

Review Comment Table

Board:	WLWB
Review Item:	Community Government of Behchoko - Solid Waste Facility - Closure and Reclamation Plan - Version 2.0 (W2014L3-0002)
File(s):	W2014L3-0002
Proponent:	Community Government of Behchoko
Document(s):	SWF Closure and Reclamation Plan - Version 2.0 (16 MB)
Item For Review Distributed On:	Nov 25 at 15:22 Distribution List
Reviewer Comments Due By:	Jan 21, 2021
Proponent Responses Due By:	Feb 4, 2021
Item Description:	<p>The Community Government of Behchoko (CGB) submitted Version 2.0 of its Closure and Reclamation Plan (CRP) for the former Solid Waste Facility on November 4, 2020. This plan is required by Licence W2014L3-0002, Part I, Condition 1. The Board approved Version 1.0 of the CRP for the former/old Solid Waste Facility in 2014 during the issuance of Water Licence W2014L3-0002. Board staff note that the new Solid Waste Facility opened in the fall of 2019 and the CGB was using the old/former facility in the interim. The CGB originally planned to close the facility in 2017. The CGB plans to close the former/old facility in 2021. See additional correspondence here.</p> <p>Using the Online Review System (ORS), reviewers are invited to submit comments and recommendations on the documents linked below by the review comment deadline specified. Reviewers may also wish to consider providing an overarching recommendation regarding whether the Board should approve the submission, to provide context for the comments and recommendations, and assist the Board with its decision. If reviewers seek clarification on the submission, they are encouraged to correspond directly with the Applicant prior to submitting comments and recommendations. All documents that have been uploaded to this review are also available on our public Registry. If you have any questions or comments about the ORS or this review, please contact Board staff identified below.</p>
Contact Information:	Anneli Jokela 867-765-4588 Jessica Pacunayen 867-765-4591

Comment Summary

GNWT - ENR - EAM (Environmental Assessment and Monitoring): Central Email GNWT				
ID	Topic	Reviewer Comment/Recommendation	Proponent Response	Board Staff Response
7	General File	<p>Comment (doc) ENR Letter with Comments and Recommendations</p> <p>Recommendation</p>		
1	Topic 1: SNP Revision Required and Unspecified SNP Location	<p>Comment Information provided within the submitted March 2014 Closure and Reclamation Plan (CRP Ver. 2) is referring to the former SNP naming convention, found in the old Water Licence (MV2003L3-0010). As such, Section 5.2 (Page 28) of the CRP Ver. 2, specifies that: "The SNP location 0041-R8 is described as collecting runoff from the existing solid waste facility (shown on Drawing 02)." As per pages 25 & 26 of the latest Water Licence W2014L3-0002 issued in November 2014, this is no longer accurate as SNP 2014-R5 is identified as the monitoring station assigned to the former Solid Waste Disposal Facility (SWDF). SNP stations 2014-R6, 2014-R7, 2014-R8, 2014-R9 and 2014-R10 were all assigned to the new SWDF. Furthermore, and contrary to the information specified in Section 5.2 of the March 2014 CRP Ver. 2, no SNP details/information could be located on both versions of Drawing no. 2 (in the March 2014 CRP Ver.2, and provided with Blue Metric November 2020's memo). Also, details on the monitoring station assigned for the monitoring of the former SWDF could not be located on any of the</p>	<p>Feb 4: CGB and BluMetric will look at the current SNP locations and update Section 5.2 and add an extra drawing for their locations.</p>	

