



NORTH COAST
REGIONAL DISTRICT

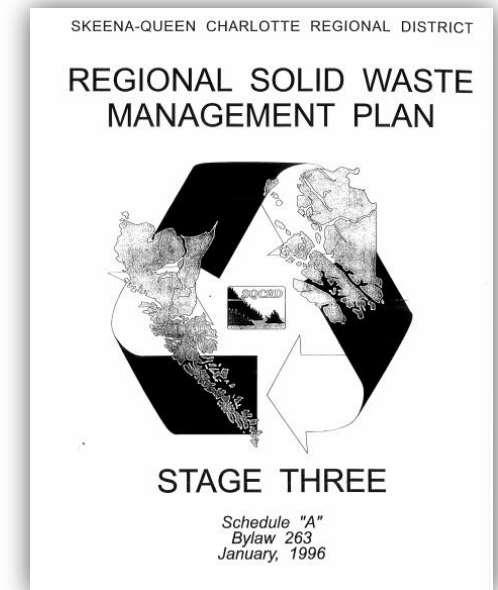
**DEVELOPING A NEW
SOLID WASTE
MANAGEMENT PLAN
FOR THE NCRD**



WHY ARE WE MEETING?



- A Solid Waste Management Plan (SWMP) provides long-term direction for the regional management of solid waste and is required by the BC Ministry of Environment & Climate Change Strategy
- A number of the objectives of the 1996 SWMP have been met or are no longer relevant today
- The new SWMP will supersede the 1996 SWMP when it is approved by the Ministry of Environment & Climate Change Strategy and adopted by the NCRD Board
- The Public and Technical Advisory Committee (PTAC) will provide opportunity for all regional stakeholders to advise on the development of the SWMP





1. Introductions
2. A look back at the 1996 SWMP
3. Review of the draft approach to developing a new SWMP
4. Public and Technical Advisory Committee
5. Next steps





INTRODUCTIONS

IF YOU COULD MEET ANY ONE PERSON IN HISTORY, DEAD OR
ALIVE, WHO WOULD THAT BE AND WHY?



THE 1996 SWMP

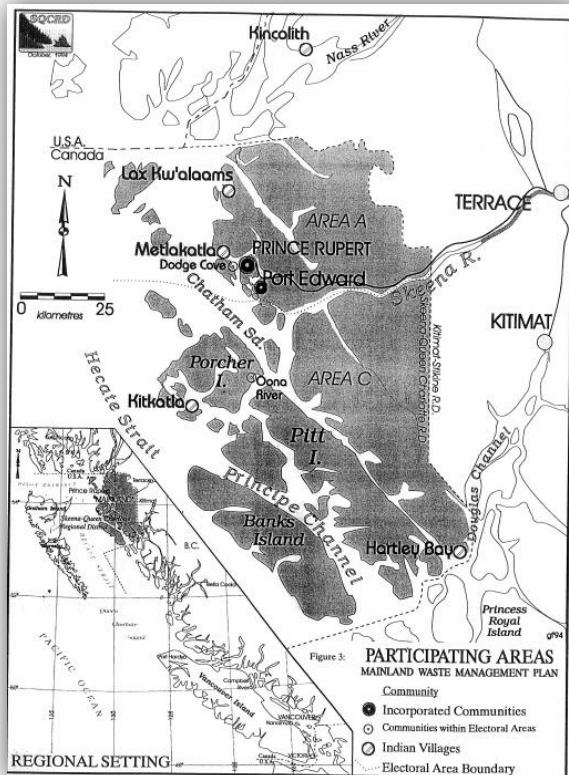
A LOOK BACK

WHAT WAS PLANNED AND WHAT WAS DONE?



