

Boissevain Aerated Wastewater Treatment Lagoon Upgrade EAP – TAC Comments

Below is a list of Technical Advisory Committee (TAC) comments regarding the Boissevain aerated wastewater treatment Environment Act Proposal (File No. 6133.00), for distribution to the public registry.

- January 21, 2022 email from Drainage and Water Rights Licensing Branch, Environment, Climate and Parks, 1 page
- December 17, 2021 email from Wildlife Fisheries and Resource Enforcement Branch, Conservation and Climate, 1 page
- December 17, 2021 email from Environmental Programs and Remediation Branch, Conservation and Climate, 1 page
- December 16, 2021 email from Manitoba Infrastructure, 1 page
- December 15, 2021 email from Groundwater Management Section of Water Branch, Agriculture and Resource Development, 1 page
- December 13, 2021 memorandum from Land Use, Waste Management & Energy Section of Environmental Approvals, Conservation and Climate, 1 page
- December 10, 2021 email from Mining, Oil and Gas Branch, Agriculture and Resource Development, 1 page
- December 10, 2021 memorandum from Water Quality Management Section of Water Branch, Agriculture and Resource Development, 2 pages
- November 30, 2021 email from Forestry and Peatlands Branch, Agriculture and Resource Development, 1 page
- November 30, 2021 email with attachments from Historic Resources Branch, Sport, Culture and Heritage, 2 pages
- November 29, 2021 email from Mining, Oil and Gas Branch, Agriculture and Resource Development, 1 page
- November 29, 2021 email from Community and Regional Planning Branch, Municipal Relations, 2 pages
- November 26, 2021 email from Office of Drinking Branch, Conservation and Climate, 1 page
- November 26, 2021 email from Lands Branch, Agriculture and Resources Development, 1 page

18 pages total, including this page

Bereket Assefa, Ph.D., P. Eng.

January 28, 2022

Assefa, Bereket (CC)

From: Hay, David (CC)
Sent: January 21, 2022 2:49 PM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Bereket,

Manitoba adopted the concept of no net loss of wetland benefits to formally recognize wetland protection in October 2019. Semi-permanent (Class 4) and permanent (Class 5) wetlands are protected whether the drainage would be accomplished by ditching, filling, subsurface drainage works, pumping or other means unless impact to the wetland are unavoidable and there is a broader societal benefit. Broader societal benefit includes the construction of flood infrastructure, provincial transportation or hydroelectric utility corridor. This type of development would not qualify for an exemption as outlined above.

Under The Water Rights Act and the Water Rights Regulation, Class 3 (seasonal) wetlands are eligible for drainage through authorization by a water control works licence. A proponent must also demonstrate their use of the mitigation process including how all options to avoid and minimize impacts to the wetland have been considered. Any proposed loss of wetland benefits must be offset by compensation for lost acres of wetlands as required by The Water Rights Act and the Water Rights Regulation as set out in Schedule D.

The Drainage and Water Rights Licensing Branch verified the presence of seasonal and semi-permanent wetlands on this property in 2010. The proponent should conduct a wetland assessment to ensure that seasonal, semi-permanent and permanent wetlands are not impacted with the development. Given this assessment, it may be possible to integrate existing semi-permanent and permanent wetlands by shifting the location of the proposed development to avoid semi-permanent and permanent wetlands with compensation being provided to offset the drainage of seasonal wetlands.

In addition, the department issued Water Control Works Licence 13-WCW-0368 to construct, establish, operate and maintain field drainage channels and water control structures on May 8, 2013 on adjacent lands. As this proposal is within this drainage area, approval should also be sought from the Orthez Channel Committee (Dennis Hildebrand - committee chair).

David Hay

A/Director, Drainage and Water Rights Licensing Branch
Manitoba Environment, Climate and Parks
David.Hay@gov.mb.ca / Tel: 204-945-7096 / Cel: 204-792-3607
200 Saulteaux Crescent, Winnipeg, MB R3J 3W3

Facts are key in the fight against COVID-19, visit [Manitoba.ca/covid-19](https://www.manitoba.ca/covid-19)

From: Nicklin, Darren (CC) <Darren.Nicklin@gov.mb.ca>
Sent: November 26, 2021 10:46 AM
To: Assefa, Bereket (CC) <Bereket.Assefa@gov.mb.ca>
Subject: FW: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Any proposed water control works would have to be incorporated into the EA license with standard conditions being applied.