		<p>drawings submitted.</p> <p>Recommendation 1) ENR recommends that the Water Licence file number and SNP information provided in the Community Government of Behchoko CRP (Section 5.2, and elsewhere) be updated to reflect the current Water Licence file number and SNP naming conventions and descriptions, as outlined in Behchoko Water Licence (W2014L3-0002).</p>		
2	None	<p>Comment None</p> <p>Recommendation 2) ENR recommends that the exact monitoring location for SNP 2014-R5, assigned for the monitoring of the former SWDF, be clearly outlined on a revised Drawing No. 2.</p>	<p>Feb 4: BluMetric will make sure to add 2014-R5 to DWG02 or alternate figure if scaling allows.</p>	
3	None	<p>Comment None</p> <p>Recommendation 3) ENR recommends that the Community Government of Behchoko discuss (with associated rationale or evidence) if runoff captured by SNP 2014-R5 for the former SWDF may also possibly be capturing some of the runoff from the new SWDF, located adjacent to the former SWDF.</p>	<p>Feb 4: CGB will send new SNP locations recently added and BluMetric will revise and include in drawings.</p>	
4	Topic 2: Closure and Reclamation Plan - Version Number and Date	<p>Comment In response to delays experienced for the construction of the new SWDF (weather issues, operational challenges and sourcing of appropriate material), the former SWDF remained in operation until September 2019. As such closure activities initially planned in the March, 2014 CRP Ver 2 were delayed, and reported in the summer of 2021. In lieu of submitting an updated CRP version, the</p>	<p>Feb 4: It was decided to take this approach on issuing an addendum since version 1 was already approved and very few changes were being proposed, strictly to address a few changes in site conditions as a result of the delay of the closure. By issuing an addendum, it was considered that this would create efficiencies in reporting, review and approval to undertake the closure in 2021.</p>	

		<p>approved March, 2014 CRP Ver. 2 was re-submitted as such, with a memo introduction letter from Blue Metric Environmental outlining sections and drawings of the CRP Ver. 2 that are no longer accurate (Section 2.2, 2.3, 4.1, 4.4, Drawings No. 2, 3, 4 and 5), along with the revised information. ENR notes that under the water licencing process, proponents are typically required to incorporate revisions within an updated plan version that is subsequently submitted to the Board. All revisions made in a newer version are also typically listed/compiled (with a brief description and associated page number(s) where each change was made), in a revision Table located in the introductory section of the new updated plan. This allows regrouping all current information in one place, minimizing back and forth that would otherwise be necessary between the revised submitted sections and the former version of a plan.</p> <p>Recommendation 1) To prevent confusion, and keep all necessary updated information in one place, ENR recommends that updated sections and drawings, as enumerated here in comments above, be inserted in a separate updated new version of the CRP (likely version 3), along with the associated current date.</p>		
5	Topic 3: Area of Stagnant Pondered Water, Adjacent to the Northwest Corner	<p>Comment As specified in the November 2020 Blue Metric memo (Page 3 of 39), a new area of stagnant ponded water was observed based on a site reconnaissance, conducted since the March 2014 CRP Ver.</p>	<p>Feb 4: BluMetric will update DWG 2 with label information.</p>	

		<p>2 was prepared, and directly adjacent to the northwest corner of the SWDF. It would appear that the new ponded area is not indicated on the updated drawings submitted with Blue Metric memo, as all 'water bodies' identified in both older and recent Drawings versions appear to be the same. Section 3.5 of the CRP Ver. 2 specifies that prior to the closure of the SWDF, the Community will be required to consolidate and remove any materials that have been segregated, such as scrap metal (Section 3.5.2) and white goods/bulky wastes (Section 3.5.3). Following review of all information submitted with/in the CRP and the SWDF O&M Plan, in order to identify where at the site each specific types of wastes were managed/landfilled during the operating life of the former SWDF, ENR was not able to locate this information. Prior to applying a final cover over the former Behchoko SWDF, ENR is of the opinion that it is important that each old SWDF area be clearly identified and outlined (i.e., each type of waste managed and associated area).</p> <p>Recommendation 1) ENR recommends that the Community Government of Behchoko indicate the location of the newly identified ponding area at the former SWDF. If not already indicated on the map. ENR further recommends that this area be indicated in an updated Drawing No. 2 version.</p>		
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6	None	<p>Comment None</p> <p>Recommendation 2) ENR recommends that a drawing be added to the CRP, prior to closure of the former SWDF, in order to represent the various wastes management/landfilling areas (and associated perimeter) used during the operating life of the former SWDF, prior to applying the final cover over the entire SWDF footprint.</p>	<p>Feb 4: Blumetric will update DWG 2 with additional labels to meet those recommendations.</p>	
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Wek' eezhii Renewable Resources Board: Laura Meinert