- The 1996 SWMP established waste management plans with accompanying objectives and goals for two distinct geographical areas of the NCRD:

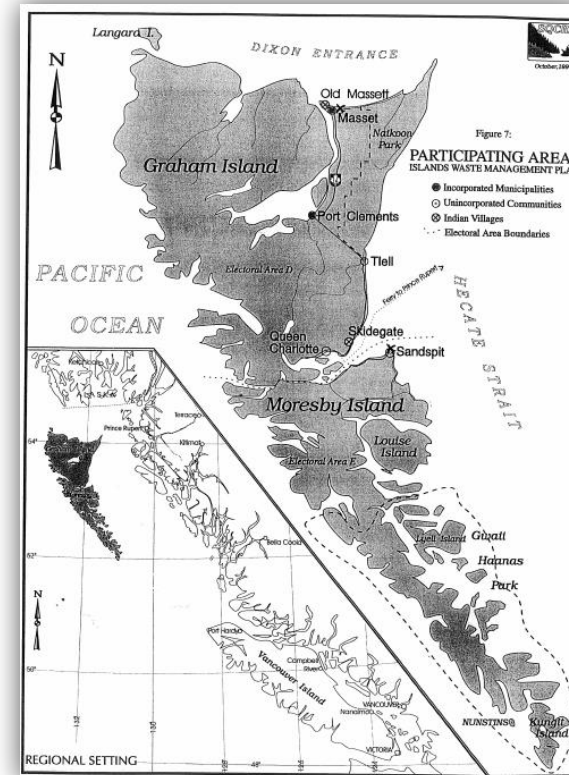
Mainland



Participants

- Prince Rupert
- Port Edward
- Area A
- Area C

Haida Gwaii



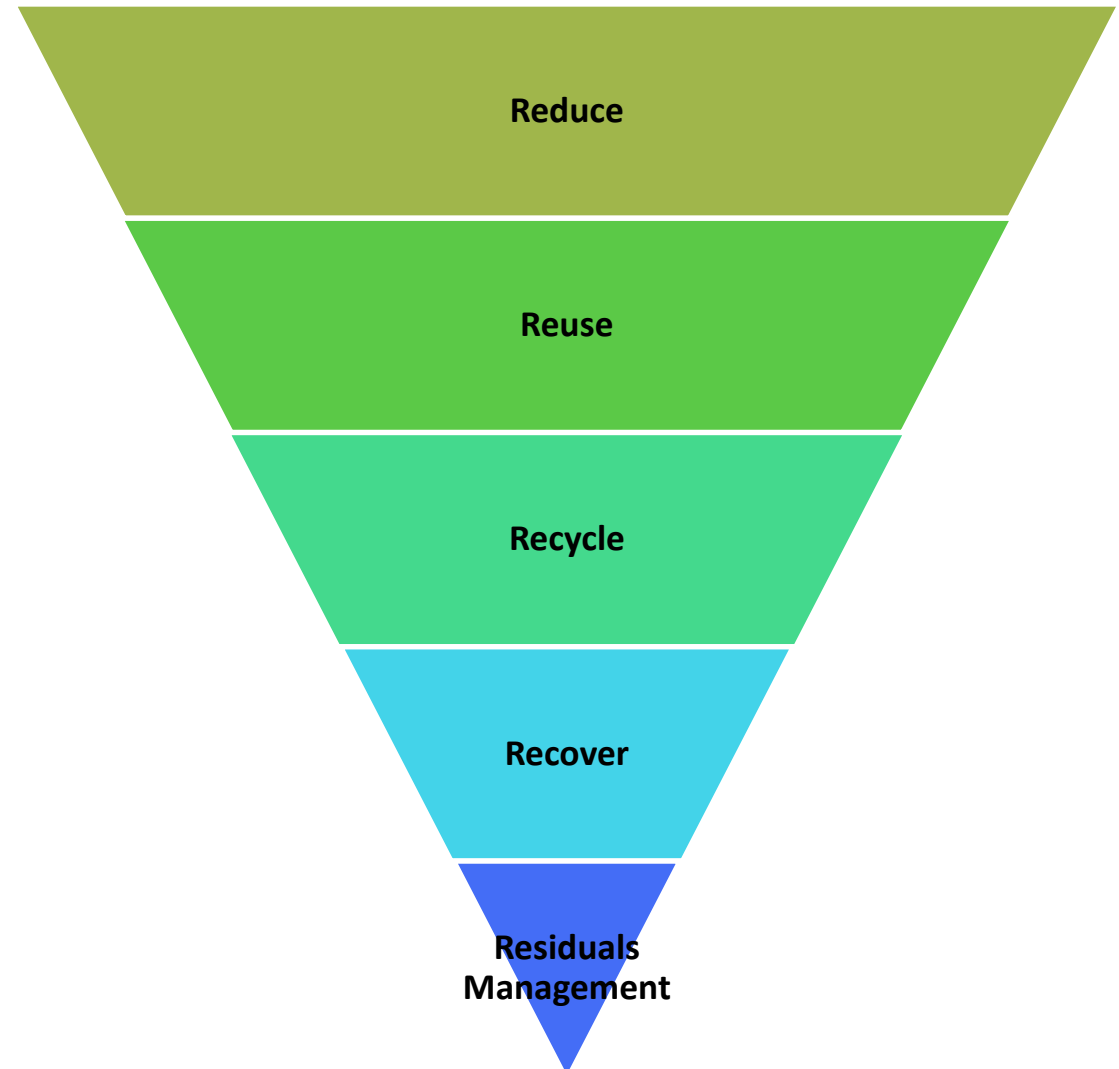
Participants

- Queen Charlotte
- Masset
- Port Clements
- Area D
- Area E

WHAT WAS PLANNED AND WHAT WAS DONE?



- The first SWMP was adopted in 1996
- Required by the Province
- Provides direction for various aspects of solid waste management (infrastructure, collection services, waste reduction education, financing, etc.)
- Recommendations for each aspect of solid waste management were identified, organized according to the waste management hierarchy
- The 1996 SWMP is still in effect, but it's time for a new plan



WHAT WAS PLANNED AND WHAT WAS DONE?



Mainland Administrative Objectives & Policies

1. Coordinate policies of plan with municipal and other local groups
- Establish a local service area
- Establish a waste management committee
- Invitation to First Nations to participate in committee

Islands Administrative Objectives & Policies

1. All islands residents have a personal and collective responsibility for their own solid waste
- Establish a local service area
- Establish service agreements with participating First Nations
- Establish a waste management committee
- Administer and enter into agreements as needed

All undertaken; complete and some ongoing

WHAT WAS PLANNED AND WHAT WAS DONE?



Mainland Reduction Objectives & Policies

1. Establish economic and regulatory incentives to encourage waste reduction
