

**Webb, Bruce (CWS)**

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**To:** Steele, Tania (CWS)  
**Subject:** Town of Pilot Mound Water Treatment Plant Upgrade File: 5687.00

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

***Request for Additional Information:*** No additional information required.

***Public Comments:*** No public comments received.

***Technical Advisory Committee Comments:*** (12 pages)

Manitoba Conservation and Water Stewardship – Environmental Compliance and Enforcement Branch, January 2, 2014  
Manitoba Conservation and Water Stewardship – Protected Areas Initiative and Lands Branch, January 10, 2014  
Manitoba Conservation and Water Stewardship – Parks and Protected Spaces Branch, December 23, 2013  
Manitoba Conservation and Water Stewardship – Wildlife Branch, December 27, 2013  
Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Water Quality Management Section, December 31, 2013  
Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Groundwater Management Section, January 6, 2014  
Manitoba Conservation and Water Stewardship – Fisheries Branch, January 5 and 6, 2014  
Manitoba Conservation and Water Stewardship – Office of Drinking Water, January 9, 2014  
Manitoba Conservation and Water Stewardship – Water Use Licensing Section, December 6, 2013  
Manitoba Infrastructure and Transportation - Highway Planning and Design Branch, Environmental Services Section, December 10, 2013

Bruce.

**Webb, Bruce (CWS)**

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**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade  
File: 5687.00

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**From:** Bueckert, Curt (CWS)  
**Sent:** January-02-14 11:14 AM *BW*  
**To:** Webb, Bruce (CWS)  
**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00

I have reviewed the Town of Pilot Mound Water Treatment Plant Upgrade Proposal and can provide the following comments.

1. Storage of all Petroleum Products must comply with the Petroleum Products and Allied Products Regulation MR. 188/2001

Curt Bueckert, BAScEM  
Environment Officer, A/ Regional Supervisor  
Conservation and Water Stewardship, Environmental Compliance and Enforcement  
Room 309 25 Tupper St. North  
Portage la Prairie, MB  
R1N 3K1  
Office (204) 239-3868  
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E-Mail [curt.bueckert@gov.mb.ca](mailto:curt.bueckert@gov.mb.ca)  
24 Hour Emergency Reporting Line 1-855-944-4888

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**Webb, Bruce (CWS)**

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**From:** Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation\_Circulars (CWS)  
**Sent:** January-10-14 3:19 PM BW  
**To:** Webb, Bruce (CWS)  
**Cc:** Ross, Barry (CWS); Stevenson, Lori (CWS)  
**Subject:** EA Proposal - Town of Pilot Mound - Water Treatment Upgrade - File: 5687.00 - Comments due January 8

Hello Bruce,

The Protected Areas Initiative and the Lands Branch have no concerns with the noted EA proposal and note that this project does not impact Crown lands.

Thanks for the opportunity to review.

**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)**

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**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade  
File: 5687.00

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**From:** Kelly, Jason (CWS)

**Sent:** December-23-13 10:44 AM

**To:** Webb, Bruce (CWS)

**Subject:** RE: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00

Parks and Protected Spaces Branch has reviewed the proposal filed pursuant to the *Environment Act* for EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00. The Branch has no comments to offer as the project does not affect any parks or ecological reserves.

Jason Kelly, M.N.R.M.  
Ecological Reserves and Protected Areas Specialist  
Parks and Protected Spaces 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](mailto:Jason.Kelly@gov.mb.ca)

**Webb, Bruce (CWS)**

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**From:** Boissonneault, Caroline (CWS)  
**Sent:** December-27-13 1:46 PM  
**To:** Webb, Bruce (CWS) *BW*  
**Subject:** Emailing: EAP review for comments due Jan. 10 2014 - Pilot Mound Water Treatment Upgrade File 5687.00  
**Attachments:** EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00

Hello:

Wildlife Branch does not have any concerns.

Thank you.

