid Waste Management Plans, suggest a minimum of a 10 year planning horizon; therefore, forecasting waste generation until at least 2025 is fundamental in developing the Plan.

This *Technical Memorandum* first reviews forecasting of waste generation carried out by the province for the period between 2010 and 2015 and documented in the BCStats report *Solid Waste Generation in British Columbia, 2010-2025 Forecast, June 2012.* Secondly, the memorandum considers where the RDN currently fits in with the provincial model. And lastly, the memorandum discusses where the RDN might vary with respect to future forecasting.

Discussion:

1. Provincial Forecasting of Waste Generation

The BCStats report defined key sectors for waste generation and recycling/diversion as follows:

Residential - Residential waste is solid waste produced by all residences and includes waste that is picked up by the municipality (either using its own staff or through contracting firms), and waste from residential sources that is self-hauled to depots, transfer stations and disposal facilities.

Industrial, Commercial and Institutional - IC&I wastes include: industrial materials, which are generated by manufacturing, and primary and secondary industries, and are managed off-site from the manufacturing operation; commercial materials, which are generated by commercial operations, such as shopping centres, restaurants, offices and others; and institutional materials that are generated by institutional facilities, such as schools, hospitals, government facilities, seniors homes, universities, and others.

Construction, Renovation & Demolition - CR&D wastes refer to wastes generated by construction, renovation and demolition activities. It generally includes materials such as wood, drywall, certain metals, cardboard, doors, windows, wiring and others. It excludes materials from land clearing on areas not previously developed as well as materials that include asphalt, concrete, bricks and clean sand or gravel.

Local Government Recycling/Diversion - Local government recycling/diversion programs include material recycling, organics composting and other waste diversion programs offered by local governments. Recycling is the process whereby a material (for example, glass, metal, plastic, paper) is diverted from the waste stream and potentially remanufactured into a new product or used as a raw material substitute. Local government recycling/diversion figures do not include industry product stewardship, which is measured separately. For instance, it does not include materials picked up under stewardship programs such as materials picked up by local government under contract to Multi-Material BC (MMBC).

Industry Product Stewardship Recycling/Diversion - Industry product stewardship is another form of diversion of waste from landfills. It refers specifically to the collection of materials for reuse or recycling that may offer some sort of incentive for the consumer. Many manufacturers now provide programs to their consumers to recycle or safely dispose of their products. In some cases, consumers pay environmental fees to recover the costs of these programs, and deposits as incentives to participate in the return programs. This term most frequently refers to the return of materials such as beverage containers, tires, paints, batteries, pesticides and motor oil.

The report highlights three projection scenarios with varying degrees of measures taken to divert waste from disposal:

Scenario 1 - 2010 diversion and recycling programs continue as planned; plans for new industry product stewardship programs proceed as expected (e.g. Printed Paper and Packaging); and, enhanced construction, renovation and demolition (CR&D) waste programs do not materialize as quickly as expected.

Scenario 2 – Diversion and recycling programs increase collection rates; construction and demolition waste programs are implemented; and, organic material diversion programs expand significantly.

Scenario 3 – Diversion and recycling programs significantly increase collection rates; high performing construction demolition waste programs are implemented; and, organic material diversion programs expand dramatically.

Scenario 1 findings:

"Current and planned diversion and recycling programs continue as planned, but enhanced construction and demolition waste programs do not materialize as quickly as expected"

- Assumes maintenance of current programs plus the addition of new programs already identified for implementation (i.e. Packaging and Printed Paper).
- More waste will be generated and, although diversion will remain at 43%, the total amount of waste requiring disposal will increase by 17.5% over 15 years.
- Materials recycled by local government will decline by 16.4% as responsibility is transferred to
 industry stewards. (i.e. Packaging and Printed Paper; although that material is largely collected by
 local government through curbside programs, the responsibility rests with the industry steward).

Scenario 2 findings:

"Current and planned diversion and recycling programs increase collection rates, construction and demolition waste programs are implemented and organic material diversion programs expand significantly"

- Assumes a stewardship program for construction, renovation and demolition (CRD) waste and moderately stronger growth in collection from newer programs.
- Assumes greater diversion of organics by local government.
- Assumes a provincial diversion rate of 62% by 2025.
- Results in a projected decline in waste disposal by 21.8% between 2010 and 2025.
- States: "Given the trend toward increased recycling, stewardship and other practices, a scenario whereby waste diversion efforts experience moderate expansion appears to be a fairly realistic one."