Assefa, Bereket (CC)

From: Kiss, Brian (ARD)
Sent: December 17, 2021 3:42 PM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

No wildlife related concerns.

-Brian Kiss

Assefa, Bereket (CC)

From: Popowich, Matt (CC)
Sent: December 17, 2021 2:57 PM
To: Assefa, Bereket (CC)
Cc: Christie, Rhian (CC); Jaques, Jessica (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Hello Bereket,

The Environmental Programs and Remediation branch does not have any comments to provide in regards to this Environment Act proposal.

Regards,

Matt Popowich

Senior Policy Analyst
Waste Diversion and Recycling Unit
Environmental Programs and Remediation Branch
Manitoba Conservation and Climate
200 Saulteaux Crescent, Winnipeg, MB R3J 3W3
Ph: 204-914-3516
Email: matt.popowich@gov.mb.ca

Assefa, Bereket (CC)

From: +WPG969 - MIT Environmental Services Section (MI)
Sent: December 16, 2021 2:39 PM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Good afternoon,

Please see response from the following MI branches/sections:

- Water Management, Planning and Standards:
No concern
- Western Regional Operations:
Of note, the proposed upgrade includes adding an additional forcemain line that will cross under PR 448. As such, under the Transportation Infrastructure Act a utility permission to install the forcemain under and across PR 448 is required. Information regarding the utility permission process, fees and how to apply can be found at the following link: [Highway Planning and Design | Manitoba Infrastructure | Province of Manitoba \(gov.mb.ca\)](https://www.gov.mb.ca/transportation-infrastructure/)
- Roadside Development:
Please note the following statutory requirements affecting PTH 10 and PR 448.

Statutory Requirements:

Under the Transportation Infrastructure Act, a permit is required from Manitoba Infrastructure to construct, modify, relocate, remove or intensify the use of an access. A permit is also required from Manitoba Infrastructure to construct, modify, remove or relocate a structure or sign, or to change or intensify the use of an existing structure (including the alteration of existing buildings) within the **76.2m m** (350 ft) controlled area from the edge of the PTH 10 highway right-of-way and within the **38.1 m** (125 ft) controlled area from the edge of the PR 448 highway right-of-way.

In addition, a permit is required from the Manitoba Infrastructure for any planting placed within **15 m** (50 ft) from the edge of the right-of-way of this highway.

Thank you very much for the opportunity to review and comment.

Assefa, Bereket (CC)

From: Wang, Zijian (ARD)
Sent: December 15, 2021 11:54 AM
To: Assefa, Bereket (CC)
Cc: Phipps, Graham (ARD)
Subject: Re: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Good morning Bereket,

The Groundwater Management Section has reviewed the proposal entitled “Application for an Environmental Act Licence for an Aerated Lagoon with Post Lagoon Nitrification Wastewater Treatment System for the Community of Boissevain”, dated April 19, 2021.

Legislation/Concern:

Under item #4 of Mitigation and Residual Effects - Information Bulletin – Environment Act Proposals for Wastewater Treatment Facilities – Supplementary Guidelines, the follow up monitoring plan of the site groundwater protection was not discussed in this proposal. Concern: The 3-m test holes conducted in November 2020 are insufficiently deep to profile the soil character that could detain the contaminants via vertical percolation; also in light agricultural regions of Manitoba, the groundwater level is observed relatively low in November, thus “no evidence of a high groundwater table at the time of drilling” is not evident to conclude the GW condition during summer operation. A GW monitoring plan is recommended in our opinion.

Thank you,

Zijian Wang, M.Sc., P.Eng
Aquifer Sustainability Hydrogeologist
18-200 Saulteaux Cres.
Winnipeg, MB R3J 3W3
Work (431) 374-4243

DATE: December 13, 2021

TO: Bereket Assefa, Ph.D., P. Eng.
Senior Environmental Engineer
Environmental Approvals Branch
Manitoba Conservation and Climate
1007 Century Street
Winnipeg MB R3H 0W4
Bereket.Assefa@gov.mb.ca

FROM: Asit Dey, P.Eng.
Acting Engineering Manager
Land Use, Waste Management & Energy
Section (LWES)
Environmental Approvals Branch
Environmental Stewardship Division
Manitoba Conservation and Climate
1007 Century Street
Winnipeg MB R3H 0W4

PHONE NO.: 204-794-3389

FAX NO.: 204-945-5229

E-MAIL: Asit.Dey@gov.mb.ca

FILE NO.: 6133.00

**SUBJECT: File 6133.00 - Municipality of Boissevain-Morton – Boissevain Aerated
Wastewater Treatment Lagoon With Nitrification- SE 11-04-20 W**

Further to your email correspondence dated November 25, 2021, the LWES has reviewed the above Environment Act Proposal proposed to be developed at the above noted location.