ID	Topic	Reviewer Comment/Recommendation	Proponent Response	Board Staff Response
1	Closure and Reclamation Plan Version 2.0	<p>Comment The Board has no comments at this time.</p> <p>Recommendation The Board has no recommendations at this time.</p>		

WLWB: Jessica Pacunayen

ID	Topic	Reviewer Comment/Recommendation	Proponent Response	Board Staff Response
1	Uncertainty surrounding future potential contamination	<p>Comment According to Page 1 of the CRP, the old Solid Waste Facility (SWF) has been used for the disposal of wastes generated from the community since 1965. There is little to no information available on the Board's public registry on waste management practices (e.g., what has historically been placed in the old SWF, if a liner was ever installed, etc.) at this location prior to licencing. It is therefore difficult to assess the level of risk for future potential contamination that may arise, especially in consideration of climate change. No environmental monitoring is proposed in the CRP aside from continuing existing surface water monitoring at SNP 0041-R8 (2014-R5).</p>	<p>Feb 4: As stated above, version 1 of the CRP was previously approved in 2014, this is simply an addendum to the aspects that have changed (extra waste, SW Pond).</p>	

		<p>Recommendation Does the CGB have access to additional historical information on waste management practices before licencing that support the proposed closure monitoring? Can the CGB please describe if it has conducted or considered other types of monitoring that support CGB's proposed post-closure monitoring program?</p>		
2	Site end use, closure objectives, and post-closure inspections	<p>Comment Section 4.4 (page 8) of the CRP states that the site end use will be "passive greenspace for wildlife habitat". The CRP also states that "provided there are no ongoing concerns, after the first year of closure the frequency of site inspections can be reduced to coincide with the surveillance network program." Although the CGB has outlined its closure goal, it is not clear to Board staff how the CGB will know it has achieved its closure goal or when frequency of site inspections can be reduced .</p> <p>Recommendation Can CGB describe how they will know if it has achieved its desired site end use? Please describe any site objectives (and criteria if necessary) that would support the desired site end use.</p>	<p>Feb 4: CGB acknowledges that this is an active waste site with a portion of the closed site being used as a segregation area for the new SWDF.</p>	
3	Windblown Waste	<p>Comment The CRP does not describe what the CGB will do with windblown Waste at the SWF.</p> <p>Recommendation Please describe how windblown waste will be managed during the closure of the SWF.</p>	<p>Feb 4: Windblown waste is managed with snow fence to catch as much debris as possible.</p>	
4	Source of final cover	<p>Comment Schedule 4 of the Water Licence requires CGB to provide the type and source of cover materials and maps of</p>	<p>Feb 4: BluMetric will add a drawing that identifies the proposed borrow locations for low perm. soil. CGB will ensure that</p>	

		<p>borrow source materials. Section 4.2 of the CRP describes that a total volume of 20,466 cubic metres of low permeability soil will be used for a final cover. The source of this cover material is unclear and no information is provided to demonstrate/support if and why it is suitable cover material.</p> <p>Recommendation Can the CGB indicate the source of the final cover materials and provide a map? Can the CGB confirm that these materials are not harmful to the environment and clean and free from contaminants? Has there been/Will there be any testing done of the materials prior to use?</p>	<p>characterisation sampling will be conducted prior to importing native material to site as part of the reclamation scope of work.</p>	
5	Northwest Poned Water Management	<p>Comment In order to retrieve waste material that has fallen into water within the northwest ponded area for final closure, the CRP recommends that the water in the northwest ponded area be placed in an adjacent water body or be placed in a "temporary sump within the waste mound". This water was sampled in July 2019 and the CRP recommends that a confirmatory sample be collected prior to dewatering. The results from testing done in July 2019 met CCME water quality guidelines for freshwater (long-term) with the exception of total aluminum, iron, zinc, fecal coliforms, and fluoride. The CGB has also compared these water quality results to the effluent quality criteria for the Landfarm (Part D, Condition 19(a)) that can be discharged on land if criteria is met. The CGB notes that there is no water quality</p>	<p>Feb 4: This body of water is not considered a surface water management pond for the SWDF. It is a natural depression located adjacent to the landfarm and landfill. CGB sampled the water quality of the depression for due diligence to ensure it meets applicable criteria. Further information will be added to the addendum to further describe the management of the storm water. A secondary sample will be taken closer to the excavation date to establish the chosen process.</p>	

