



Solid Waste Management Plan Update

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Solid Waste Management Plans

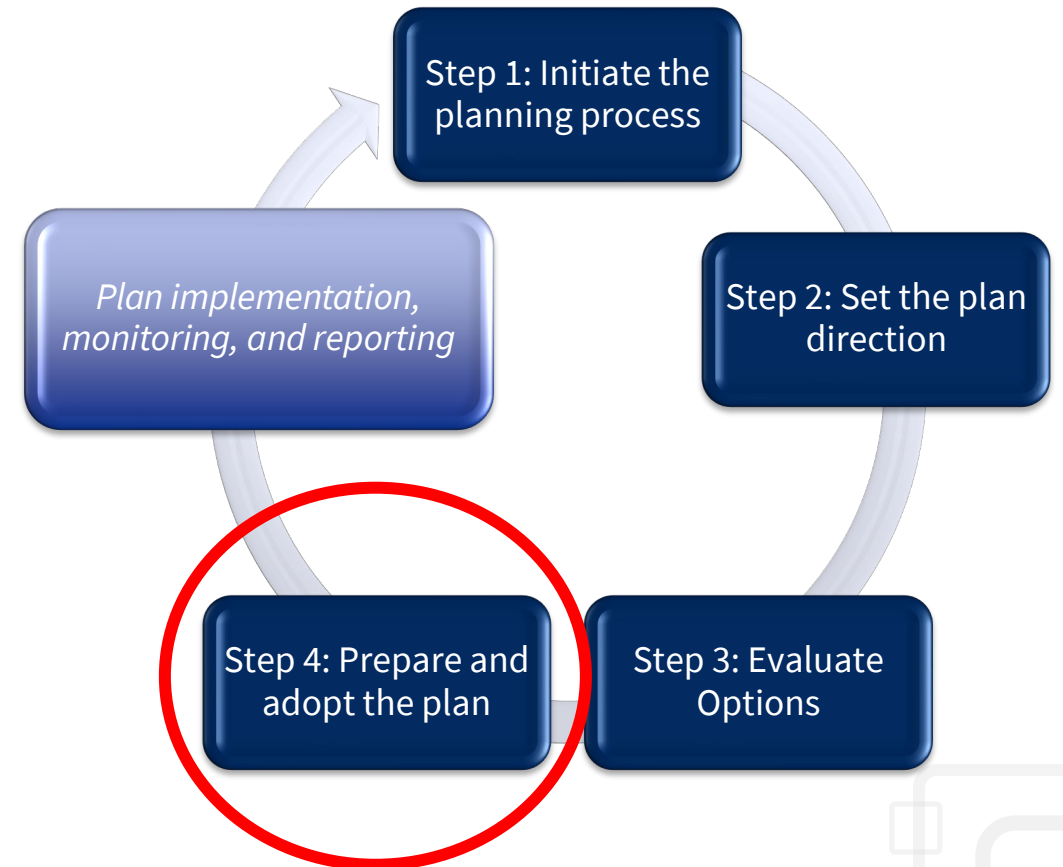


- Regional Districts are required to prepare Solid Waste Management Plans (SWMP) every 10 years
 - The SWMP is a framework to reduce waste and manage solid waste efficiently
 - Member municipalities, First Nations communities, electoral areas are all key stakeholders
- The SWMP:
 - Guides waste reduction and solid waste activities
 - Prioritizes waste management programs and investments using the pollution prevention hierarchy
 - Identifies resources and implementation schedule for the initiatives in the SWMP



Solid Waste Management Planning Process

- Four-Step Planning Process
 - BC Ministry of Environment and Parks
- Steps
 - 1. Initiation
 - 2. Set direction
 - 3. Evaluate options
 - 4. Prepare and adopt plan
- Engagement
 - Advisory Committees
 - Public Consultation Phases (3)
 - Collaborator Meetings



What is municipal solid waste?