The proposed project is not in an area of water power interest. Therefore, the Energy program area of LWES does not have concerns for this proposal.

ORIGINAL SIGNED BY

Asit Dey

Assefa, Bereket (CC)

From: +WPG1195 - Mines BR (ARD)
Sent: December 10, 2021 2:07 PM
To: Assefa, Bereket (CC)
Cc: Mraz, Peter (ARD)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Hi Bereket,

Mining, Oil and Gas has no concerns, as there is no current or previous mine, quarry or oil well activity on or adjacent to this section.

Tim Davis
GIS Specialist
Mineral Tenure and Regulatory Services, ARD
Tim.davis@gov.mb.ca
360-1395 Ellice Ave, Winnipeg, MB
(204) 945-6525

DATE: December 10, 2021

TO: Bereket Assefa
 Environmental Approvals Branch
 1007 Century St, Winnipeg, MB
 R3H 0W4

FROM: Joy Kennedy
 Water Quality Management Section
 Manitoba Agriculture and Resource
 Development
 Box 14, 200 Saulteaux Crescent
 Winnipeg, Manitoba R3J 3W3
 PHONE NO.: 204-945-7908

cc.

SUBJECT: BOISSEVAIN AERATED WASTEWATER TREATMENT LAGOON WITH NITRIFICATION
 MUNICIPALITY OF BOISSEVAIN-MORTON FILE: 6133.00

- The following effluent standards must be applied to Boissevain wastewater treatment lagoon as per the Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011).
 - BOD5 25 mg/L,
 - TSS 25 mg/L,
 - Fecal Coliforms or *Escherichia coli* 200 organisms / 100mL,
 - <1 mg/L Total Phosphorous
 - Ammonia-N, (effluent pH based)

Effluent pH	Effluent, Total Ammonia expressed as N (mg/L)
6.50	48.83
6.60	46.84
6.70	44.57
6.80	42.00
6.90	39.16
7.00	36.09
7.10	32.86
7.20	29.54
7.30	26.21
7.40	22.97
7.50	19.89
7.60	17.03
7.70	14.44
7.80	12.14
7.90	10.13
8.00	8.41
8.10	6.95
8.20	5.73
8.30	4.71
8.40	3.88
8.50	3.20
8.60	2.65
8.70	2.20
8.80	1.84
8.90	1.56
9.00	1.32

- The Water Quality Management Section is concerned with any discharges that have the potential to impact the aquatic environment and/or restrict present and future uses of the water. Therefore it is recommended that the license require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

Sincerely,

Joy Kennedy

Assefa, Bereket (CC)

From: Porteous, Marianne (ARD)
Sent: November 30, 2021 12:50 PM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Hello,

No concerns from the Forestry and Peatlands Branch.

Marianne

Assefa, Bereket (CC)

From: +WPG574 - HRB Archaeology (SCH)
Sent: November 30, 2021 11:27 AM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021
Attachments: AAS-21-17771_MCC_EAB_6133_Boissevain_Lagoon.pdf; HRB Archaeological Consultants List updated Feb 2021.pdf; Basic HRPP Guidelines Key Questions and Protocols to Consider_V2.zip; Policy - Human Remains (2006).zipx

Hi Bereket,

Please see the attached memo for our review. The applicant had previously submitted for heritage resource screening in March 2021, and we identified concerns to impact heritage resources at that time. This memo is just reiterating that previous review as an HRIA has not yet been completed for this project.