		<p>criteria for total aluminum, fecal coliforms or fluoride in the effluent quality criteria for the Landfarm.</p> <p>Recommendation (1) Sending ponded water from the old SWF to an adjacent water body sounds like a potential discharge of waste and it is not clear that the Licensee is authorized to do this. (a) Please provide rationale for how sending ponded water from the solid waste facility complies with the Water Licence. (b) Please provide additional details on the proposed receiving adjacent waterbody (i.e., is it accessible and/or used by people or wildlife?) (2) Please provide information regarding potential additional contingencies/alternatives if using a temporary sump within the waste mound is not an option.</p>		
6	Surface Water Monitoring and Management	<p>Comment Section 5.2 of the CRP references an SNP station (0041-R8) from the previous Water Licence (MV2003L3-0100) that monitors runoff from the solid waste facility. According to the plan, "this SNP location is considered to be carried forward in the monitoring program for the proposed new SWF". The station referred to in the CRP (0041-R8) is currently referred to as 2014-R5 and monitors runoff from the old SWF.</p> <p>Recommendation After the old SWF is closed, does CGB believe this is still an appropriate location to monitor potential runoff of the new SWF? Please provide rationale.</p>	<p>Feb 4: CGB will send new SNP locations recently added and BluMetric will revise and include in drawings.</p>	

7	Surface Water Monitoring and Management	<p>Comment see comment above.</p> <p>Recommendation Depending on CGB's answer above, if this SNP station is no longer appropriate for the new SWF, does CGB believe that the SNP station should be kept to monitor runoff from the old SWF post-closure? Is this location appropriate? Based on the final contours, are there any SNP locations (if any) that would be more appropriate to monitor runoff? If the CGB believes that no runoff monitoring is necessary, please provide rationale.</p>	<p>Feb 4: CGB will send new SNP locations recently added and BluMetric will revise and include in drawings.</p>	
8	Groundwater Monitoring	<p>Comment Section 5.2 of the CRP states that "given the limited potential for exposure of groundwater to landfill related impacts, groundwater monitoring is not included in the closure/post-closure environmental monitoring plan." Board staff note that groundwater monitoring wells have already been installed around the SWF through GNWT-MACA's Land Use Permit W2016X0001 in 2016.</p> <p>Recommendation Has CGB received any results from these groundwater monitoring wells? If so, do the results suggest any potential contamination? Are the locations of the existing groundwater monitoring wells appropriate for monitoring groundwater post-closure should it be necessary in the future?</p>	<p>Feb 4: CGB and BluMetric will investigate the results from this sampling program if we can obtain the results from MACA.</p>	
9	Estimated Closure Cost and Financial Capacity	<p>Comment According to ECCC's Solid Waste Management for Northern and Remote Communities Planning and Technical Guidance Documents, financial assurance is recommended for closure, post-closure care, and known corrective</p>	<p>Feb 4: Applied for Investing in&nbsp;Canada Infrastructure Program Funding in December 2020, awaiting approval (find out in April 2021).</p>	

