

**REGIONAL DISTRICT OF BULKLEY-NECHAKO****WASTE MANAGEMENT COMMITTEE****AGENDA**

Thursday, January 13, 2022

<u>PAGE NO.</u>		<u>ACTION</u>
	<u>CALL TO ORDER</u>	
	<u>AGENDA</u> – January 13, 2022	Approve
	<u>SUPPLEMENTARY AGENDA</u>	Receive
	<u>MINUTES</u>	
3-7	Waste Management Committee Meeting Minutes – December 16, 2021	Approve
	<u>COMMITTEE ADVOCACY</u>	
	Verbal Update – Chair Fisher – Ministry of Environment and Climate Change Strategy Meeting – December 20, 2021	
8-17	Northern BC Solid Waste Management Forum 2021 Resource Package	Receive
	<u>SOLID WASTE ADVISORY COMMITTEE UPDATE</u>	
	Verbal Report re: Recruitment	
	<u>POLICY REVIEW</u>	
	None	
	<u>DIVERSION & RECYCLING</u>	
18-19	Ministry of Environment and Climate Change Canada -Single-Use Plastics Prohibition Regulations	Receive
	Verbal Report – Recycle BC Depot Challenges	
	<u>OPERATIONS UPDATE</u>	
20-25	Alex Eriksen, Director of Environmental Services - Knockholt Landfill Update – Waste Re-routing Plan	Receive
	<u>MISCELLANEOUS</u>	
	None	

FUTURE MEETING TOPICS

- **Environmental Services Department Structure Update – January 2022**
- **Agricultural Plastics Pilot Program Update – February 2022**
- **Metal Salvage Discussion – March 2022**
- **Revenue vs. Diversion Discussion Including Airspace & Development Costs – March 2022**
- **Legacy Projects – Funding Request Updates – March 2022**
- **Wood waste discussion (focus on diversion and airshed issues)**

SUPPLEMENTARY AGENDA

NEW BUSINESS

ADJOURNMENT

REGIONAL DISTRICT OF BULKLEY-NECHAKO**WASTE MANAGEMENT COMMITTEE MEETING****Thursday, December 16, 2021**

PRESENT: Chair Mark Fisher

Directors Gladys Atrill – via Zoom
Shane Brienen
Chris Newell
Jerry Petersen
Michael Riis-Christianson
Gerry Thiessen - left at 2:35 p.m.

Staff Curtis Helgesen, Chief Administrative Officer – left at 2:55 p.m.
Cheryl Anderson, Director of Corporate Services
Janette Derksen, Waste Diversion Supervisor
Alex Eriksen, Director of Environmental Services
Wendy Wainwright, Executive Assistant/Recording Secretary
Kara Wall, Environmental Services Assistant – via Zoom

Others Clint Lambert, Electoral Area “E” (Francois/Ootsa Lake Rural) – arrived at 3:15 p.m., left at 3:24 p.m.
Mark Parker, Electoral Area “D” (Fraser Lake Rural) – arrived at 2:50 p.m., left at 2:55 p.m.

CALL TO ORDER

Chair Fisher called the meeting to order at 2:18 p.m.

AGENDAMoved by Director Newell
Seconded by Director Petersen**WMC.2021-6-1**

“That the Waste Management Committee Agenda for December 16, 2021 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY**MINUTES****Waste Management
Committee Meeting Minutes
-November 4, 2020**Moved by Director Petersen
Seconded by Director Newell**WMC.2021-6-2**

“That the Minutes of the Waste Management Committee for November 4, 2021 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

COMMUNITY ADVOCACY

Verbal Update – Chair Fisher

North Central Local Government Association - Northern BC Solid Waste Management Virtual Forum -October 12-13, 2021

- Chair Fisher will bring forward a report at a future meeting
- Met with TC Energy after the conference and they indicated that the forum provided a good learning opportunity
- Discussed with Regional District of Fraser-Fort George and Regional District of Kitimat-Stikine continuing with a Northern BC Solid Waste Management Working group
- Follow up regarding wood waste.

Coast Waste Management Association Meeting

- Discussed – Return-it Program
 - o Functioning Extended Producer Responsibility (EPR) Program
 - o Wanting to add textiles and milk jugs
 - o Future awareness campaign
 - o Chair Fisher will investigate opportunities to work with them moving forward
- Presentation – Asphalt shingles
 - o Potential for three Asphalt recycling facilities in Canada.