- **Municipal Solid Waste (MSW)**

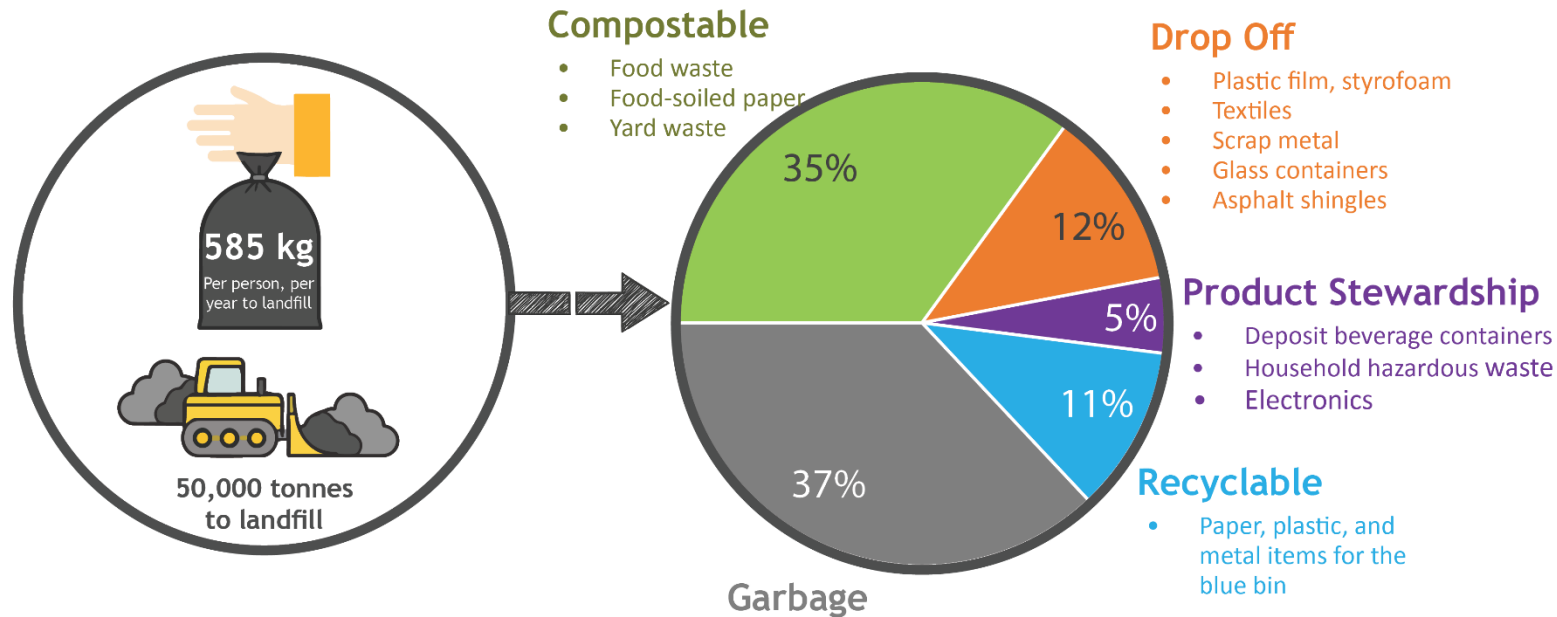
- Refuse that originates from residential, commercial, institutional, demolition, land clearing or construction sources
- **Includes all materials:** garbage, recyclables, food waste, yard waste, etc.
- **Does not include:** heavy industry, hazardous waste, biomedical waste, agricultural or forestry waste



What's in the waste?



What's going to landfill?



- The region generates approximately 96,500 tonnes of solid waste each year.
- Nearly 50% of this material is recycled.
- Remaining 50,000 tonnes of waste is disposed of in landfills annually (585 kg for each person living in the RDOS).