		<p>actions.</p> <p>Recommendation Please describe financial capacity/access to additional financial assistance to ensure site is closed and the necessary closure activities can take place this year (as anticipated/scheduled).</p>		
10	Implementation schedule	<p>Comment Schedule 4 of the Water Licence requires CGB to include an implementation schedule in its CRP. CGB plans to close the SWF in 2021 but no implementation schedule was provided within the CRP.</p> <p>Recommendation Please provide an implementation schedule of the proposed closure and post-closure activities.</p>	<p>Feb 4: If above mentioned funding is approved, Implementation Schedule will be provided for this Summer's Plan (July through September). Also, depending on CRP approval currently with the board (version 2).</p>	
11	Photos of existing conditions	<p>Comment Schedule 4 of the Water Licence requires CGB to include a description of existing conditions (including photos) in its CRP.</p> <p>Recommendation Does CGB have any photos depicting existing conditions of the SWF? If so, please provide.</p>	<p>Feb 4: Former Landfill Photos on existing conditions.</p>	



January 21, 2021

Joseph Mackenzie
Chair
Wek'èezhì Land and Water Board
#1-4905 48th Street
Yellowknife, NT
X1A 3S3

Dear Mr. Mackenzie,

**Re: Community Government of Behchoko
Water Licence - W2014L3-0002
Solid Waste Facility Closure and Reclamation Plan - Version 2.0
Request for Review and Comments**

The Department of Environment and Natural Resources, Government of the Northwest Territories has reviewed the plan at reference based on its mandated responsibilities under the *Waters Act*, the *Species at Risk (NWT) Act* and the *Wildlife Act* and provides the following comments and recommendations for the consideration of the Board.

Topic 1: SNP Revision Required and Unspecified SNP Location

Comment(s):

Information provided within the submitted March 2014 Closure and Reclamation Plan (CRP Ver. 2) is referring to the former SNP naming convention, found in the old Water Licence (MV2003L3-0010). As such, Section 5.2 (Page 28) of the CRP Ver. 2, specifies that: "The SNP location 0041-R8 is described as collecting runoff from *the existing* solid waste facility (shown on Drawing 02)."

As per pages 25 & 26 of the latest Water Licence W2014L3-0002 issued in November 2014, this is no longer accurate as SNP 2014-R5 is identified as the monitoring station assigned to the former Solid Waste Disposal Facility (SWDF). SNP stations 2014-R6, 2014-R7, 2014-R8, 2014-R9 and 2014-R10 were all assigned to the *new* SWDF.

Furthermore, and contrary to the information specified in Section 5.2 of the March

2014 CRP Ver. 2, no SNP details/information could be located on both versions of Drawing no. 2 (in the March 2014 CRP Ver.2, and provided with Blue Metric November 2020's memo). Also, details on the monitoring station assigned for the monitoring of the former SWDF could not be located on any of the drawings submitted.

Recommendation(s):

- 1) ENR recommends that the Water Licence file number and SNP information provided in the Community Government of Behchoko CRP (Section 5.2, and elsewhere) be updated to reflect the current Water Licence file number and SNP naming conventions and descriptions, as outlined in Behchoko Water Licence (W2014L3-0002).
- 2) ENR recommends that the exact monitoring location for SNP 2014-R5, assigned for the monitoring of the former SWDF, be clearly outlined on a revised Drawing No. 2.
- 3) ENR recommends that the Community Government of Behchoko discuss (with associated rationale or evidence) if runoff captured by SNP 2014-R5 for the former SWDF may also possibly be capturing some of the runoff from the new SWDF, located adjacent to the former SWDF.

Topic 2: Closure and Reclamation Plan - Version Number and Date

Comment(s):

In response to delays experienced for the construction of the new SWDF (weather issues, operational challenges and sourcing of appropriate material), the former SWDF remained in operation until September 2019. As such closure activities initially planned in the March, 2014 CRP Ver 2 were delayed, and reported in the summer of 2021.

In lieu of submitting an updated CRP version, the approved March, 2014 CRP Ver. 2 was re-submitted as such, with a memo introduction letter from Blue Metric Environmental outlining sections and drawings of the CRP Ver. 2 that are no longer accurate (Section 2.2, 2.3, 4.1, 4.4, Drawings No. 2, 3, 4 and 5), along with the revised information.