Meeting with TC Energy – Chair Fisher and CAO Helgesen

- Legacy funding
- Discussed pelletizers/wood waste
- Follow up to take place in 2022.

Meeting with Ministry of Environment and Climate Change Strategy – December 20, 2021

- UBCM follow up meeting
- Topics for discussion:
 - o ICI
 - o Creating incentive programs
 - o Create financial structures with incentives for programs/collection activities.

SOLID WASTE ADVISORY COMMITTEE (SWAC) UPDATE

Verbal Report re: Recruitment

Youth Application

- Solid Waste Advisory Committee Terms of Reference
 - o Attract youth to participate on committee
- Applications were provided to Directors on their weekly update and on the RDBN website
- Advocacy for youth attraction
- Extend deadline to January 2022.
- SWAC a priority for staff.

POLICY REVIEW

None

DIVERSION & RECYCLING

First Nations Recycling

Moved by Director Riis-Christianson
 Seconded by Director Brien

WMC.2021-6-3

“That the Committee receive the Waste Diversion Supervisor’s First Nations Recycling memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Update – Handling Procedures for Hazardous Materials

Moved by Director Newell
 Seconded by Director Riis-Christianson

WMC.2021-6-4

“That the Committee receive the Director of Environmental Services’ Update – Handling Procedures for Hazardous Materials memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

OPERATIONS UPDATE

Verbal Update

- Daily Landfill Cover Requirements
 - o Ministry of Environment and Climate Change Strategy requirements are 100% daily cover
 - Prevent birds from accessing garbage and wind blow of garbage
 - o Staff to provide an Operational update in January 2022.
 - o Discussed various material options to be utilized for daily cover.
- Wood Grinding
 - o Commenced wood grinding pilot project
 - o Wood waste can be used for daily cover
 - o Grinding vs. chipping vs. sawdust
 - o Burning of wood waste
 - Air curtain burner.

Department Activity Update

Moved by Director Newell
 Seconded by Director Brien

WMC.2021-6-5

“That the Committee receive the Director of Environmental Services’ Department Activity Update memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Knockholt Landfill Update -Waste Re-routing Plan

Moved by Director Riis-Christianson
 Seconded by Director Petersen

WMC.2021-6-6

“That the Committee receive the Director of Environmental Services’ Knockholt Landfill Update – Waste Re-routing Plan memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

OPERATIONS UPDATE (CONT'D)

Alex Eriksen, Director of Environmental Services provided an overview of the Knockholt Landfill Update – Waste Re-routing Plan memorandum. He noted that he conducted an evaluation of the Landfill on December 15, 2021 and spoke to adjusting the timelines of the proposed KLF re-routing plan stages by approximately one month.

Discussion took place regarding:

- Potential cost to haulers and contractors to re-route waste to Clearview Landfill
 - Working with small business/contractors/haulers
- Cost to the RDBN to re-route waste to Clearview Landfill
- Knockholt Landfill (KLF)
 - No ability to store waste
 - Expanding footprint and utilizing airspace
 - Current footprint
- Continuous evaluation of waste re-routing plan moving forward
- No capacity concerns regarding Clearview Landfill
- Staff to provide the following:
 - Cost of re-routing plan
 - Lost revenue if Stage 2 – Out-of Region waste disposal agreements are not renewed
 - Cost to the RDBN to haul waste in regard to the re-routing plan
 - Fuel, truck maintenance, etc.
 - Review Solid Waste Management Facility Regulations and User Fee Amendment Bylaw 1879, 2019
 - Provide an update on re-routing plan at each Waste Management Committee Meeting
 - Present pictures and aerial overviews of the landfill to the Waste Management Committee
- Re-routing plan - weather dependent
 - Anticipating not moving forward to Stage 3 and 4 of the Re-routing Plan
- *Local Government Act* Section 273 – General prohibition against assistance to business and Section 274 – Exception for assistance under partnering agreements
- Approaching other agencies/industry regarding large construction/rebuilding projects for future landfill planning, e.g. schools, hospitals, industry etc.
- Cumulative impact from industry activity
- Further discussions with TC Energy
- Utilizing percentage of revenue from camp fees and out-of-region waste for long-term capital infrastructure
 - Bring forward at a future meeting
- Long-term landfill planning
 - Shelf ready plans for long term development
 - Future planning
- Timeline of Re-routing plan
- Staff to provide an update at the January 13, 2022 Waste Management Committee Meeting.