Solid Waste Management in Penticton



- Municipal and Private Collection Services:
 - Garbage, Recycling, and Yard Waste Collection
- Self-Haul Facilities
 - J&C Bottle Depot
 - London Drugs
 - Return-It
 - Metal Recycling and Salvage (Action Steel Sales)
 - Campbell Mountain Landfill



Solid Waste Management in Penticton



- Waste Disposal
 - Campbell Mountain Landfill
 - ~86 years of space remaining
 - Leased to the RDOS until 2035
 - Services 47,000 people
 - Planned projects include construction of a biocover and future landfill expansion.
- Composting/Recycling
 - City of Penticton Compost Facility (Campbell Mountain Landfill)



Solid Waste Management in Penticton



- Support for Waste Diversion, Communication, and Education
 - Penticton Area Cooperative Enterprises
 - Electronics repair/sales and recycle
 - Mattress recycling, some deconstruction
 - Habitat for Humanity ReStore



Penticton Secondary students take on zero waste challenge

Four themed weeks from recycled clothing to reducing plastics and food waste



Solid Waste Management in Penticton

LET'S TALK
less trash

REDUCE • REUSE •
RECYCLE

- City of Penticton
 - Environmental Outreach Ambassadors (2)
 - Conduct curbside recycling audits
 - Implement recycling education @ schools
 - Educational materials and campaigns for additional recycling items ('What goes where')
 - Book recycling program @ Penticton Library won Gold Quill Award
 - Annual education outreach activities include multi-media and in-person approach such as at the Farmer's Market
 - Solid Waste Coordinator



What Goes Where?

[Books? Here's what to do with them](#)

[Glass? Do NOT Place in Your Home Recycling Cart](#)

[How to Recycle Shredded Paper](#)

[Clothing or Materials? Here's what to do with them](#)

[Metal Items? Here's what to do with them](#)

[Recycling Tips Sheet](#)

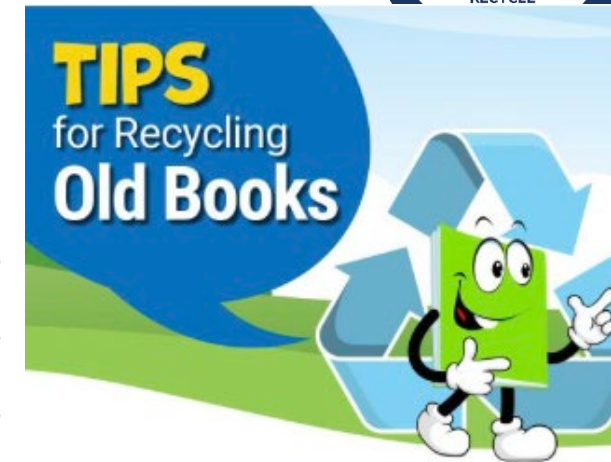
[NO - Do Not Add Dangerous Items to Recycling](#)

[Got Milk Jugs? Or Plant-Based Beverage Packages?](#)

[Where to Drop Off Electronics & Small Appliances](#)

[Keep these Items Out of Your Home Recycling](#)

[Download Your Recycling Brochures](#)



In-School Recycling Presentations



Our Sustainability Coordinator is providing recycling presentations to classrooms and other organized groups throughout Penticton. This is a 45-minute discussion, providing tips and tricks about how to recycle better.



Solid Waste Management Plan



SWMP Guiding Principles



Waste Prevention	Prevent organics and recyclables from going into the garbage whenever practical.
Zero Waste	Promote zero waste approaches and support a circular economy.
Polluter Pays	Support polluter and user-pay approaches and manage incentives to maximize behaviour outcomes.
Cost Optimization	Optimize cost management over time considering short- and long- term financial considerations.
Collaborative Partnerships	Develop collaborative partnerships with interested parties to achieve regional targets set in plans.
Regional Collaboration	Collaborate with other regional districts whenever practical.
Resource Recovery	Maximize beneficial use of waste materials and manage residuals appropriately.