Scenario 3 findings:

"Current and planned diversion and recycling programs increase collection rates, construction and demolition waste programs are implemented and organic material diversion programs expand significantly"

- Assumes significant advancement of all diversion strategies.
- Assumes the main driver for increased diversion over Scenario 2 is further advancement of organics programs by local government.
- Assumes a provincial diversion rate of 81% by 2025.
- Results in a projected decline in waste disposal by 61.6% between 2010 and 2025.
- "While this may seem a somewhat unlikely scenario, it is nonetheless worth examining as something for BC to strive for."

2. RDN Waste Generation in Relation to the Provincial Model

Applying the provincial model to local waste management practices, the RDN is considered to currently fall within the scope of Scenario 2. Scenario 2 is based on stewardship programs for CRD waste, organics diversion programs by local government and that a stewardship program for packaging and printed paper is in place. The following describes how RDN waste management practices are consistent with Scenario 2:

Construction, Renovation and Demolition (CRD) Waste Diversion by Local Government:

A 2004 waste composition study determined that after organics, CRD waste was the largest component of solid waste disposed of in the Regional Landfill. The RDN's Zero Waste Plan identified the need to divert the clean wood waste from construction demolition sites from the landfill.

In February 2007, the Regional Board approved a Construction/Demolition Waste Strategy. Key initiatives in the strategy included:

- Increasing the tipping fee for clean wood waste at RDN Solid Waste Facilities to create incentives to divert this material to licensed recycling facilities;
- A ban on disposal of clean wood waste in the Regional Landfill and roll-off containers of wood waste at RDN Solid Waste Facilities; and
- Arranging contracts with third party wood waste recycling facilities to manage wood waste received at the landfill and transfer station from small self-haulers.

Effective January 1, 2008, the RDN banned clean wood waste from disposal in the Regional Landfill and roll-off containers of wood waste at RDN Solid Waste Facilities. The initiatives of the RDN are believed to largely meet the diversion goals of what a provincially mandated CRD strategy might look like.

Organics Diversion by Local Government:

The RDN currently has a two-step approach to organics diversion; Commercial Food Waste Diversion and Green Bin Residential Food Waste Collection.

In June 2005, the RDN banned disposal of food and other organic waste from commercial and institutional sources at the region's solid waste facilities, putting the first phase of its organics diversion strategy into action.

The ban on commercial food waste in the Regional Landfill followed the opening of International Composting Corporation in Nanaimo, the first composting facility licensed under the RDN Waste Stream Management Licensing Bylaw.

Extensive consultation preceded the commercial food waste and organics disposal ban in 2005 with follow-up site visits to over 200 businesses and organizations. Landfill disposal of compostable organic waste from a commercial or institutional facility is not permitted under Bylaw 1531.

The expectation is for all commercial and institutional facilities such as restaurants, grocery stores, and school and hospital cafeterias to have food waste diversion systems in place. Commercial food waste

includes raw and cooked food and other compostable organic material from commercial and institutional premises.

The RDN has encouraged participation in the commercial food waste ban with little regulatory enforcement to date. The strategy has allowed affected businesses and organizations to comply using the most cost-effective and efficient methods for their operations. The second step, providing region-wide Green Bin residential food waste collection, was accomplished in October 2011. Again, the driver was the 2004 waste composition analysis which showed that food waste and compostable paper made up approximately 50 per cent of household garbage. The residential Green Bin Program enables households to help divert all food waste in the region from the landfill for processing into compost and potentially renewable fuels.

The green bin goes beyond what can be composted at home. Not just fruit and vegetable scraps but cooked food, meat, fish, bones, food soiled paper and paper packaging such as waxed fast food cups and milk cartons will be accepted in your green bin. Currently, the green bin program diverts an estimated 106kg per household of food waste from the Regional Landfill each year from the residential curbside collection program.

Packaging and Printed Paper Provincial Stewardship Program

The curbside collection programs operated by the RDN and the City of Nanaimo (City) are funded through user fees sent out on their utility bills, not through taxes. By partnering with MMBC in May 2014, the City and the RDN became Packaging and Printed Paper collectors on MMBC's behalf and receive appropriate financial incentives from MMBC. As a result, the recycling portion of annual user fees charged to single family residential households has been reduced. Prior to partnering with MMBC, the RDN and the City provided residential recycling collection to all single family residential homes in the region. So far, there has been no measurable difference in the amount of recyclable material collected through the curbside collection program before and after the partnership with MMBC.

Since 1991, the RDN has progressively banned materials from landfill disposal as local recycling and processing facilities became available.

In 2010, household plastic containers were added to recyclable paper, cardboard, and metal already banned from the landfill.

Thanks to the cooperation of waste haulers and the owners and management of multi-family dwellings, 86% of complexes in the region are now meeting the requirements of the ban on landfill disposal of household recyclable materials. All multi-family complexes should have a system in place to collect and recycle all household recyclables subject to the landfill disposal bans.