Reid Graham

Impact Assessment Archaeologist | *Archéologue d'évaluation d'impact*
Archaeological Assessment Services Unit | *Section des services d'évaluation archéologique*
Historic Resources Branch | *Direction des ressources historiques*
Manitoba Sport, Culture and Heritage | *Ministère du Sport, Culture et Patrimoine*
213 Notre Dame Avenue, Main Floor | Winnipeg, MB | R3B 1N3
Reid.Graham@gov.mb.ca
c. 204-451-7034 (0830-1630, M-F)

DATE: 2021-11-30

TO: **Bereket ASSEFA**
Senior Environmental Engineer
Environmental Approvals Branch
Manitoba Conservation and Climate
1007 Century Street
Winnipeg, Mb R3H 0W4

FROM: **Reid Graham**
Impact Assessment Archaeologist
Archaeological Assessment Services Unit
Historic Resources Branch
Main Floor – 213 Notre Dame Avenue
Winnipeg, MB R3B 1N3

T: (204) 945-2118
C: (204)-451-7034
F: (204) 948-2384
e: Reid.Graham@gov.mb.ca

SUBJECT: **EAP File 6133.00 – Boissevain Aerated Wastewater Treatment Lagoon**
HRB File #: AAS-21-17771 (Previous AAS-20-16704)

Concerns

Further to your e-mail regarding the above noted heritage screening, the Manitoba Historic Resources Branch (HRB) has examined the location in conjunction with Branch records for areas of potential concern. The development footprint is located in an area with knob-and-kettle terrain, in close proximity to known Precontact archaeological sites. These factors, to name a few, suggest that any future planned development within the area has the potential to impact heritage resources, therefore, the Historic Resources Branch has concerns.

Under Section 12(2) of The Heritage Resources Act, if there is reason to believe that heritage resources or human remains are known, or thought likely to be present, on lands that are to be damaged or destroyed by reason of any work, activity, or project that is being proposed to carried out, then the proponent is required to conduct at his/her own expense, a heritage resource impact assessment (HRIA) and mitigation, if necessary, prior to the project's start

The developer must contract a qualified archaeological consultant to conduct a Heritage Resources Impact assessment (HRIA) of the proposed development location, in order to identify and assess any heritage resources that may be negatively impacted by development.

This project was previously reviewed under AAS-20-16704 on March 12th, 2021, which identified concerns to impact Heritage Resources. Based on this previous review, the applicant identified that an HRIA would be required for this project under EAP 6133.00. The Branch will continue to work with the developer and their chosen heritage consultant to draw up the terms of reference for this project.

If you have any further questions or comments, please feel free to contact the Branch as above.

Historic Resources Branch
Archaeological Assessment Services Unit

Enclosures

Heritage Consultant List
Template for Heritage Resource Protection Plan
Fact Sheet on Human Remains

Assefa, Bereket (CC)

From: Leonen, Leonardo (ARD)
Sent: November 29, 2021 12:52 PM
To: Assefa, Bereket (CC)
Cc: Mraz, Peter (ARD); Williams, Lisa (ARD)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Good morning Bereket,

There are no known Petroleum Deposits or infrastructure in the area and therefore Petroleum has no concerns.

Leo

Assefa, Bereket (CC)

From: Andersen, Peter (MR)
Sent: November 29, 2021 12:38 PM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – File 6133.00

Good Morning;

Please be advised that the Brandon Community Planning Office has reviewed the above referenced proposal concerning the development of a new two cell municipal wastewater treatment facility in the Municipality of Boissevain-Morton in Pt. SE11-4-20WPM. Our office has no concerns with the proposed scope of work but note for your information that the proponent must first obtain a conditional use order and a development permit from Council prior to the commencement of development. As information and for your review and consideration, please be advised of the following:

All development in the Municipality of Boissevain-Morton is subject to the requirements of the Morton-Boissevain Planning District Development Plan By-law 2009-01 and the Municipality of Boissevain-Morton Zoning By-law No. 2019-03.

According to [The Morton-Boissevain District Development Plan By-law 2009-01](#), the subject lands are designated “AA” Agricultural General Area.