MISCELLANEOUS

Verbal Report re: Impact of Lower Mainland Flooding

- Minimal impacts to recycling in the RDBN
- Recycle BC requested suspension of glass and foam deliveries
- RDBN collection status quo
- Smithers and Area Recycling Society foam densifier
 - o Repairs required
 - o RDBN staff requested renting the densifier
 - Have yet to receive a response.

FUTURE MEETING TOPICS

- Environmental Services Department Structure Update – January 2022
- Agricultural Plastics Pilot Program Update – February 2022
- Metal Salvage Discussion – March 2022
- Revenue vs. Diversion Discussion Including Airspace & Development Costs-March 2022
- Legacy Projects – Funding Request Updates – March 2022.

ADJOURNMENT

Moved by Director Newell
 Seconded by Director Brien

WMC.2021-6-7

“That the meeting be adjourned at 3:41 p.m.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

 Mark Fisher, Chair

 Cheryl Anderson, Director of Corporate Services

NORTHERN BC
SOLID WASTE 20
MANAGEMENT FORUM 21

Attendee Resource Package



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Forum Recordings and Presentations

Below you will find a detailed version of the forum program including speaker, moderator, and presenter names, as well as links to the recording of each session, and the slide decks that were provided.

Additional resources mentioned during the forum can be found in the next section of the document.

Day 1: Framing the Issues

Keynote Speaker:

The Future of Waste Management and the Circular Economy
with Rosemary Cooper, Share Reuse Repair Initiative

[Slide Deck Link](#)

[Session Recording Link](#)

Rosemary discussed the circular economy, how it can be used to shape the future of waste management, & what local governments can do to cultivate and advance the circular economy in relation to solid waste within northern communities.

Panel Session 1:

Local Government Snapshots – Framing the Issues in the North + Q&A

[Session Recording Link](#)

Moderated by: Avery Gottfried, BC Ministry of Environment and Climate Change Strategy

Six Regional Districts in the NCLGA area presented their specific challenges within waste management and discussed opportunities for collaboration. Panelists included:

- **Regional District of Fraser-Fort George** - [Slide Deck Link](#)
 - Petra Wildauer, General Manager of Environmental Services
 - Lara Beckett, Vice Chair of Regional District Board of Directors
- **Cariboo Regional District**
 - Tera Grady, Supervisor of Solid Waste Management
 - Al Richmond, Electoral Area G Director & Chair of the Solid Waste Management Committee
- **Peace River Regional District** – [Slide Deck Link](#)
 - Gerritt Lacey, Manager of Solid Waste

- Dan Rose, Electoral Area E Director & Member of the Solid Waste Committee

Panel Session 1 (cont'd):

Local Government Snapshots – Framing the Issues in the North + Q&A

[Session Recording Link](#)

- **Regional District of Kitimat-Stikine**
 - Michael Baker, Director of Works and Services
 - Dean Paranich, Electoral Area B Director
- **Regional District of Bulkley Nechako**
 - Janette Derksen, Waste Diversion Supervisor
 - Mark Fisher, Electoral Area A Director
- **Northern Rockies Regional Municipality – [Slide Deck Link](#)**
 - Lorraine Gerwing, Regional Councillor
 - Hillary Sheppard, Community and Social Development Coordinator

Ministerial Address

[Video Recording Link](#)

Environment & Climate Change Strategy Minister Heyman delivered a recorded address about provincial policy on waste management within the context of the Province's CleanBC Plan.

Day 2: Identifying Opportunities + Solutions

Panel Session 2:

Influencing Change – Culture & Social Norm Shifting, Engaging Communities in Reduction & Diversion

[Session Recording Link](#)

Moderated by: Will Burrows, BC Used Oil Management Association

A panel of industry experts and change specialists delivered presentations and engaged in dialogue about shifting behaviours toward waste diversion and reduction. Innovative ideas, adaptive strategies, and social norm-shifting techniques were discussed in the context of community needs. Panelists included:

- Sue Maxwell, Ecoinspire – [Slide Deck Link](#)

