

Webb, Bruce (CWS)

From: Sigurdson,Shauna [CEAA] [Shauna.Sigurdson@ceaa-acee.gc.ca]
Sent: February-09-16 12:25 PM
To: Webb, Bruce (CWS) BW
Cc: Kessler,Anna [CEAA]
Subject: RE: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

Hello Bruce

Thank you for your assistance in clarifying the parameters of the project and provincial license requirements.

The Agency has completed its analysis of the proposed project and concluded that under the *Canadian Environmental Assessment Act* (CEAA 2012) and its *Regulations*, the proposed project is not a designated physical activity.

Analysis

Given that the new culvert would be an expansion of an existing structure for the diversion of water, the Agency considered whether Paragraph 7 of the *Regulations Designating Physical Activities*, under CEAA 2012 applied to the project. S 7 states:

7. The expansion of an existing structure for the diversion of water from a natural water body into another natural water body that would result in an increase in diversion capacity of 50% or more and a total diversion capacity of 10 000 000 m³/year.

The proposed outlet will be actively managed to maintain the water level at 96.5 m which is 0.1m below the pier. The bottom of the proposed culvert would be set at this elevation so that the water levels could not be lowered below this target elevation. Once this elevation is reached, outflow from the lake would stop.

The lake is 561 ha (5 610 000 m²). To have a discharge of 10 000 000 m³/year, 1.78 m of precipitation would have to fall on the lake area (ignoring other inflows). The average precipitation for Manitoba is approximately 0.5 m/y. Therefore on an annual basis, given the ongoing stabilization of the lake level, it is highly unlikely that the flow rate through the culvert could ever reach the regulation threshold limit.

During storm events, outflow from Sandy Lake would be suspended until monitoring confirmed that downstream water levels in Beaufort Lake and the related systems were operating within their prescribed tolerances. Therefore, the culvert is not to be used as an emergency outlet. This is included in the Environment Act Proposal and CWS has verified this will be a requirement of the operating license.

Therefore, even though the design capacity could theoretically exceed the threshold in the expansion provision, the physical reality of the lake size, annual precipitation and operational restrictions during emergency events would prevent this threshold from being reached. The proposed project is therefore not considered a designated physical activity under paragraph 7 of the Regulations.

Please let me know if you have any questions regarding the Agency's conclusion.

Shauna Sigurdson

Regional Director, Prairie and Northern Region
Canadian Environmental Assessment Agency / Government of Canada
shauna.sigurdson@ceaa-acee.gc.ca / Tel: 780-495-2236 / Cel :780-288-2752

DATE: 14 January, 2016

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

FROM: Muntaseer Ibn Azkar
Climate Change and Air Quality
Conservation and Water Stewardship
160-123 Main Street, Winnipeg

**SUBJECT: Municipality of Harrison Park – Sandy Lake Water Level Control Project
(File 5804.00)**

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

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

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

From: +WPG1212 - Parks Circulars (CWS)

Sent: December-29-15 3:17 PM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

Parks and Protected Spaces Branch has reviewed the proposal submitted pursuant to *The Environment Act* for Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00. The Branch has no comments or concerns to offer as it does not affect any provincial parks, park reserves, ecological reserves, areas of special interested or proposed protected areas.

Webb, Bruce (CWS)

From: +WPG1212 - Conservation Circulars (CWS)
Sent: January-13-16 8:33 AM
To: Webb, Bruce (CWS) BW
Subject: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

Hello Bruce,

Good morning.

Below are comments as well as suggestions made by the IRMT Western Region and coursed through the Regional Lands Manager:

1. Lack of geodetic level to indicate what static level that Sandy Lake will be maintained or where the gate will be established. Clearly this is an important for understanding the impact to current levels and how much drawdown is required to get to that level. As the proposal mentions that the target level is 0.1 m below the top of the pier, It has been noted that the pier was not a level at last inspection and also was scheduled to be removed January 2016.

Suggestion that a geodetic level be incorporated in the report as well as information as to how much draw down required of current lake level.

2. There is also concern for cottage development proposed for Beauford Lake (located immediately downstream of Sandy Lake) and as such, request to have assessment of immediate flood from Sandy Lake and how it will change levels to Beauford and to what duration.

Suggestion that the report include some comparative impacts to the potential impacted lake levels and how it impacts proposed cottage lot location.

3. Potential to flood along Drainage Route- Review of the drainage route of the 10 crossings with Water Resources Staff have indicated that Crossing number 10 has the potential to flood. Crossing 10 is all on Keeseekoowenin First Nation land and has low freeboard coverage on the culvert. The history of the area flooding is recent, and in the spring of 2015 Keeseekoowenin First Nation was in contact with the Rural Municipality of Harrison as the water from Sandy Lake was causing flooding issues at this location. In addition, there other flows added to the drainage route (from Thomas Lake) that may provide a compounding impact will impact to this crossing.

