Bajwa, Mehak

From:	Doug Dolby <ddolby@enviro-solutions.ca></ddolby@enviro-solutions.ca>
Sent:	April 7, 2025 11:27 AM
То:	Bajwa, Mehak; dan
Cc:	Dey, Asit; Edossa, Desalegn; Hasti Shwan; Tim@MWM
Subject:	RE: File No. 5818.00_ MWM environmental leachate pond
Attachments:	Final Drawings - MWM Souris Leachate Pond Design (Sheet 102) April 2024.pdf; Final
	Drawings - MWM Souris Leachate Pond Design (Sheet 103) April 2024.pdf

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Good morning Mehak,

I hope this email finds you well and thank you for the update on the status of the approval letter and clarification questions.

On behalf of our client, Municipal Waste Management Ltd. (MWM Environmental), we offer the following responses to your queries regarding the proposed liner type:

1. Mention the liner type i.e., in-situ clay liner or compacted clay liner

For your reference, our submission document entitled *New Leachate Evaporation Pond – Design Drawings, Municipal Waste Management Ltd. SW35-8-21 W Landfill, Licence No. 3181, Municipality of Souris-Glenwood, Manitoba,* dated April 30, 2024 within subsection <u>Geotechnical Soil Information and Facility Location</u> states "The proposed leachate evaporation pond will be constructed with a clay liner and/or scarified in-situ clay, as described in Clauses 39 to 43 of Licence No. 3181". Furthermore, the liner type specified on the engineered drawings for the leachate pond is to be compacted clay. The base of the leachate evaporation pond is designed to be scarified to a depth of 1.0 meter and compacted to a minimum of 95% Standard Proctor Density. This is proposed and illustrated on Sheet 4 of 4 NOTES: (Drawing No. 103, Revision 2, dated April 30, 2024).

2. The extent and continuity of the liner through the entire cell including the cell floor and cell slope/berm walls

Yes. As can be seen on Drawing 102, Revision 2, dated April 30, 2024 the compacted clay liner extends continuously to the inside crest of the berms. These design requirements are illustrated on Sheet 3 and 4 of 4.

We trust that the above information and the attached Drawings No. 102 and 103 are sufficient to finalize the approval letter and issue to our client MWM Environmental. If you have any further queries, please contact either Dan Mauws or myself.

All the best.

Doug Dolby, Dipl. T. Env. Environmental Specialist

Environmental Consulting Solutions

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From: Bajwa, Mehak <Mehak.Bajwa@gov.mb.ca> Sent: April 2, 2025 1:47 PM To: dan <dan@mwmenviro.ca> Cc: Dey, Asit <Asit.Dey@gov.mb.ca>; Edossa, Desalegn <Desalegn.Edossa@gov.mb.ca>; Doug Dolby <DDolby@envirosolutions.ca> Subject: File No. 5818.00 MWM environmental leachate pond

Good afternoon Dan,

The approval letter has already been drafted, but the design drawing is missing two key details about the clay liner. Could you please update the engineering drawing with the following information and send it to me as soon as possible:

- 1. mention the liner type i.e. in-situ clay liner or compacted clay liner; and
- 2. the extent and continuity of the liner through the entire cell including the cell floor and cell slope/ berm walls.

Please let me know if you have any further questions regarding this request.

Thank you.

Regards, **Mehak Bajwa,** P.Eng, M.Eng Senior Environmental Engineer Environmental Approvals Branch Department of Environment and Climate Change 14 Fultz Blvd, Winnipeg, MB R3Y 0L6 **Phone**:431-334-3667, **Email**: mehak.bajwa@gov.mb.ca

From: dan <<u>dan@mwmenviro.ca</u>> Sent: March 26, 2025 2:51 PM To: Bajwa, Mehak <<u>Mehak.Bajwa@gov.mb.ca</u>> Subject: MWM environmental leachate pond

Hi Mehak

I am inquiring on the status of the assessment on our leachate pond project.

On September 13th 2024 you mentioned in an email it would be about 2-3 weeks.

I would like to know how soon we will be able to proceed with this project as it is an important one for us. Thanks

Dan Mauws

General Manager

MWM Environmental Souris | Portage La Prairie | Brandon

Phone: 204 483-3986 Direct: 431-541-8256

Web: MWMEnviro.ca





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NOTES

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- 3. THE DRAWING IS PROVIDED TO THE CLIENT FOR PLANNING PURPOSES AND MUST NOT BE USED FOR CONSTRUCTION.
- 4. DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.
- 5. INFERRED WATER LEVEL EL. = 441.3 m.



DATE: 2024/04/29 G:\Shared drives\Esker Consulting\2023-008 Souris WDG Leachate Cell\Design\Production Dwgs\103 - Details

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- 4. THE DRAWING IS PROVIDED TO THE CLIENT FOR PLANNING PURPOSES AND MUST NOT BE USED FOR CONSTRUCTION.
- 5. DIMENSIONS IN METERS UNLESS OTHERWISE SHOWN.
- 6. ELEVATIONS SUBJECT TO CHANGE OR ADJUSTMENT.
- LEACHATE EVAPORATION POND BASE AND INTERIOR OF THE BERMS SHALL BE LINED WITH 1000 mm OF CLAY COMPACTED TO MINIMUM 95% S.P.D. ON MAXIMUM LIFTS OF 150 mm.
- 8. BASE OF LEACHATE POND UPPER 150 mm MAY BE SCARIFIED AND COMPACTED IF AT LEAST 1000 mm OF CLAY HAS HYDRAULIC CONDUCTIVITY LESS THAN 1 x 10⁻⁷ cm/s.

LEGEND



COMPACTED CLAY SOIL TO MIN. 95% S.P.D. (STANDARD PROCTOR DENSITY)

PREPARED SUBGRADE (NON-ORGANIC)



COMMON FILL

GRANULAR ROAD AGGREGATE OR DRAINAGE GRAVEL (20 mm - 40 mm Ø STONE OR APPROVED MATERIAL)

	PROJECT NUMBER	
	200-2020-000	
MWM LICENSE NO. 3181, SW 35-08-21 WPM	SHEET 4 OF 4	
MUNICIPALITY OF SOURIS - GLENWOOD, MANITOBA		
AWING TITLE	SHEET NUMBER	
DETAILS	103	