- Mary Forbes, Cariboo Chilcotin Conservation Society – [Presentation Video Link](#)
- John Dennis, [Guelph Tool Library](#) – [Slide Deck Link](#)
- Dagmar Timmer, One Earth

Panel Session 3:

Diverting Organics – Northern Strategies for Food Waste Reduction and Diversion

[Session Recording Link](#)

Moderated by: Terri McClymont, Recycling and Environmental Action Planning Society (REAPS)

A panel of experts in the field of organic waste diversion discussed innovative ideas and strategies for increasing the rate of organics diversion in the North. Panelists included:

- Jaime White, Loop Resource
- Juliana Christiansen-Liptak, District of Kitimat
- Brenda Platt, Institute for Local Self-Reliance – [Slide Deck Link](#)
- Kevin Cormack, City of Nelson

World Café:

Northern Strategies for Waste Diversion and Reduction

[Session Recording Link](#)

A “World Café” style discussion in a virtual setting utilizing breakout rooms, with each room offering participants an opportunity to discuss different topic areas. The goal was to facilitate dialogue and idea-sharing across a range of topics, all of which are common challenges for northern solid waste managers. Discussion topics included:

- Barriers to Recycling in the North & Potential Solutions: Facilitated by Cindi Pohl, Blue Bin Recycling and Disposal
- Strategies for Offsetting Waste Management Costs: Facilitated by Petra Wildauer, RDFFG
- Bulky Items Management & Solutions for Illegal Dumping: Facilitated by Rachael Ryder, RDFFG
- Textile Waste Diversion: Facilitated by Allen Landon, Return It
- Wood Waste Management: Facilitated by Jim Donaldson, Wood Waste Recycling Association

Please note: this session’s video recording features facilitator summaries of each break-out session, as individual break-out discussions were not recorded.

Plenary “Lightening” Sessions[Session Recording Link](#)

Moderated by: Cori Ramsay, City of Prince George & North Central Local Governments Association

Participants in this session heard from experts on a variety of topics related to solid waste management.

Speakers included:

Laura Zapotichny, Regional District of Fraser-Fort George
Demolition, Land-clearing, Construction Waste Management

Carly Fraser, Clean Farms BC
Agricultural Plastics Solutions

Bob McDonald, BC Ministry of Environment and Climate Change Strategy – [Slide Deck Link](#)
Small Communities under EPR: How can Regional Districts work with the Ministry of Environment & Climate Change Strategy to ensure communities under 5,000 people are participating in EPR programs?

Mark Watt, SWANA Pacific Chapter – [Slide Deck Link](#)
Introduction to SWANA and the benefits of membership in a solid waste managers association.

Colin McKean, Canadian Battery Association
How Small and Remote Communities can Increase Accessibility to Stewardship Programs - Case Study of Lead Batteries

Additional Resources

Keynote

- [Circular Procurement Summit 2021, November 15-18 2021](#)
The Circular Innovation Council presents Circular Procurement Summit 2021, to engage the intersection of public and private sector interests to achieve and accelerate the circular economy.
- [Unbuilders](#)
A BC-based deconstruction & salvage company that dismantles or “unbuilds” buildings and salvages almost everything, including irreplaceable Old Growth lumber, windows, doors, cabinets, fixtures and appliances.
- [Metal Tech Alley](#)
Metal Tech Alley is a great example of how rural communities can advance the circular economy. The initiative is focused around mining and forestry, while making environmental protection profitable, and providing a road map to support thriving communities.

Local Government Snapshots- Framing the Issues in the North

- [Wood Waste Reuse Waiver](#)
Supplied by the Cariboo Regional District.
- [Regional District of Fraser-Fort George | Waste Reduction \(sortsmart.ca\)](#)
Mentioned by Laura Zapotichny, Regional District of Fraser-Fort George.
- [Beyond Recycling – Wildsight](#)
Mentioned by Danielle Alan, Regional District of Fraser-Fort George.

Influencing Change – Culture & Social Norm Shifting, Engaging Communities in Reduction & Diversion

- [The 7 Motivations for Lighter Living Action in BC](#)
Provided by Dagmar Timmer, One Earth - dagmar@oneearthweb.org
- [Fostering Sustainable Behaviour](#)
Provided by Sue Maxwell, Ecoinspire.
- Lani Gibson, District of Kitimat, was quite involved at a political level in bringing curbside organics collection to Kitimat. Those interested in launching a new program are welcome to reach out.