 - Establish bag limits for garbage disposal
 - Establish tag fees for extra bags
 - Encourage municipal partners to use tag fees that will encourage waste reduction
 - Establish landfill tipping fees
2. Discourage landfilling materials that could be utilized elsewhere
 - Collect fees for tires, white goods and other problem wastes
 - Periodically review list of special wastes
 - Establish material bans and surcharges

Islands Reduction Objectives & Policies

1. Establish economic and regulatory incentives to encourage waste reduction
 - Establish a recycling reserve fund
 - Establish bag limits for garbage disposal
 - Establish landfill tipping fees
 - Establish tag fees for extra bags
 - Relief from fees during organized cleanups
 - Tag fees redirected toward recycling reserve
2. Discourage landfilling materials that could be utilized elsewhere
 - Establish fees for tires, auto hulks, white goods and other problem wastes
 - Periodically review list of special wastes
 - Establish material bans and surcharges

All undertaken; most complete and some ongoing



Mainland Education & Composting Objectives & Policies

1. Provide information to the public and users of the system that will encourage solid waste reduction, reuse and recycling and proper handling of solid waste
 - Contract a mainland waste reduction coordinator
 - Apply to BC Environment for funds to assist in providing education
2. Encourage composting as a method for waste reduction
 - Encourage and subsidize backyard composting
 - Cooperate with other jurisdictions to make composting cost effective

