

Webb, Bruce (CWS)

To: Steele, Tania (CWS)
Subject: Town of Beausejour Wastewater Treatment Lagoon Expansion File: 37.30

The attached material can be placed in the public registries for the above project:

Request for additional information: email to J. R. Cousin Consultants Ltd., December 19, 2013.

Public Comments: None received

Technical Advisory Committee Comments: (11 pages)

Manitoba Conservation and Water Stewardship - Environmental Compliance and Enforcement Branch, October 18, 2013

Manitoba Conservation and Water Stewardship - Watersheds and Protected Areas Branch and Lands Branch, October 16, 2013

Manitoba Conservation and Water Stewardship - Parks and Natural Areas Branch, September 30, 2013

Manitoba Conservation and Water Stewardship – Wildlife Branch, October 15, 2013

Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Water Quality Management Section, October 18, 2013

Manitoba Conservation and Water Stewardship – Fisheries Branch, October 27, 2013

Manitoba Conservation and Water Stewardship – Water Use Licensing Section, September 13, 2013

Manitoba Infrastructure and Transportation - Highway Planning and Design Branch, Environmental Services Section, October 4, 2013

Manitoba Local Government – Community and Regional Planning Branch, October 18, 2013

Office of the Fire Commissioner, October 15, 2013

Bruce.

Webb, Bruce (CWS)

From: Webb, Bruce (CWS)
Sent: December-19-13 9:49 AM
To: 'Brett McCormac'
Cc: 'Jerry Cousin'
Subject: Town of Beausejour Wastewater Treatment Lagoon Expansion File: 37.30

All comments received on the above proposal have now been reviewed. No public comments were received. The only concern from the Technical Advisory Committee that requires additional information involves the projected hydraulic loading for the facility. Both the per capita water consumption (357 L/day) and the average and maximum infiltration estimates (198 L/person/day and 381 L/person/day respectively) are excessive, leading to an unusually large hydraulic storage requirement for a community of this size. Extraordinarily high wastewater generation has been identified as a problem for several years, and the proposal does not discuss measures to reduce per capita consumption or infiltration.

A discussion is needed on planned water conservation measures, and/or other measures that will be undertaken to reduce per capita water consumption to rates more appropriate for a community of this size and economic base.

A discussion is also needed on planned measures to reduce the very high infiltration volumes into the wastewater collection system.

If these discussions cannot be prepared before the late winter of 2014, we are prepared to issue an Environment Act Licence for the project as proposed, with a requirement to file a report on these matters by a specified date. However, in this event, it is probable that reduction targets will be included as licence conditions, as well as implementation timelines. If reasonable wastewater reduction volumes can be projected in these discussions before a licence is needed for construction, we would be prepared to issue a licence that enables the construction of the new cells over time as they are needed, so that some construction costs could be deferred into the future.

The following Technical Advisory Committee comments are provided for information; no response is needed for these items:

Manitoba Infrastructure and Transportation – Highway Planning and Design Branch, Environmental Services Section

- The proposed project may require a permit from the Highway Traffic Board for any new, modified or relocated access connection onto PTH 12 or PTH 44. A permit may also be required for:
 - o any construction, above or below ground level, within 38.1 m (125 ft) from the edge of the right of way of any PTH;
 - o any plantings within 15.2 m (50 ft) from the edge of the right of way of any PTH; or
 - o discharge of water or other liquid materials into the ditch of any PTH.
- Should any of the water/sewer lines cross under or within the right of way of PTH 12 or PTH 44, an agreement with MIT will be required.
- Should any service road needs to be constructed or extended, it will be at the cost of the RM and not MIT.

The contact person for these matters is Joelle Coulombe (Joelle.Coulombe@gov.mb.ca)

Manitoba Local Government – Community and Regional Planning Branch, Beausejour Regional Office

A review of the Brokenhead River Planning District Development Plan has determined that there are no policies in the Development Plan that would directly apply to the proposed lagoon expansion.

Section 3.3.8 of the Rural Municipality of Brokenhead Zoning By-law No. 1688 states that nothing in that by-law shall be so interpreted as to interfere with the construction, maintenance, and operation of the facilities of any public utility, provided that the requirements of such public utility is of a standard compatible with the adjacent area as determined by the Development Officer.