[PART 2, Policy 2.3.3 Utilities Policies](#) states the following:

- “1. *With the exception of Wind Farms, which are dealt with in Part 3 - Rural Areas, essential activities of government and public and private utilities shall be permitted in any land use designation, subject to requirements in the Morton and Boissevain zoning by-laws. Such uses should be located and developed in a manner which will minimize any incompatibility with neighbouring land uses.*
2. *Cooperation will be encouraged with Manitoba Hydro, Manitoba TeleCom Services and other similar utilities to ensure the provision of their services in the most economical and efficient manner possible and to minimize conflict with the orderly provision of municipal sewer, water and roadway services.*
3. *Existing public and private utilities should be protected from incompatible land uses which may threaten or adversely affect their operation.*
4. *Cooperative and inter-municipal servicing initiatives will be encouraged.”*

According to the [Boissevain-Morton Municipal Zoning By-law No. 2019-03](#), the subject lands are zoned “AG” – Agriculture General Area. [PART 2, Table 3.2 of the by-law](#) identifies “Sewage Lagoons” as being a conditional use so a [public hearing and issuance of a conditional use permit and development permit will be required prior to the commencement of development.](#)

[PART 2, Section 2.25 a\) Public Utilities](#) of the Boissevain-Morton Municipal Zoning By-law states the following:

- a) *“This by-law shall be interpreted so as not to interfere with the construction, erection and location of a public utility’s works, plant, pipes, cables, or equipment as defined in this by-law provided that the requirements of such public utility are of a standard compatible with the adjacent area, and that any building or structure erected in any zone complies with the required yard and area requirements applicable to the zone.*
- b) *Where a public utility (as defined in this By-law) of another municipality is proposed to be located within Municipality of Boissevain-Morton, it shall first apply to Boissevain-Morton Municipality for approval prior to the commencement of development.*
- c) *The use and bulk requirements of this by-law do not apply to the transmission facilities (wires, pipes, poles and associated equipment such as transformers and sub-stations) of a public utility as defined herein as equipment such as this may require only very small parcels or none at all (where easements are used).*
- d) *All office buildings, warehouse facilities and storage compounds owned or used by any public utility or public works shall be subject to all of the provisions of this By-law.*
- e) *Where any site requirement, including site area, site width, required yard or parking, is reduced below the requirements of this By-law as a result of land acquired for any street, lane, public utility, public works, public park area or public monument, it shall be deemed to conform to the requirements of this By-law.”*

Regards,

Peter Andersen
Community Planner
Manitoba Municipal Relations
Unit 1B – 2010 Currie Blvd.
Brandon, Manitoba R7B-4E7

Phone: (204) 726-7414
Peter.Andersen@gov.mb.ca

From: +BRA993 - Brandon CRP (MR) <BrandonCRP@gov.mb.ca>
Sent: November-25-21 4:28 PM
To: Andersen, Peter (MR) <Peter.Andersen@gov.mb.ca>
Subject: FW: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Assefa, Bereket (CC)

From: +WPG530 - Drinking Water - Approvals (CC)
Sent: November 26, 2021 11:07 AM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

No concerns.
Office of Drinking Water (ODW)

(Notice: due to COVID, I will be working out-of-office, and expect potential delays in responses and processing times. Thanks.)

Cory Vitt, CMMA M.Eng. P.Eng.

(pronouns: they/them; please don't use "Mr. Vitt")

Approvals Engineer
Office of Drinking Water
Department of Conservation and Climate
1007 Century Street
Winnipeg, Manitoba R3H 0W4
Cell: 204-806-1363
Email: Cory.Vitt@gov.mb.ca

Assefa, Bereket (CC)

From: Kopytko, Myles (ARD)
Sent: November 26, 2021 10:15 AM
To: Assefa, Bereket (CC)
Subject: RE: Request for Review/Comment - Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Encumbrance Type: N/A

Encumbrance ID: N/A

Subject Matter Reference (non CLA): Environment Act Proposal – - File 6133.00 - Due Dec. 17, 2021

Date: November 26, 2021

Responding Area: Lands Branch

Contact name: Myles Kopytko

Crown Land Management Specialist

Contact number: 204-761-7538

Response type:

- No concerns
- Approved with conditions
- Denial recommended with reasons
- Not applicable/designated area (not under The Crown Lands Act) see referral section

Conditions or Reasons for Denial must be defensible based on policy (indicate) or long established practice (expect content may be provided to the proponent or posted on a public registry):

Other advice for proponents may include resource staff contact information, etc...(expect content may be provided to the proponent or posted on a public registry):

Myles Kopytko

Lands Branch, Ecosystems Management Division
Agriculture and Resource Development
1129 Queens Ave. Brandon, Manitoba, Canada R7A 1L9
Myles.Kopytko@gov.mb.ca
T: 204-761-7538 F:204-726-6301