Caroline Boissonneault

Conservation and Water Stewardship

Wildlife Branch

Tel.: 204-945-6810

[Caroline.boissonneault@gov.mb.ca](mailto:Caroline.boissonneault@gov.mb.ca)

Your message is ready to be sent with the following file or link attachments:

EAP review for comments due Jan. 10 2014 - Pilot Mound Water Treatment Upgrade File 5687.00

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



DATE: December 31, 2013

## Memorandum

TO: Bruce Webb <sup>BW</sup>  
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

TELEPHONE: 945-7908

FACSIMILE: 948-2357

EMAIL: joy.kennedy@gov.mb.ca

Cc Elaine Page.

**SUBJECT: ENVIRONMENT ACT PROPOSAL FILE: 5687.00 TOWN OF PILOT  
MOUND WATER TREATMENT PLANT UPGRADE**

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- The proponent states on page 27 of the Proposal that that they will conduct long term monitoring of the Goudney Reservoir to verify impacts on water quality. Can the proponent provide information on the monitoring program? (location, parameters, frequency).
- The parameters in Table 3.2.2 of the proposal appear to describe the expected concentrations in the flow from Goudney Reservoir. Applicable parameters are within Tier III guidelines of the *Manitoba Water Quality Standards, Objectives, and Guidelines*. (196/2011).
- Page 13 of the proposal states 'The discharge from the existing plant to the lime sludge ponds will be repurposed to accept membrane reject water, and the existing raw water line will be reversed for the discharge of membrane reject.' On page 15 the proponent states 'It is proposed that membrane concentrate be discharged to the Goudney reservoir through the existing raw water intake and pipeline.' Can the proponent confirm that the sludge ponds will be repurposed?
- 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)**

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**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade  
File: 5687.00

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**From:** Wang, Jianrong (CWS)  
**Sent:** January-06-14 3:40 PM *BCW*  
**To:** Webb, Bruce (CWS)  
**Cc:** Phipps, Graham (CWS)  
**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00

Hi, Bruce,

Here are the review questions from Groundwater Management Section:

1. The groundwater supply well is located in Glenora Aquifer which is about 16 km west of Pilot Mound, are there any conflicts between Pilot Mound water requirement and local long term requirements?
2. Based on site visiting, to the north of the pumping well is the Marringhurst Creek, to the SE is an active sand and gravel pit. After long term pumping, will the surface water and/or the open pit have any impact on water quality? If yes, how to monitor and mitigate the impact?
3. Glenora Aquifer is an unconfined aquifer, the advantage is that the recharge rate is high, more groundwater can be used; the disadvantage is that it is vulnerable to contamination, are there any plan to manage the capture zone of pumping well to prevent potential contamination?

Thanks,

Jianrong

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**Jianrong Wang, Ph.D., P.Geo.,  
Aquifer Sustainability Hydrogeologist**

Groundwater Management Section  
Manitoba Conservation and Water Stewardship  
Box 18, 200 Saulteaux Crescent,  
Winnipeg, Manitoba R3J 3W3  
Phone: (204) 945-7476  
Fax: (204) 945-7419

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**Webb, Bruce (CWS)**

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**Subject:** FW: EAP 5687.00 Pilot Mound Water Treatment Upgrade due Jan 10 2014

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**From:** Janusz, Lauren R (CWS)  
**Sent:** January-05-14 5:08 PM  
**To:** Webb, Bruce (CWS) *BSW*  
**Cc:** Bruederlin, Bruno (CWS); Long, Jeff (CWS)  
**Subject:** EAP 5687.00 Pilot Mound Water Treatment Upgrade due Jan 10 2014

Hi Bruce,

Fisheries Branch has reviewed this proposal to construct a new raw water supply with a groundwater well within the Glenora aquifer at NW 20-3-12 W. The proponent indicates the wells GUDI wells. A 16.3 km 200 mm raw water pipeline will deliver water to the water treatment plant which will have a Reverse Osmosis membrane unit installed. The total raw water demand for the town is ~ 6.0 L/s with a 20 year projected treated water demand of 5.5 L/s. There will be ~20% reject from the water treatment system which will be directed to the Goudney reservoir (1.2 L/s) through the existing raw water line. Goudney reservoir discharges to Pilot Creek. The proponent indicates that *the concentrate will undergo significant mixing prior to entering Pilot Creek and the contributions at low flow have an almost unnoticeable influence and in certain minerals improve the overall water quality.* The proponent indicates there will be 1 river crossing involved with the new raw water pipeline. They indicate that all pipeline crossings, with the exception of dry intermittent drains, will be directionally drilled. Directional drill holes will be outside of the riparian areas. Intermittent drains will be open cut according to DFO's Operational Statement.