World Café Discussions

- [Vinted](#)
Textile resale platform provided by Allen Langdon, Return It.
- [Think Thrice \(metrovancover.org\)](#)
Metro Vancouver’s Think Thrice About Your Clothes campaign, provided by Sue Maxwell, Ecoinspire.

Lightning Rounds

- [MARR BC 2022 Stewardship Plan Consultation](#)
Major Appliance Recycling Roundtable (MARR) has started the consultation process for their 2022 stewardship plan. Please follow the above link, provided by Chris Campbell, MARR if you would like to attend a virtual session or submit written comments.

Forum Discussion Takeaways

IC&I Waste

IC&I waste management and recycling is a commonly held and significant issue with lack of EPR support in the region. Potential solutions mentioned included:

- deconstruction courses in school trades programs
- school programs that provide deconstruction for free with the caveat that recovered materials are resold to support the school & program
- more support from the Province and EPR programs

Organics Diversion

There was quite a bit of interest shown in the potential and promise of vermicomposting. Consultation and collaboration with the private sector were also discussed as a potential opportunity around obtaining the facilities required for a composting program.

Community Initiatives

Getting communities involved in waste reduction and diversion efforts can be an effective means of fostering more awareness and desirable behaviour in these areas. Lots of interest was shown around the potential for supporting community initiatives like:

- Share-sheds
- Repair cafes
- Community composting

Illegal Dumping

Illegal dumping continues to be a shared issue of most Regional Districts and Municipalities in the North. Some RD's have found that frequency of illegal dumping doesn't seem to be correlated with tipping fees, indicating that alternative methods should be explored. A successful method mentioned was an educational video collaboratively produced by mid-island Regional Districts.

Wood Waste

Burning wood waste such as chips and single-use pallets is common practice due to the costs of chipping and hauling, and potential alternatives must consider regenerative practices and soil health. Finding a way to incentivize source separation of DLC and IC&I waste was discussed as a means to retaining value in wood waste. It was also commonly noted that punitive tipping fees do not help when it comes to reducing wood waste.

Contact Information

Lindsay Sackett

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Fraser Basin Council
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Susan Chalmers

Executive Coordinator
North Central Local Government Association
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[@NBCWasteForum](https://twitter.com/NBCWasteForum)



<https://www.nbc-solid-waste-forum.ca/>



(le français suit)

December 30, 2021

Greetings,

On December 25, 2021, the proposed [Single-Use Plastics Prohibition Regulations](#) were published in the *Canada Gazette*, Part I initiating a 70-day public comment period ending on March 5, 2022. During this period, stakeholders and partners are invited to submit comments to Environment and Climate Change Canada on the proposed Regulations, the accompanying Regulatory Impact Analysis Statement, as well as the draft [Guidance for Selecting Alternatives](#).

The proposed Regulations would prohibit the manufacture, import and sale of six categories of single-use plastic items (checkout bags, cutlery, foodservice ware made from or containing problematic plastics, ring carriers, stir sticks, and straws), with certain exceptions for straws.

The feedback received on the [proposed Integrated Management Approach to Plastic Products](#) has been considered in the development of the proposed Regulations. A [What We Heard Report](#) summarizes this feedback.

The draft Guidance for Selecting Alternatives to the Single-Use Plastics in the Proposed Single-Use Plastics Prohibition Regulations has been developed to help businesses and other organizations make decisions on alternative products or systems that prevent pollution and help Canada transition to a circular economy.

We invite you to review the proposed Regulations, the accompanying Regulatory Impact Analysis Statement, as well as the draft Guidance for Selecting Alternatives and to provide your feedback, no later than March 5, 2022, to the following email address: plastiques-plastics@ec.gc.ca. Feedback should include the following for each specific comment:

1. the section of the proposed Regulations, Regulatory Impact Analysis Statement, or draft Guidance for Selecting Alternatives to which the comment relates

e.g., 5(1)(a)(i) of the regulatory text; “Select Canadian Market Characteristics” section of the Regulatory Impact Analysis Statement; “Considerations for Alternative Single-use Plastics” section of the draft Guidance for Selecting Alternatives;

2. the comment itself; and
3. any supporting information or rationale.

All written feedback received during the comment period will be considered in the development of the final Regulations and Regulatory Impact Analysis Statement, which will be published in the *Canada Gazette*, Part II. Feedback will also inform the finalization of the Guidance for Selecting Alternatives.