We therefore have no concerns with the proposed lagoon expansion. We do recommend that the applicant contact the Development Officer of the Brokenhead River Planning District to ensure that he has determined that the proposed development is of a standard compatible with the adjacent areas.

Bruce.

DATE: October 18, 2013

TO: Bruce Webb, Environmental ^{BW}
Engineer
Environmental Approvals (Box 80)
Conservation and Water Stewardship
123 Main Street
Winnipeg MB R3C 1A5

FROM: Environmental Compliance and
Enforcement
Conservation and Water Stewardship
Box 4000
Lac du Bonnet MB R0E 1A0

SUBJECT: EAP – Town of Beausejour Wastewater Treatment Lagoon Expansion (File No. 37.30)

Environmental Compliance and Enforcement (Eastern Region) has reviewed the above Environment Act Proposal (EAP) for the expansion of the Town of Beausejour wastewater treatment lagoon, including the construction of three secondary cells. The following comments are submitted:

- **2.5.5 Population Contributing Effluent**

The Town of Beausejour hosts several major annual sporting and community events, which result in population influxes in the community at various times throughout the year. In addition to the contributing sources referenced in the EAP, has the proponent considered the significance of these events as contributors to the wastewater production rate?

- **2.5.6.2 Hydraulic Loading**

The EAP states that *"The Town of Beausejour has significant infiltration into their gravity sewer system which results in a much higher per capita wastewater production rate than normal."* Specifically, the EAP indicates that the average rate of infiltration between 2005 and 2011 was 3.7 times greater than the "typical" design value of 15% of the water consumption.

The EAP references a May 2011 report entitled *An Assessment of Sanitary Sewer Piping for Lift Station #4 and #6 Catchment Area*, which identifies sources of infiltration. However, it is unclear what measures have been taken to address infiltration since the release of the report.

The Town of Beausejour is strongly encouraged to implement strategies to reduce infiltration into the wastewater collection system to eliminate unnecessary hydraulic loading of the lagoon and to minimize discharges of effluent to the environment.

Webb, Bruce (CWS)

From: Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation_Circulars (CWS)
Sent: October-16-13 2:28 PM *BW*
To: Webb, Bruce (CWS)
Subject: EA Proposal - Town of Beausejour - Wastewater Treatment Lagoon Expansion - File: 37.30

Hi Bruce,

The Watersheds and Protected Areas Branch and the Lands Branch have no concerns with the proposal and notes that then land is privately owned.

Thank you,

Adara Kaita
Crown Land Programs and Policy Manager
Conservation and Water Stewardship
Box 25, 200 Saulteaux Crescent
Winnipeg, MB R3J 3W3
Cell: (204) 945-6301
F: (204) 948-2197

Webb, Bruce (CWS)

From: Kelly, Jason (CWS)
Sent: September-30-13 9:56 AM BW
To: Webb, Bruce (CWS)
Subject: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

Parks and Natural Areas Branch has reviewed the proposal filed pursuant to the Environment Act for the Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30. The Branch has no comments to offer as this does not impact any parks or ecological reserves.

Jason Kelly, M.N.R.M.
Ecological Reserves and Protected Areas Specialist
Parks and Natural Areas Branch
Conservation and Water Stewardship
Box 53, 200 Saulteaux Cres
Winnipeg, MB R3J 3W3

Phone: 204-945-4148

Cell:

Fax: 204-945-0012

Email: Jason.Kelly@gov.mb.ca

Webb, Bruce (CWS)

From: Boissonneault, Caroline (CWS)
Sent: October-15-13 12:59 PM
To: Webb, Bruce (CWS) *BW*
Subject: Response to EA license review for the Town of Beausejour, file 37.30

Bruce:

The Wildlife Branch has reviewed the proposal and does not have any concerns with the Beausejour WWTL, file 37.30. This proposal would not impact any species at risk as it is located on agricultural land

Thank you.