Fisheries Branch has some concerns with certain components of the proposed activities which for the most part can be addressed through the mitigation measures identified in the proposal and/or through the inclusion of a number of standard clauses (e.g. Draft EAL Pembina and Manitou re: construction -general and pipeline) . In terms of the reject water being directed back to Goudney Reservoir, the proponent has indicated that effects on Pilot Creek will be minimal as the concentrate will undergo significant mixing in the reservoir. Our concern is not just downstream effects within Pilot Creek but within Goudney Reservoir. This reservoir has been stocked with walleye fry nine times since 2001 the last time being 2011. While we defer recommendations on water quality parameters and monitoring to our colleagues in Water Science Management we would be supportive of a monitoring clause.

Finally the proponent has indicated that these are GUDI wells. It does not appear that they have completed some of the testing. We would be most interested in the knowing the extent of the drawdown cone and if the groundwater contributes base flow to any of the creeks and/or river. While we defer to the expertise of our colleagues in Water Branch we would have concerns with this proposal if there is the potential to impact flows, particularly during drought events. Is it possible to include a clause that requires the proponent to monitor surface water flows or the need to monitor if this is determined to be an issue.

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

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Fax: 204.948-2308

Email: [Laureen.Janusz@gov.mb.ca](mailto:Laureen.Janusz@gov.mb.ca)

## Webb, Bruce (CWS)

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**From:** Bruederlin, Bruno (CWS)  
**Sent:** January-06-14 4:04 PM *Bw*  
**To:** Webb, Bruce (CWS)  
**Cc:** Janusz, Laureen R (CWS)  
**Subject:** FW: EAP 5687.00 Pilot Mound Water Treatment Upgrade due Jan 10 2014

Hello Bruce,

An aeration system was installed in Goudney Reservoir in 1984 to establish a fishery in the local area and to improve the raw water for their water treatment plant. The aeration system has operated ever since and is stocked annually with walleye fry since 1984, depending on available.

What is the chemical makeup of the wash water that will be discharged into the reservoir.

It is interesting to see Pilot Mound going to ground water wells that far away as this was a major reason why aeration was put into Goudney Reservoir because the cost was exponential cheaper than ground water.

Bruno Bruederlin  
Regional Fisheries Biologist  
Conservation and Water Stewardship  
Fisheries Branch  
Room 128 Box 13  
1129 Queens Avenue  
Brandon MB R7A 1L9  
cellular 724-4116, fax 726-6301  
email [Bruno.Bruederlin@gov.mb.ca](mailto:Bruno.Bruederlin@gov.mb.ca)

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**From:** Janusz, Laureen R (CWS)  
**Sent:** January-05-14 5:08 PM  
**To:** Cc: Bruederlin, Bruno (CWS); Long, Jeff (CWS)  
**Subject:** EAP 5687.00 Pilot Mound Water Treatment Upgrade due Jan 10 2014

Hi Bruce,

Fisheries Branch has reviewed this proposal to construct a new raw water supply with a groundwater well within the Glenora aquifer at NW 20-3-12 W. The proponent indicates the wells GUDI wells. A 16.3 km 200 mm raw water pipeline will deliver water to the water treatment plant which will have a Reverse Osmosis membrane unit installed. The total raw water demand for the town is ~ 6.0 L/s with a 20 year projected treated water demand of 5.5 L/s. There will be ~20% reject from the water treatment system which will be directed to the Goudney reservoir (1.2 L/s) through the existing raw water line. Goudney reservoir discharges to Pilot Creek. The proponent indicates that the *concentrate will undergo significant mixing prior to entering Pilot Creek and the contributions at low flow have an almost unnoticeable influence and in certain minerals improve the overall water quality*. The proponent indicates there will be 1 river crossing involved with the new raw water pipeline. They indicate that all pipeline crossings, with the exception of dry intermittent drains, will be directionally drilled. Directional drill holes will be outside of the riparian areas. Intermittent drains will be open cut according to DFO's Operational Statement.