Environment and Climate Change Canada is available to provide further information and clarification on the requirements of the proposed Regulations to affected businesses or organizations, via virtual meetings or webinars.

Should you have any questions on this consultation process, or if you do not wish to receive future updates about the proposed Regulations please contact us at plastiques-plastics@ec.gc.ca.

Kind regards,

Tracey Spack
Director, Plastics Regulatory Affairs Division
Environment and Climate Change Canada
Gatineau, Quebec
K1A 0H3
Email: plastiques-plastics@ec.gc.ca



**REGIONAL DISTRICT OF BULKLEY-NECHAKO
MEMORANDUM**

To: Chair Fisher and Waste Management Committee
 From: Alex Eriksen, Director of Environmental Services
 Date: January 13, 2022
 Subject: Knockholt Landfill Update – Waste Re-routing Plan

RECOMMENDATION

That the Board receive this memo.

UPDATE

In mid-December, the RDBN was able to construct the liner connection between Phase 3A and 3B along the entire edge of the existing landfill which has two important (and positive) consequences.

1. This will allow construction of the expansion to begin sooner in the spring of 2022 and
2. Provides two additional months of airspace available immediately as shown in the fill plan (attached).

One month of compacted Waste is equal to approximately 3,000 m³ of airspace.

Currently Stage 1 of the Re-routing Plan (below) is in effect. At the current rate of disposal, it is estimated that the Landfill will reach capacity by July 1.

Current Out-of-Region Disposal contracts at the Clearview Landfill will continue until further notice.

UPDATED KNOCKHOLT LANDFILL WASTE RE-ROUTING PLAN

In an effort to minimize the volume of waste received at the Knockholt Landfill to extend the airspace available at KLF until the Phase 3/C expansion could be completed, staff began re-routing large projects to the Clearview Landfill (CLF). In June of 2021 staff developed a more formal re-routing plan with the purpose of ensuring that disposal services for Municipal Solid Waste (MSW) were prioritized over non-essential projects. The Clearview landfill currently does not have capacity issues and can receive additional waste if and when the plan is implemented. The KLF re-routing plan is as follows:

Stage 1 (April 2021)

- No project greater than 5 loads (tandem axle or bin) will be accepted at KLF - re-routed to Clearview.
- Out-of-Region waste - directed to Clearview (or denied disposal)

Stage 2 (January 2022)

- Stage 1 restrictions apply.
- Up to 40% of Burns Lake Transfer Station's waste (2 loads per week) - re-routed to Clearview by RDBN Haul Operations
- Utilize only chipped wood waste as daily cover and minimize loads.

Stage 3 (May 2022 based capacity assessment and construction outlook)

- Stage 2 restrictions apply.
- No Transfer Station Waste accepted from Smithers-Telkwa, Granisle, Southside or Burns Lake – re-routed to Clearview by RDBN Haul Operations
- No new projects greater than 1 load (tandem axle or bin) accepted at KLF - re-routed to Clearview
- No Pipeline Camp Waste accepted – re-routed to Clearview (at hauler expense, disposal fees waived)

Stage 4 (July 2022 based capacity assessment and construction progress)

- Stage 3 restriction apply.
- Full waste diversion to the Clearview Landfill except for municipal waste from the District of Houston (as there is a public transfer station at the Knockholt Landfill)

The Knockholt landfilled will be monitored closely and every effort to maximize airspace will be made to avoid implementing Stage 3 and 4.

UPDATED IMPACTS

Stages 2 and 3 have been adjusted to avoid impacting commercial haulers. The implementation of Stage 4 is highly unlikely, and this stage will require additional planning in consultation with commercial haulers to be undertaken at a later date.

Should the implementation of Stage 3 be necessary, the impact to the RDBN will be primarily associated with the **additional haul times (50 hours to 100 hours)** for the re-routed waste as follows:

- The turn-around time for a load from Smithers-Telkwa would increase from 3.5 hours to 8 hours. There are typically 8 trailer loads hauled from the Smithers-Telkwa Transfer Station per week.
- The turn-around time for a load from Burns Lake would increase from 3 hours to 5 hours. There are typically 5 trailer loads hauled from the Burns Lake Transfer Station per week.
- Granisle and Southside waste haul (Roll-off) would not be impacted, however the waste would be re-routed to the Burns Lake Transfer Station, which would add approximately 1.5 additional loads to the Burns Lake total.