Caroline Boissonneault

Wildlife Branch

Conservation and Water Stewardship

Tel.:204-945-6810

Caroline.boissonneault@gov.mb.ca



DATE: October 18, 2013

Memorandum

TO: Bruce Webb ^{BW}
Environmental Approvals Branch
160-123 Main Street, Winnipeg,
MB
R3C 1A5

FROM: Joy Kennedy
Water Quality Management Section
Water Science and Management Branch
160-123 Main Street, Winnipeg, MB
R3C 1A5

Cc Elaine Page

TELEPHONE: 945-7908
FACSIMILE: 948-2357
EMAIL: joy.kennedy@gov.mb.ca

SUBJECT: *ENVIRONMENT ACT PROPOSAL FILE: 37.30 TOWN OF
BEAUSEJOUR*

- Chemically precipitated phosphorus leads to increased reliance on chemicals and on a greatly reduced ability to recycle the valuable nutrients contained in biosolids and sludge. Water Quality Management Section encourages the use of effluent irrigation for fertilizer value and to mitigate the impacts of nutrient loading to receiving water ways.
 - The proponent and indicates that at the time of sludge removal the best practice technology for use of nutrients, organic matter, and energy will be reviewed and evaluated. In addition, can the proponent please indicate how they will handle the nutrients, organic matter and energy contained in the biosolids and sludge based on current best practice technologies?
- The proponent proposes to chemically precipitate phosphorous. Trickle discharge could be implemented after precipitation to further minimise both nitrogen and phosphorus levels in the Brokenhead. The current proposal does not appear to indicate the length of time of discharge. It is recommended the discharge period be at least two (2) to four (4) weeks or more.
- 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.

Joy Kennedy

Webb, Bruce (CWS)

Subject: FW: EAP 37.30 Town of Beausejour WWTL due Oct 18 2013

From: Janusz, Lauren R (CWS)
Sent: October-27-13 8:18 PM
To: Webb, Bruce (CWS) *Blah*
Cc: Kroeker, Derek (CWS); Long, Jeff (CWS)
Subject: EAP 37.30 Town of Beausejour WWTL due Oct 18 2013

Hi Bruce,

Fisheries Branch has reviewed this proposal to expand the existing Beausejour wastewater treatment lagoon by constructing three new storage cells (in situ clay liner) in SW ¼ 12-13-07 E. The new cells would discharge to the existing discharge ditch which then enters Bachman Drain and travels approximately 12, 450 m before entering the Brokenhead River. To meet the new phosphorous limits the proponent is proposing to add alum or ferric in the manhole between the primary cell and storage cells. The proponent is requesting that the existing licensed discharge period change to allow discharge between June 15th and October 31st. They would also like the ability to discharge multiple cells at one time. Clean rock will be used to rip rap the discharge outlet and silt fencing implemented until vegetation has established.

As noted in the proposal Bachman drain and the Brokenhead River support small and large bodied fish species. Nutrient loading has been identified as a major concern for the Brokenhead River. The addition of three new storage cells should eliminate the need for any future "emergency" releases and as long as the effluent adheres to the Manitoba Water Quality Standard, Objectives and Guidelines this should be an improvement over the current situation. If approved, they will however be able to discharge over a longer period and be able to discharge multiple cells at one time. The strategy they have selected to reduce phosphorous usually is done using up-flow sand filters to filter out the phosphorous. The consultant has indicated that without the filters the effectiveness of the methodology is not well known.

In addition to the usual clauses for these types of proposals (limits, silt fence, use of clean material, etc.) given the discharge period and volume of discharge may change and there is some uncertainty around the effectiveness of the phosphorous reduction strategy we would be supportive of the need to monitor Bachman Drain and /or the Brokenhead River for a period of time following the operation of the new cells. Please also include the clause regarding the need to clean equipment to reduce the spread of terrestrial and aquatic invasive species.

Thanks Bruce.

Laureen Janusz
Fisheries Science and Fish Culture Section
Fisheries Branch,
Manitoba Conservation and Water Stewardship
Box 20, 200 Saulteaux Crescent
Winnipeg, MB R3J 3W3

Phone: 204.945.7789

Cell: 204.793.1154

Fax: 204.948-2308

Email: Laureen.Janusz@gov.mb.ca

Webb, Bruce (CWS)

Subject: FW: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

From: Matthews, Rob (CWS)

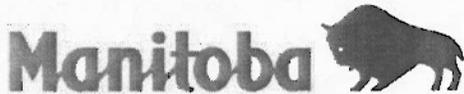
Sent: September-13-13 2:36 PM BW

To: Webb, Bruce (CWS)

Subject: RE: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

Please record that my section had "no comments" about the project.