Islands Education & Composting Objectives & Policies

1. Provide information to the public and users of the system that will encourage solid waste reduction, reuse and recycling and proper handling of solid waste
 - Organize regular solid waste and recycling waste reduction programs
 - Apply to BC Environment for funds to assist in providing education
2. Encourage composting as a method for waste reduction
 - Encourage and subsidize backyard composting

Some undertaken; some complete and some ongoing



Mainland Recycling Objectives & Policies

1. Support recycling as a viable method to reduce solid waste

- Establish compulsory participation in recycling service for mainland participants
- Provide recycling services to mainland residents
- Establish additional services that facilitate recycling or reuse
- Establish a recycling facility
- Hire staff to provide recycling services
- Review and manage performance of recycling services
- Establish a recycling capital reserve fund

- Consider programming for problem waste recycling

2. Facilitate the recycling of hard to handle wastes

- Designate and train a problem waste coordinator
- Purchase a autohulk compactor for white goods recycling
- Request the CoPR grant exclusive salvage rights to a contractor to recycle any additional materials deposited in the landfill

Most undertaken; some complete and some ongoing

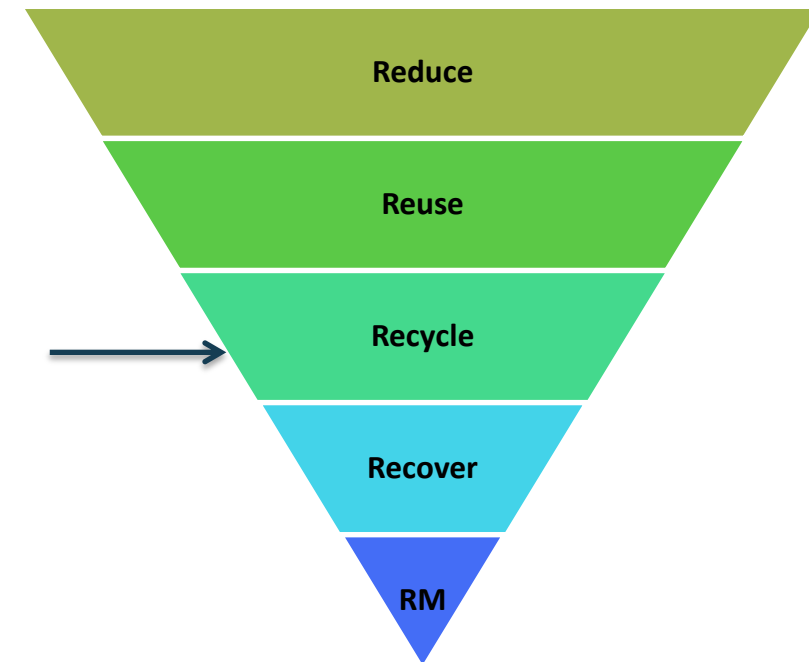


Islands Recycling Objectives & Policies

1. Support recycling of problem wastes and encourage recycling of other materials

- Pay for the handling and shipping of problem recyclable materials
- Facilitate the proper disposal of problem wastes
- Encourage recycling by providing information on nearest available recycling facilities and by providing grants to recycling groups
- Consider allocating capital funds toward the cost of recycling facilities
- Review and maintain public subsidies available for recycling programs

- Operate recycling facilities in specified areas at the landfill and at transfer stations
- Grant exclusive salvage rights to recycle any additional materials deposited at the landfill or transfer stations



