

Webb, Bruce (CWS)

To: Steele, Tania (CWS)
Subject: RM of Tache - Landmark Groundwater Supply System Expansion File: 5732.00

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

Request for additional information: No additional information required.

Public Comments on Environment Act Proposal: No public comments received.

Technical Advisory Committee Comments on Environment Act Proposal: (11 pages)

- Manitoba Conservation and Water Stewardship – Environmental Programs and Strategies Branch, Air Quality Section, September 12, 2014
- Manitoba Conservation and Water Stewardship – Lands Branch, October 9, 2014
- Manitoba Conservation and Water Stewardship – Lands Branch, Land Management and Planning Section, September 10, 2014
- Manitoba Conservation and Water Stewardship – Parks and Protected Spaces Branch, September 22, 2014
- Manitoba Conservation and Water Stewardship – Water Science and Management Branch, Groundwater Management Section, September 29, 2014
- Manitoba Conservation and Water Stewardship – Water Control Works and Drainage Licensing Section, September 15, 2014
- Manitoba Infrastructure and Transportation – Highway Planning and Design Branch, Environmental Services Section, September 24, 2014
- Manitoba Municipal Government – Community and Regional Planning Branch, September 11, 2014
- Manitoba Agriculture, Food and Rural Development - Crops Branch, September 26, 2014
- Canadian Environmental Assessment Agency, September 10, 2014

Bruce.

DATE: 12 September, 2014

TO: Bruce Webb *BW*
Environmental Approvals
Conservation and Water
Stewardship
160-123 Main Street, Winnipeg

FROM: Muntaseer Ibn Azkar
Air Quality–Environmental Programs
& Strategies
Conservation and Water Stewardship
1007 Century Street, Winnipeg

SUBJECT: RM of Tache – Landmark Groundwater Supply Expansion (File. 5732.00)

Air Quality Section has reviewed the above proposal and provides the following comments:

- The proposal is not expected to have a significant impact on air quality.

Webb, Bruce (CWS)

From: +WPG1212 - Conservation_Circulars (CWS)
Sent: October-09-14 8:38 AM
To: Webb, Bruce (CWS) BW
Subject: FW: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00
Attachments: eap.pdf; ack.pdf; advert.pdf

Hi Bruce,

Good morning

The Lands Branch has no concerns as there are no Crown lands impacted by the proposal.

Thank you for the opportunity to review.

Kind regards

Winifred Frias

Crown Land Programs Administrator
Lands Branch
Manitoba Conservation and Water Stewardship
200 Sauiteaux Crescent, Box 25
Winnipeg, Manitoba R3J 3W3 CANADA
Phone: (204) 945-4524
Facsimile: (204) 948-2197

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

From: Sobkowich, Dale (CWS)

Sent: September-10-14 1:44 PM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

BW

Land Management & Planning Section has no comments to forward

Dale Sobkowich

Lands Branch

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

From: Kelly, Jason (CWS)

Sent: September-22-14 9:06 AM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

Parks and Protected Spaces Branch has reviewed the proposal submitted pursuant to the *Environment Act* for Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00. The Branch has no comments or concerns to offer as it does not affect any provincial parks, park reserves, ecological reserves, areas of special interest or proposed protected areas.

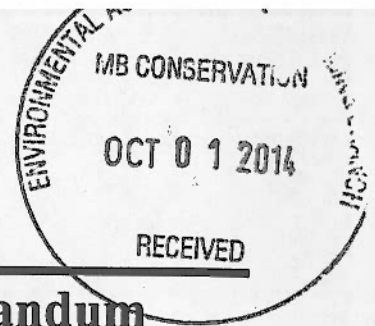
Jason Kelly, M.N.R.M.
Ecological Reserves and Protected Areas Specialist
Parks and Protected Spaces Branch
Conservation and Water Stewardship
Box 53, 200 Saulteaux Cres
Winnipeg, MB R3J 3W3

Phone: 204-945-4148

Cell:

Fax: 204-945-0012

Email: Jason.Kelly@gov.mb.ca



DATE: Sep. 29, 2014

Memorandum

TO: Bruce Webb <i>BW</i> Water Control and Assessment Officer Environmental Approvals Branch Manitoba Conservation and Water Stewardship Building #1218, 123 Main Street Winnipeg MB R3C 1A5	FROM: Jianrong Wang, Ph.D., P.Geo. Aquifer Sustainability Hydrogeologist Groundwater Management Section Manitoba Conservation and Water Stewardship Box 18, 200 Saulteaux Crescent Winnipeg MB R3J 3W3
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PHONE: 945-7476
FAX: 945-7419
FILE: 5.7.2

SUBJECT: ENVIRONMENT ACT PROPOSAL – 5732.00
Municipal Groundwater Supply Expansion Investigation
Local Urban District of Landmark
Rural Municipality of Tache - Manitoba

The above Environment Act Proposal (EAP) proposes a groundwater withdrawal increase gradually from current 140 dam³/yr to 663.21 dam³/yr in 2034 using two existing pumping wells in Local Urban District of Landmark, it is based on population projection from 1,500 (current) to 6,000 (in 2034).