ENR notes that under the water licencing process, proponents are typically required to incorporate revisions within an updated plan version that is subsequently submitted to the Board. All revisions made in a newer version are also typically listed/compiled (with a brief description and associated page number(s) where

each change was made), in a revision Table located in the introductory section of the new updated plan. This allows regrouping all current information in one place, minimizing back and forth that would otherwise be necessary between the revised submitted sections and the former version of a plan.

Recommendation(s):

- 1) To prevent confusion, and keep all necessary updated information in one place, ENR recommends that updated sections and drawings, as enumerated here in comments above, be inserted in a separate updated new version of the CRP (likely version 3), along with the associated current date.

Topic 3: Area of Stagnant Poned Water, Adjacent to the Northwest Corner

Comment(s):

As specified in the November 2020 Blue Metric memo (Page 3 of 39), a new area of stagnant ponded water was observed based on a site reconnaissance, conducted since the March 2014 CRP Ver. 2 was prepared, and directly adjacent to the northwest corner of the SWDF. It would appear that the new ponded area is not indicated on the updated drawings submitted with Blue Metric memo, as all 'water bodies' identified in both older and recent Drawings versions appear to be the same.

Section 3.5 of the CRP Ver. 2 specifies that prior to the closure of the SWDF, the Community will be required to consolidate and remove any materials that have been segregated, such as scrap metal (Section 3.5.2) and white goods/bulky wastes (Section 3.5.3).

Following review of all information submitted with/in the CRP and the SWDF O&M Plan, in order to identify where at the site each specific types of wastes were managed/landfilled during the operating life of the former SWDF, ENR was not able to locate this information.

Prior to applying a final cover over the former Behchokø SWDF, ENR is of the opinion that it is important that each old SWDF area be clearly identified and outlined (i.e., each type of waste managed and associated area).

Recommendation(s):

- 1) ENR recommends that the Community Government of Behchoko indicate the location of the newly identified ponding area at the former SWDF. If not already indicated on the map. ENR further recommends that this area be indicated in an updated Drawing No. 2 version.

2) ENR recommends that a drawing be added to the CRP, prior to closure of the former SWDF, in order to represent the various wastes management/landfilling areas (and associated perimeter) used during the operating life of the former SWDF, prior to applying the final cover over the entire SWDF footprint.

Comments and recommendations were provided by ENR technical experts in the Water Management and Monitoring Division and the North Slave Region and were coordinated and collated by the Environmental Assessment and Monitoring Section (EAM), Environmental Stewardship and Climate Change Division.

Should you have any questions or concerns, please do not hesitate to contact Patrick Clancy, Environmental Regulatory Analyst at (867) 767-9233 Ext: 53096 or email patrick.clancy@gov.nt.ca.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Clancy', written in a cursive style.

Patrick Clancy
Environmental Regulatory Analyst
Environmental Assessment and Monitoring Section
Environmental Stewardship and Climate Change Division
Department of Environment and Natural Resources
Government of the Northwest Territories



COMMUNITY GOVERNMENT OF BEHCHOKÒ

PO Box 68, Behchokò, Northwest Territories

Phone: 867.392.6500 • Fax: 867.392.6139

Thursday, February 4, 2021

RE: Photos of existing conditions

Former Landfill 1



Former Landfill (Metal Scrap Pile)



Entire Former Landfill



Former Landfill (Vehicles)



Former Landfill (Tires)



Distribution List

Community Government of Behchoko - Solid Waste Facility - Closure and Reclamation Plan - Version 2.0 (W2014L3-0002)

File(s): W2014L3-0002

Proponent: Community Government of Behchoko

Reviewer Comments Due By: Jan 21, 2021

Proponent Comments Due By: Feb 4, 2021

Document(s)

SWF Closure and Reclamation Plan - Version 2.0

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