The full re-routing of waste from RDBN transfer stations **COULD** be achieved with existing staff that hold valid Class 1 Drivers Licenses but would require them to focus and coordinate most, or all of their working hours on this long-distance hauling plan. Utilizing existing staff would significantly impact other duties such as maintenance and wood waste hauling, therefore **an additional Class 1 Driver would be hired to minimize disruption to RDBN operations.**

The RDBN currently has a spare tractor truck that could be utilized for Stage 3 re-routing; however **an additional trailer would be required** to accommodate the plan. The increased hauling will also incur additional fuel and maintenance expenses.

The cost for the RDBN to implement waste re-routing from Smithers-Telkwa, Granisle, Southside and Burns Lake to the Clearview Landfill is estimated to be **\$5,000 per week**, as follows:

1. Class 1 Driver: \$1,500 per week
2. Walking Floor Trailer Rental: \$2,000 per week
3. Maintenance and Fuel: \$1,500 per week

PREVIOUS BACKGROUND

In May 2020, staff provided an update to the Board of Directors on the status of the Knockholt Landfill (KLF) and the need to proceed with an expansion (Phase 3B) a year ahead of schedule due to the disposal of large volumes of cardboard and the addition of pipeline camp waste. The Board approved an amendment to the budget based on this need to complete the expansion in 2020. Staff immediately began working on the expansion design and authorization from Ministry of Environment and Climate Strategy (MoECS).

During the design process, a potential groundwater issue in the expansion footprint was identified and a geotechnical investigation was undertaken in July 2020 to determine subsurface conditions. The investigation found that there was a perched water table in a portion of the expansion area. The 2016 Landfill Criteria treats all subsurface water as ground water and a new expansion design was required. The MoECS was clear that an assessment of the landfill and approval for a re-designed expansion would not occur in 2020.

On September 22, 2020, due to the express need for expansion and with favourable soil conditions adjacent the Phase 3A (Active Landfill), authorization was given to the RDBN to construct a 20m extension of Phase 3A, which would provide enough airspace until the 2021 construction season (June/July). Phase 3A extension was completed on October 20, 2020.

For the remainder of 2020 and throughout 2021, Staff and the Engineer (XCG Consulting) continued working towards a robust design for Phase 3B. In December 2020, Staff was informed that an updated Design, Operation and Closure Plan (DOCP) was required by the MoECS before they would consider any new expansion designs for approval. XCG created a new DOCP which was submitted to MoECS in April 2021. The detailed Phase 3B/C design brief was submitted in May 2021. Due to the ground water issues in the expansion area, the design was highly scrutinized and went through several review process before receiving final approval on November 17, 2021. There were other circumstantial delays that slowed this approval process by approximately one month.

Unfortunately, conditions in November were not favourable for construction and the RDBN was only able to achieve preparatory works for a 2022 completion. All layout, materials acquisition and site rearrangement have been completed so Staff will be ready to begin construction as soon as the conditions are favourable in 2022.

The impacts that this plan will have on Clearview Landfill while accommodating the re-routing plan will create manageable challenges. Increased staffing will require recruitment and funding; however, we currently have casual staff willing to assist and contingency wage budgets to mitigate the financial impact. The re-routed waste will also be accompanied by additional operating costs for equipment and site maintenance at CLF, however there may be a savings with reduced costs at KLF.

The additional waste will affect the development schedule of CLF, but the construction of Sub-cell 4 in 2020 and 2021 will provide enough space for this short-term re-routing plan. The current phase still has one sub-cell remaining so this plan will not create any unneeded urgency to develop the next phase.

*Knockholt Landfill Update
Waste Re-routing Plan
January 13, 2022*

CLOSURE

The Knockholt landfill Phase 3 expansion challenges have led to the unfortunate need to develop and implement a Waste Re-routing Plan, which will have impacts for the RDBN and potentially waste generators in our region. Staff has and is making all efforts to provide continual disposal services to our residents and businesses and will monitor the airspace and the landfilling plan closely to minimize the disruption to the western RDBN waste management services.

Respectfully Submitted,



Alex Eriksen
Director of Environmental Services



KNOCKHOLT LANDFILL

2022 FILL PLAN