Most undertaken; some complete and some ongoing



Mainland Landfills Objectives & Policies

1. Encourage all landfill operators to adopt landfill practices that will extend the life and reduce the operating costs of their landfills
- Local authorities to continue to operate landfill sites and other waste disposal facilities in accordance with BC law
- Consider using geotextile tarps as an alternative to fill for use to meet daily cover requirements
- Provide areas at landfill facilities for temporary storage of recyclables
- Provide space at landfill for an autohulk compactor
- Encourage the City to purchase a tub grinder that could process wood waste and demolition

waste to be suitable for cover material

- Investigate possibility of utilizing a tub grinder for processing tires
- 2. Ensure landfills or portions of landfills are closed using methods that will minimize environmental impacts
- Pay for initial capital costs of the landfill by applying a portion of tipping fees according to capacity requirements and establish closure reserve
- Fund annual operating costs by user fees
- Apply a portion of the tipping fees to pay for expected closure costs according to capacity requirements
- Consider a transfer of the waste management operation permit for the landfill to the NCRD



Islands Landfills Objectives & Policies

1. **Develop & operate a landfill site near Port Clements servicing all islands communities that will meet BC laws in a cost effective manner**
 - Develop & operate a landfill site
 - Tender the construction and the operation of the landfill to private contractors
 - Purchase the existing Port Clements landfill from the Village of Port Clements
 - Establish environmental contracts to measure water quality, stream flow and ground water
 - Review the data from the EM program and adjust accordingly
2. **Close existing landfill sites to prevent further adverse environmental impacts**
 - Close existing landfill sites in accordance with BC laws
 - Negotiate transfer of properties and permits from existing sites with stakeholders
3. **Provide a fair method to finance the capital and operating costs of the landfill over its entire life cycle**
 - Fund initial capital costs of the landfill and for a capital reserve fund to pay for landfill closure
 - Fund annual operating costs through user fees
 - Annually review user fees
 - Review annual level of funding for landfill closure every 5 years

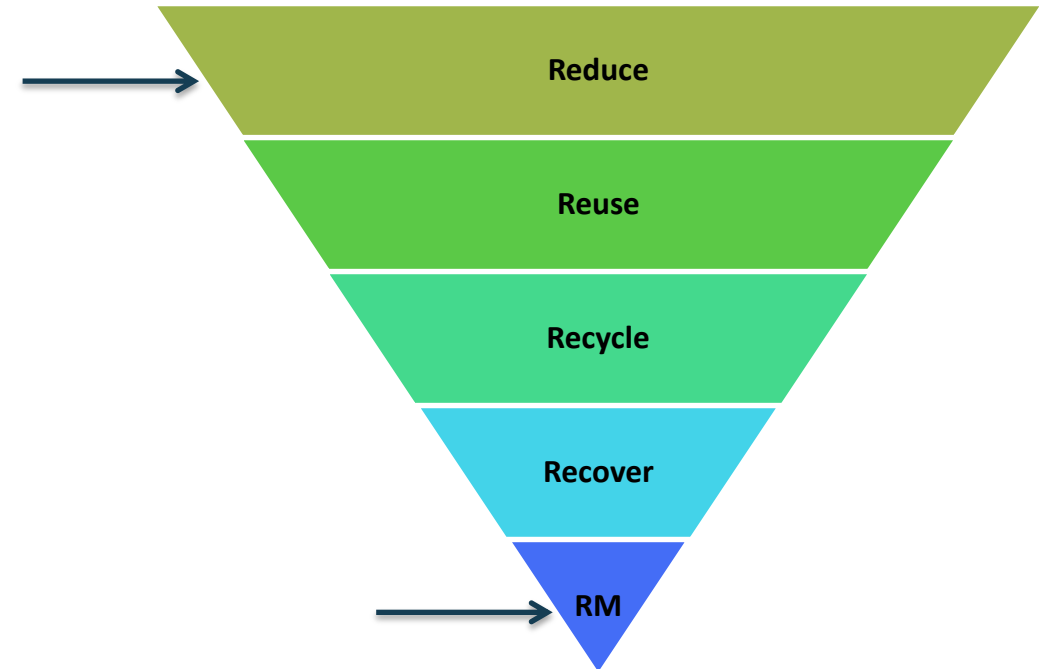
All undertaken; most complete and some ongoing

WHAT WAS PLANNED AND WHAT WAS DONE?