[I would like to read the Summary Report when it is completed, however.]



Infrastructure and Transportation
Highway Planning and Design Branch
Environmental Services Section
1420 - 215 Garry St., Winnipeg, MB R3C 3P3
T (204) 619-4359 F (204) 945-0593

October 4, 2013

Tracey Braun, M. Sc. ^{BW}
Director, Environmental Approvals Branch
Manitoba Conservation and Water Stewardship
123 Main St., Suite 160
Winnipeg, MB R3C 1A5

RE: Town of Beausejour – WWTL Expansion
Client File No. 37.30

Dear Ms. Braun:

MIT has reviewed the proposal noted above and while we do not have concerns with the development as proposed, we would like to offer the following reminders:

- The proposed project may require a permit from the Highway Traffic Board for any new, modified or relocated access connection onto PTH 12 or PTH 44. A permit may also be required for:
 - any construction, above or below ground level, within 38.1 m (125 ft) from the edge of the right of way of any PTH;
 - any plantings within 15.2 m (50 ft) from the edge of the right of way of any PTH; or
 - discharge of water or other liquid materials into the ditch of any PTH.
- Should any of the water/sewer lines cross under or within the right of way of PTH 12 or PTH 44, an agreement with MIT will be required.
- Should any service road needs to be constructed or extended, it will be at the cost of the RM and not MIT.

For further information on permit application and utility agreements, please contact Joelle Couombe at email Joelle.Couombe@gov.mb.ca.

Thank you very much for providing us the opportunity to review the proposal.

Sincerely,

Ryan Coulter, M. Sc., P. Eng.
Manager of Environmental Services

Webb, Bruce (CWS)

Subject: FW: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

From: Sumner, Kevan (MLG)
Sent: October-18-13 4:39 PM
To: Webb, Bruce (CWS) BW
Cc: Shaler, Samantha (MLG)
Subject: FW: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

I have reviewed this proposal from the Town of Beausejour for a wastewater treatment lagoon expansion on behalf of the Community and Regional Planning Branch.

A review of the Brokenhead River Planning District Development Plan has determined that there are no policies in the Development Plan that would directly apply to the proposed lagoon expansion.

Section 3.3.8 of the Rural Municipality of Brokenhead Zoning By-law No. 1688 states that nothing in that by-law shall be so interpreted as to interfere with the construction, maintenance, and operation of the facilities of any public utility, provided that the requirements of such public utility is of a standard compatible with the adjacent area as determined by the Development Officer.

We therefore have no concerns with the proposed lagoon expansion. We do recommend that the applicant contact the Development Officer of the Brokenhead River Planning District to ensure that he has determined that the proposed development is of a standard compatible with the adjacent areas.

Kevan W. Sumner
Regional Manager
Community and Regional Planning - Beausejour Regional Office
Manitoba Local Government
PO Box 50, 125 - 20 First Street
Beausejour, MB R0E 0C0
Please note change of phone number below.
Ph: (204) 918-3538
Fx: (204) 268-6007
Email: kevan.sumner@gov.mb.ca

Webb, Bruce (CWS)

Subject: FW: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

From: Kubish, Cheryl (OFC)
Sent: October-15-13 10:57 AM
To: Webb, Bruce (CWS) *BW*
Cc: Schafer, Dave (OFC)
Subject: RE: Request for comments due October 18 , 2013 - Town of Beausejour WWTL File: 37.30

With respect to the construction of 3 new secondary cells adjacent to the existing cells at the existing wastewater treatment lagoon,
the Office of the Fire Commissioner has no comments.

Cheryl Kubish
Administrative Assistant
Office of the Fire Commissioner
508-401 York Avenue
Winnipeg MB R3C 0P8
Phone: 945-3328
Fax: 948-2089

E-Mail address: Cheryl.Kubish@gov.mb.ca