Fisheries Branch has some concerns with certain components of the proposed activities which for the most part can be addressed through the mitigation measures identified in the proposal and/or through the inclusion of a number of standard clauses (e.g. Draft EAL Pembina and Manitou re: construction -general and pipeline) . In terms of the reject water being directed back to Goudney Reservoir, the proponent has indicated that effects on Pilot Creek will be minimal as the concentrate will undergo significant mixing in the reservoir. Our concern is not just downstream effects within

**Webb, Bruce (CWS)**

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**From:** Stibbard, James (CWS)  
**Sent:** January-09-14 9:19 AM  
**To:** Webb, Bruce (CWS) *BW*  
**Subject:** Re: 5687.00 Town of Pilot Mound Water Treatment Plant Upgrading EAP

Bruce,

I reviewed the above noted EAP. Since it involves a major upgrading of the water treatment plant and process, the Town of Pilot Mound will have to obtain a *Permit to Construct or Alter a Public Water System* from Office of Drinking Water before beginning construction of the work. Beyond this point, I have no other concerns with the EAP or proposed work.

If you have any questions, please call.

Regards.

**James Stibbard P. Eng.**  
Approvals Engineer  
Office of Drinking Water  
1007 Century Street  
Winnipeg MB R3H 0W4  
phone: (204) 945-5949  
fax: (204) 945-1365  
email: [James.Stibbard@gov.mb.ca](mailto:James.Stibbard@gov.mb.ca)  
website: [www.manitoba.ca/drinkingwater](http://www.manitoba.ca/drinkingwater)

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**Webb, Bruce (CWS)**

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**Subject:** FW: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade  
File: 5687.00

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**From:** Matthews, Rob (CWS)

**Sent:** December-06-13 4:05 PM

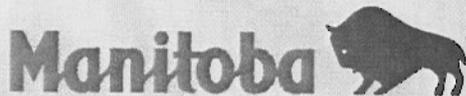
**To:** Webb, Bruce (CWS)

**Cc:** Anderson, Kristina (CWS)

**Subject:** RE: EAP review for comments due Jan. 10, 2014 - Pilot Mound Water Treatment Upgrade File: 5687.00

The Water Use Licensing Section (WULS) can confirm that the Town of Pilot Mound has applied for a water rights licence under *The Water Rights Act* to divert water from the Glenora Aquifer to supply water to the Town.

Rob Matthews, Manager, Water Use Licensing Section



Infrastructure and Transportation  
Highway Planning and Design Branch  
Environmental Services Section  
1420 - 215 Garry St., Winnipeg, MB R3C 3P3  
T (204) 819-4359 F (204) 945-0593

December 10, 2013

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

RE: Town of Pilot Mound Water Treatment Plant Upgrade  
Client File No. 5687.00

Dear Ms. Braun:

MIT has reviewed the Environment Act Proposal for the upgrading of the water treatment plant in the Town of Pilot Mound and we have the following comments:

- The proponent should be informed that, under the Highways and Transportation Act, any new, modified or relocated access connection onto a PR will require a permit from Manitoba Infrastructure and Transportation. A permit may also be required for any construction (above or below ground level) within 38.1 m (125 ft), for any plantings within 15.2 m (50 ft) from the edge of the right of way of PR 253, or discharge of water or other liquid materials into the ditch of PR 253.
- An underground utility agreement will be required for the proposed water pipelines that will go along, across or under PR 253.
- Permit applications and underground utility agreements can be obtained by contacting Ashley Beck at (204) 728-7000 or by email at [Ashley.Beck@gov.mb.ca](mailto:Ashley.Beck@gov.mb.ca).

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

Sincerely,

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