Mainland Collection Service Objectives & Policies

1. Ensure that residents of Prince Rupert and Port Edward continue to be served by a regular garbage collection service
 - Establish similar standards for collection service in Prince Rupert and Port Edward
 - Prince Rupert and Port Edward to continue to administer their own collection services
2. Encourage continued waste reduction by passing any savings resulting from waste reduction to users
 - Include tipping fee costs when calculating collection user charges
 - Set user charges according to actual costs for the service – if costs decline, pass savings along to users



All undertaken; most complete and some ongoing

WHAT WAS PLANNED AND WHAT WAS DONE?



Islands Collection Service Objectives & Policies

1. Provide a refuse collection service to all islands residents accessible by road

- Enumerate and develop a customer list for occupied residences and active commercial establishments
- Invite BC Parks and MOTI to participate in the regular collection service for their roadside refuse containers
- Provide a weekly refuse collection service
- Establish local refuse collection services for Moresby Island, QC/Skidegate, Port Clements/Tlell, Masset/Old Massett
- Allow communities to opt out (municipalities only in the event that similar service is provided) & revise service areas as needed
- Tender each local service area for weekly refuse service

- Develop specifications for the local collection service
 - Tender contracts for collection of fees from all areas except Skidegate and Old Massett
 - Identify quarterly collection billing fee
 - Waste coordinator is designated responsible for handling enquiries
 - All user fees remaining at year end to be transferred to arrears
 - Consider reduced rates be set for those on low or fixed income
- ### 2. Provide additional collection services for commercial or institutional users
- Successful bidders for local collection contracts be given the option of having the NCRD collect fees for additional services

All undertaken; most complete and some ongoing



Islands Transfer Stations Objectives & Policies

1. Provide convenient facilities for deposit of bulky items, recyclable metals and temporary storage of transportable waste

- Provide facilities open to the general public in Masset, Port Clements, Skidegate and Sandspit
- Design the transfer station to be durable, resist bears and vermin, low maintenance facilities for limited public use
- Design transfer stations to accommodate 50 yd³ roll-off-roll-on bins
- Maintenance of the transfer stations to be part of the contract awarded for local collection
- Maintenance contractor shall contact the haulage contractor when the bins require emptying
- Storage areas will be designated for the temporary storage of autohulks, tires and white goods at all transfer station sites

- The septage disposal area will continue to be permitted at the Sandspit Transfer Station
 - Designate areas at all transfer stations for the burning of woodwaste and other combustibles
 - The maintenance contractor shall collect all fees from the public as specified by the NCRD
- ### 2. Provide a method to fund the capital and operating cost of the transfer station
- Fees collected shall be applied to transfer station operations
 - The initial capital costs of the transfer stations to be funded by grants, taxation, agreements
 - Additional funds to be collected from taxation and agreements
 - Operating costs of the transfer station shall be paid from user charges
 - Annually review fees and charges for transfer station sites

All undertaken; changes recently made



Islands Haulage Objectives & Policies

1. Provide an efficient system for moving solid waste from the transfer stations to the landfill
 - One contract be awarded to haul waste from the transfer stations to the landfill
 - Establish a schedule of hauling hours to minimize cover requirements at the landfill
 - Provide the necessary numbers of transfer bins
2. Provide a fair method to fund the operation of the haulage system
 - The annual cost of the haulage contract will be apportioned amongst the total number of collection units and applied to their quarterly bills

All undertaken; changes recently made



Mainland & Islands Implementation Objectives

1. Implement this plan in a way that will minimize inconvenience to residents
2. Ensure that possible negative reactions to some plan policies are addressed during implementation
3. Ensure that the public and system users are participants in any modifications to this plan
4. Provide a framework to resolve disputes arising from implementation of the plan
5. Ensure that the entire system is funded to accomplish the goals of this plan



WHAT ARE THE STRENGTHS OF THE EXISTING SYSTEM?