The EAP has compiled lots of necessary geological and hydrogeological information to support the feasibility of the project; simulated groundwater drawdown to analysis the potential impact on nearby wells; made commitments to monitoring the development and will develop a contingency plan should the aquifer become impacted in some manner. I agree that monitoring the effects of the additional pumping should be conducted.

After reviewed the report I have the following comments:

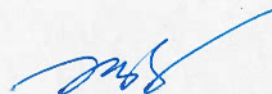
1. The statement of “Groundwater flow is from east to west in both aquifers in the Landmark area” (paragraph 5 of page 9) should be ‘Groundwater flow is from southeast to northwest in both aquifers in the Landmark area’, then it will match with Fig.6 and also consistent with the expression in paragraph 1 of page 10 – “..., and a resultant vector of about 312 degrees”.
2. It is difficult to be in agreement with the discussion (page 13) and conclusion about the reason of the negative drawdown in Figure 10. Figure 10 is the result of subtracting the 1991 groundwater level from the 2005 groundwater level information from Provincial monitoring wells. 1991 levels were generally the lowest in this region since the start of

groundwater monitoring in the 1960s. And so the negative drawdown area indicates the groundwater level in 2005 is lower than that in 1991, this shows there are higher water withdrawals from this area since 1991, as in other areas water levels have recovered but not for the area around.

The speculation of "the negative drawdown is a result of the MCWS artificial head lowering and constant aquifer conditions caused by the south lateral drain head lowering project" (last paragraph of page 13) cannot be supported since the pressure release wells have been discharging groundwater since early 1980s, they are not new wells after 1991 and therefore their effects would have already been incorporated into the 1991 levels.

It should also be noted that first two contours for the negative drawdown area (0m, -2m) have the support of monitoring data after a detailed check. The largest drawdown (-7m) is calculated from modeled 1991 levels and measured 2005 water levels. It is necessary to take caution when it is referenced.

3. Recharge to bedrock aquifers is discussed on page 9, the current understanding about the recharge based on provincial studies is that the main recharge to the bedrock carbonate aquifer comes from the overburden material (sand, silt etc) based on 3-D groundwater modeling; recharge from Sandilands is limited which is significant different from the old reports, please refer to the slide 37 of the following website for further information:
http://www.srgmp.ca/open_house_presentation.html



Jianrong Wang

JW/jw:ea

Cc: G.Phipps

*Note: The scanned report is blurry. It's hard to read. Fortunately I am familiar with the region and know the wells location.

Webb, Bruce (CWS)

From: Roberts, Dan (CWS)
Sent: September-15-14 11:04 AM
To: Webb, Bruce (CWS) *BW*
Subject: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

On behalf of the *Water Control Works and Drainage Licensing Section*, there are no concerns.

Dan Roberts

Water Resource Officer
Water Control Works and Drainage Licensing Section
Conservation and Water Stewardship
Box 6000, Building #1180, 75 - 7th Avenue,
Gimli, MB R0C 1B0
Cell: (204) 281-2122

Manitoba



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) 946-0593

September 24, 2014

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

RE: RM Tache - Landmark Water Supply Expansion
Client File No. 5732.00

Dear Ms. Braun:

MIT has reviewed the proposal under the Environment Act noted above and while we do not have any objections to the two existing wells, we would like to ask that MIT be given a chance to review and comment on the location of the 3rd well once it is determined.

Moreover, should any of the wells, existing or to be determined, and/or its associated components (pipes, signs, planting, etc.) fall within the controlled area (38.1 m or 125 ft from the edge of the right-of-way) of any Provincial Road (PR) or Provincial Trunk Highway (PTH), a permit will be required from MIT.

For any questions, please contact Murray Chornoboy, Regional Planning Technologist, at (204) 346-6287 or at Murray.Chornoboy@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

Manitoba
spirited energy

Webb, Bruce (CWS)

From: Vivekananda, Prashanna (MMG)
Sent: September-11-14 2:04 PM *BW*
To: Webb, Bruce (CWS)
Subject: EAP RM Tache Landmark Water Supply File 5732

Community and Regional Planning has no concerns.

Prashanna Vivekananda
Community Planner - Beausejour and Steinbach Regional Offices
Community and Regional Planning
Manitoba Municipal Government
Beausejour:
Ph: (204) 268-6065
Fx: (204) 268-6007
Steinbach:
Ph: (204) 346-6245
Fx: (204) 346-7305
Email: prashanna.vivekananda@gov.mb.ca

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

From: Wilson, Brian (MAFRD)

Sent: September-26-14 10:24 AM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

BW

No comment.

Brian Wilson

Brian.Wilson@gov.mb.ca

Soils Suitability Specialist

Crops Branch

Manitoba Agriculture, Food and Rural Development

Box 1149 #65 - 3rd Avenue NE

Carman, Manitoba R0G 0J0

(204) 750-3180

FAX (204) 745-5690

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

From: Sigurdson,Shauna [CEAA] [mailto:Shauna.Sigurdson@ceaa-acee.gc.ca]

Sent: September-10-14 11:10 AM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - EAP RM Tache - Landmark Water Supply File: 5732.00

Hello Bruce – this is not a designated project under CEAA 2012, so the Agency will not be involved in the review.

Shauna