SWMP Goals



RDOS Target

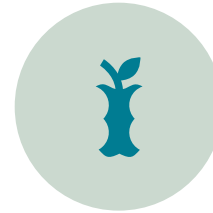


- ✓ **Explore** and support local waste **reduction, reuse, and repair** initiatives across the region.
- ✓ **Increase diversion of organics**, recycling materials, and construction, demolition and renovation waste materials to achieve a regional waste disposal target of 450 kg/capita per year by 2036.
- ✓ **Reduce improper disposal** and waste management practices, including illegal dumping and contamination of waste diversion streams.
- ✓ **Optimize disposal efficiency** across the regional district with a focus on financial sustainability of solid waste services.
- ✓ **Increase collaboration** with community partners and member municipalities to support the development of local solutions.

Key Aspects of the SWMP



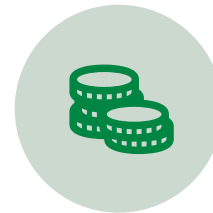
Reduce, Reuse and Repair



Recycling, Organics, and C&D Waste Diversion



Waste Management Practice Improvements



Disposal System Efficiency and Financial Sustainability



Planned Infrastructure and Program Supports



Highlights



Planned Infrastructure and Program Supports



What does the SWMP say?

Establish a regional organics processing facility.

- Construct the planned Regional Organics Processing Facility adjacent to the Campbell Mountain Landfill.
- Develop and implement operating plans, contracts, and procedures required to effectively operate the facility.

- If required, construct organic waste transfer infrastructure at existing solid waste facilities and coordinate access to organics processing capacity.

How does this affect your community?

Access to **organics processing capacity** :

- Expand collection programs and look to move to every-other-week garbage collection.



What does the SWMP say?

Expand organics collection to commercial and multi-family sectors.

- Provide educational materials, collaborate between jurisdictions, expand services, provide technical support, accept non-residential materials at a regional organics facility.

Develop mandates and options to divert more construction and demolition materials from disposal in landfills.

- Mandate deposits within the building permit system, multi-stream bins.
- Increase tipping fees to support markets for material recycling.

How does this affect your community?

- Access to **educational materials** from the RDOS and other member municipalities.
- Consider **expanding collection services** to include businesses and multi-family.

- Possible **bylaw changes** to promote deconstruction over demolition (pre-1950's buildings). (Support for development from RDOS.)
- **Mandatory waste diversion** in Construction and Demolition .
- **Enforcement.**

Highlights



Waste Management Practice Improvements



Disposal System Efficiency and Financial Sustainability



What does the SWMP say?

Develop a Disaster Debris Management Plan:

- Collaborate on a plan including all municipalities and electoral areas that will direct the approach to disaster debris management to minimize future costs and delays in recovery.

Optimize and harmonize waste disposal system infrastructure:

- Conduct a study to rationalize waste disposal infrastructure by consolidating landfill services and closing or transitioning some of the existing facilities to transfer stations.

How does this affect your community?

- Contribute to disaster debris planning.
- Collaborative procurement of emergency support services.
- Collective planning for staging/storage areas.
- Consider operations/ownership of the Campbell Mountain Landfill.
- Opportunity to review all the facilities in the RDOS and decide what to operate.

Financial Implications of the SWMP



- No new significant capital projects (**all capital projects based on 2011 SWMP and landfill DOCPs**).
- Over the life of the plan the **RDOS is expected to spend approximately \$700,000** (average \$70,000 per year) and will require additional staff members (average of 0.9 FTE per year).
- Expected municipal costs:
 - Staff time to implement programs such as education for curbside collections, bylaw changes, and enforcement. Staff hours will depend on which initiatives the City adopts.
 - Increased collection/process costs to include organics collection.



Borrowing to Support Continuity in Essential Services

- Once approved the plan provides the authority for the RDOS or member municipalities to **borrow up to \$8 Million to purchase or lease the equipment necessary to operate essential services.**
 - Operation of the Campbell Mountain Landfill.
 - Curbside garbage, yard waste, and recycling collection by the RDOS and member municipalities.
 - Waste hauling between regional transfer stations and landfills.



Request



- **Adopt a resolution** supporting the Solid Waste Management Plan to be included in the RDOS' submission to the Ministry of Environment and Parks.
- **Provide comments** on the Plan to RDOS.
- **Provide any additional information** that should be included in the Plan.





Questions?