WHAT IS WORKING WELL AND SHOULD BE RETAINED/ENHANCED IN THE NEXT PLAN?



WHAT ARE THE AREAS FOR IMPROVEMENT IN THE EXISTING SYSTEM?

WHAT IS NOT WORKING WELL AND NEEDS IMPROVEMENT OR A NEW APPROACH?



Consider all aspects of waste management: data and tracking; waste reduction; waste diversion; residuals management, and finance



PROPOSED APPROACH TO SWMP DEVELOPMENT

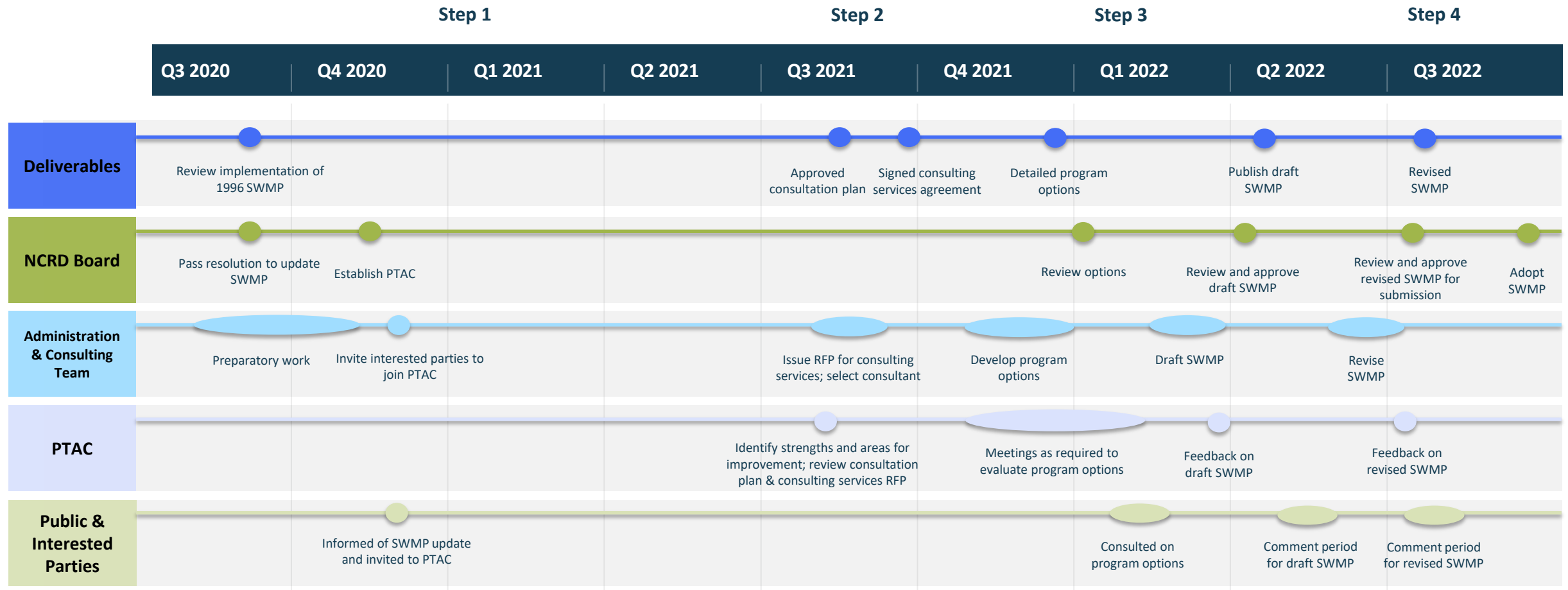
A LOOK FORWARD



- The Ministry of Environment published a “Guide to Solid Waste Management Planning” in 2016
- The Guide describes a four-step process, which the NCRD can adapt to meet its needs