Currently, the RDN is at a diversion rate of 68% which is above the provincial diversion rate of 49% by 2014 for Scenario 2. However, the BCStats projections are based on a provincial average which includes many districts that have less mature and developed programs such as exist in the RDN. In other words, Scenario 2 is a composite of regions having both lower and higher diversion rates yielding a provincial average of 49%. However, in considering the description of programs of Scenario 2, they mirror almost exactly what exists in the RDN.

3. Future Waste Generation

The following section discusses future waste generation in the RDN relative to provincial Scenarios 2 and 3. The RDN is considered to currently fall within Scenario 2, so this is really a "status quo" future option. Scenario 3 anticipates significant advancements in diversion strategies particularly in regards to organics management. Such advancements do apply to the RDN.

Scenario 2

Under Scenario 2, it is projected that the RDN would see an increase (+6%) in the amount of waste disposed to landfill with yearly tonnages increasing from 47,138 metric tonnes in 2014 to 50,074 metric tonnes in 2025. This increase is largely due to an increase in population in the region and the assumption that waste diversion rates nominally increase.

Scenario 2												
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Population	152,445	153,985	155,540	157,095	158,666	160,253	161,856	165,996	167,656	169,333	171,026	172,736
Per capital waste disposal (kg)	309	300	290	290	290	290	290	290	290	290	290	290
Waste Disposal (m/t)	47,138	46,126	45,089	45,540	45,995	46,455	46,920	48,120	48,601	49,087	49,578	50,074
Total Recycled (m/t)	100,168	102,668	105,208	106,260	107,323	108,396	109,480	112,280	113,403	114,537	115,683	116,839
Total Generated (m/t)	147,306	148,794	150,297	151,800	153,318	154,851	156,400	160,400	162,004	163,625	165,261	166,913
Diversion Rate	68%	69%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%

Scenario 3

Under Scenario 3 it is projected that the RDN would see a decline (-33%) in the amount of waste disposal to landfill with yearly tonnages decreasing from 47,138 metric tonnes in 2014 to 31,714 metric tonnes in 2025. This Scenario assumes provincially recycling/diversion rates increase dramatically_including both government recycling/diversion as well as industry product stewardship recycling/diversion causing the volume of waste disposed of in landfills to shrink drastically. For the RDN specifically, reductions would be realized through improvements to the organics diversion programs with only a modest increase from provincial stewardship programs. This is because current RDN policies are believed to largely achieve the same results of a provincial CRD stewardship program.

Scenario 3 Projections												
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Population	152,445	153,985	155,540	157,095	158,666	160,253	161,856	165,996	167,656	169,333	171,026	172,736
Per capita Waste generation (kg)	348	350	290	271	261	251	242	232	222	213	203	184
Waste Disposal (m/t)	47,138	46,126	45,089	42,504	41,396	40,261	39,100	38,496	37,261	35,997	34,705	31,714
Total Recycled (m/t)	100,168	102,668	105,208	109,296	111,922	114,590	117,300	121,904	124,743	127,627	130,556	135,200
Total Generated (m/t)	147,306	148,794	150,297	151,800	153,318	154,851	156,400	160,400	162,004	163,625	165,261	166,913
Diversion Rate	68%	69%	70%	72%	73%	74%	75%	76%	77%	78%	79%	81%

Data Limitations

It is important to keep in mind that these are projections only and there are a number of factors that can change these projected outcomes as well as influence the type of service that might be provided:

- Regional Growth aging population, increased densification in some areas
- Industry Product Stewardship programs rate of successful diversion
- Waste Export where is the waste in our region being disposed of
- Consumerism Are individual buying habits staying the same or are individuals buying more or less

All of these factors will play a role in how much waste is actually produced in the future.

Conclusion:

Applying the Provincial model for waste generation suggests the following:

- Under a status quo scenario of 70% diversion over the next 10 years forecasts a per capita waste disposal of 290kg with at total amount of residuals of 50,074 metric tonnes annually by 2025
- Under the Province's most optimistic forecast of 81% diversion over the next 10 years forecasts a per capita waste disposal of 184kg with a total amount of residuals of 31,714 metric tonnes annually by 2025

The Province states in reference to an 81% diversion that "While this may seem a somewhat unlikely scenario, it is nonetheless worth examining as something for BC to strive for. It is important to note that this level of diversion is based on a Provincial average with different areas having high and lower diversion. Although the report is not explicit that all areas of the province would have to have high levels of diversion to reach this target, it definitely implies such.

Nevertheless, given that the RDN has a mature waste management system and currently has all of the elements to promote further levels of diversion, 81% diversion appears to be achievable in the context of the provincial forecast.