DRAFT PROCESS FOR THE NCRD



STEP 1: INITIATION



- Define the area covered by the plan
- Assemble background information about the plan area (including current waste management practices)
- Set the scope of work
- Seek a resolution from the NCRD Board to initiate development of the SWMP
- Develop the overall consultation plan
- Set the project budget
- Notify interested parties of the upcoming process and invite them to join PTAC
- Present draft approach to PTAC, receive and incorporate feedback



SWMP PLAN AREA



- The SWMP will include the entire regional district
- Planning will include goals, objectives and policies for both mainland and Haida Gwaii service areas of the NCRD
- The City of Prince Rupert owns and operates the landfill in the mainland





- Information on current waste management systems was presented earlier
- Population:
 - 18,133 in 2016
 - From 2011 to 2016, most communities within the NCRD saw modest population decline; given proposed industrial activity on mainland, this trend is anticipate to change
- External factors affecting waste management
 - Expanded EPR programs
 - Markets for recyclables
 - Fate of major industrial projects

WHAT SHOULD THE NEW SWMP FOCUS ON?



1. Improve the operational and financial efficiency of the NCRD waste management systems
2. Assist users to improve their participation in waste segregation and diversion programs
3. Continue monitoring solid waste management facilities and services
4. Maintain and improve relationships with large waste generators
5. Maximize compliance with new and existing product stewardship programs
6. Improve service delivery to rural communities

This approach has support from the NCRD Board and Administration



- Many items from the 1996 SWMP are still relevant and will be included in the next SWMP (education, promotion, collaboration)
- Major changes to the operation of new facilities and programs are not anticipated to be in scope, because systems need longer to operate
- Optimizing operations is completely within scope!
 - E.g. actions that would increase the diversion rate for residential materials or commercial generators that are below average



- The following items are in scope and should be carefully considered:
 - LFG utilization/carbon pricing
 - Compliance with expanded program stewardship programs
 - Collection of garbage and/or recycling in underserved communities
 - Transportation of materials from service areas
 - Diversion strategies
 - Cost recovery models



Does the draft approach make sense to you?

Content; Sequence; Scope; Approach

What changes (if any) would you make?



PUBLIC AND TECHNICAL ADVISORY COMMITTEE

ROLE, RESPONSIBILITY, MEMBERSHIP



Provide input on:

- Strengths and weaknesses of the current system
- Guiding principles, goals and targets
 - Design and implementation of consultation plan
- Identification, development and evaluation of options for the proposed SWMP
 - Results of public consultation
 - The draft SWMP

Key Terms:

- PTAC makes recommendations to the NCRD Board. The Board is the final decision-making authority.
- Representatives of provincial and federal agencies are non-voting members.
- The goal is consensus; any members unable to agree with a decision may have their objections noted.



- Two representatives from the NCRD Board ◆
- Members representing government agencies, which may include:
 - Council-appointed delegates from member municipalities ◆
 - Council-appointed delegates from First Nations communities (2 currently)
 - Council-appointed delegates from neighbouring regional districts
- Members of the NCRD Regional Recycling Advisory Committee ◆
- Up to 10 members representing a diversity of community interests (4 currently)
- NCRD Staff members (CAO, Superintendent of Waste Management, ISW Manager) ◆
- Appointed local, provincial, and federal government representatives (1 currently)



Do you have any questions about the role of the PTAC?

Do you have any suggestions for improving the functioning of the PTAC?



WRAP UP



- The 1996 SWMP has mostly been implemented
- A new SWMP will be developed now through 2022
- Proposed focus is on optimizing the operations of waste management systems and programs
- PTAC will provide input on new SWMP

Next scheduled meeting of the PTAC:

1. Identify strengths and areas for improvement in existing waste management systems
2. Review and provide input on draft consultation plan
3. Review and provide input on draft RFP for consulting services





NORTH COAST

REGIONAL DISTRICT

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