Suggestion that more hydrological information be provided with flood stage impacts to this drainage route and on this crossing. Crossing Number 10 should also be included as a control point for the release of water from Sandy lake. Suggestion that Report also include statement that the First Nation have been consulted and have expressed support to the proposed works.

4. Request for survey of any potential clean out is required beforehand to properly assess extent of the potential impacts along drainage route.

Suggestion that cleanout survey be conducted and estimations with potential impacts be included in future report.

If you need clarifications please directly contact Myles Kopytko – Regional Lands Manager for Western Region MCWS at 204-761-7538.

Webb, Bruce (CWS)

From: Stibbard, James (CWS)
Sent: January-11-16 9:41 AM
To: Webb, Bruce (CWS) *Blw*
Subject: RE: 5804.00 RM of Harrison Park Sandy Lake Diversion

Mr. Webb,

I reviewed the above noted EAP Report and note the following:

- The Little Saskatchewan River (LSR) provides the raw water supply for the Town of Rivers downstream of the point where the proposed diversion is to enter the LSR. Further downstream, the LSR empties into the Assiniboine river upstream of the water system intake for the City of Brandon. No mention of this was made in the Report.
- No data is given on the chemistry of Sandy Lake (minerals, salinity, organic carbon, etc.) or any changes in the chemistry of the LSR anticipated resulting from, the diversion of water from Sandy Lake.
- No discussion is provided of potential effects upon the treatment processes or treated water quality of the Town of Rivers or City of Brandon public water systems from diversion of water from Sandy lake into the LSR.

I would respectfully suggest these issues should have been addressed to at least some extent in the Report. At a minimum, ODW recommends that contact information for the Town of Rivers water treatment plant be included in the Operating Procedures for the diversion with instructions that the water plant operator at the Town of Rivers be notified any time the diversion is operated to release water from Sandy Lake into the LSR.

Apart from these points ODW has no other cause for concern with the EAP or proposed development respecting drinking water safety or quality.

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
website: www.manitoba.ca/drinkingwater

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Webb, Bruce (CWS)

Subject: FW: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

From: Matthews, Rob (CWS)

Sent: December-13-15 12:45 PM *BW*

To: Webb, Bruce (CWS)

Cc: Butterfield, Tamara (CWS)

Subject: RE: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

Bruce,

No concerns about this one

Rob

Webb, Bruce (CWS)

From: Roberts, Dan (CWS)
Sent: January-07-16 1:19 PM BU
To: Webb, Bruce (CWS)
Subject: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00
Attachments: Application for Licence to Construct Water Control Works.pdf; Fact Sheet-Engineered Drainage Plans for Subdivisions.pdf

An engineered drainage plan and design of proposed infrastructure are required, as per the attached specifications.

Please advise the proponent that all water control works (drains, culverts, dykes, dams, etc.) require licensing under the *Water Rights Act* - an application is attached for their convenience. Any inquiries in this regard may be directed to the local *Water Resource Officer*. Their contact information may be found at:

http://www.gov.mb.ca/conservation/waterstewardship/licensing/pdf/officer_areas_of_focus_30mar2015.pdf

Licensing of yard and field approaches (access points) are the responsibility of either the municipality, or *Manitoba Infrastructure and Transportation*, whichever is applicable.

The drainage and/or alteration of permanent and semi-permanent wetlands is not permissible under the *Water Rights Act*.

Thank You,

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) 641-1331

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

From: Kiss, Brian (CWS)

Sent: January-14-16 11:13 AM

To: Webb, Bruce (CWS)

Subject: RE: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

No wildlife related concerns.

-Brian Kiss



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

January 7, 2016

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

RE: Municipality of Harrison Park- Sandy Lake Water Level Control
Client File No. 5804.00

Dear Ms. Braun:

MIT has reviewed the proposal under the *Environment Act* noted above and MIT's Southwestern Region has the following comments/concerns:

- MIT has already undertaken bank stabilization work along PR 250 at Beaufort Lake. Allowing additional water to flow from Sandy Lake to Beaufort Lake may cause further erosion and bank destabilization.
- Indications that the potential for flow to continue through all or a part of a winter season is of concern given the proximity of PR 250.
- The proposal indicates that the slide gate on the box culvert will be opened or closed based on site conditions. However, there is no indication who will be monitoring the site conditions and then operating the gate. It has been the experience of MIT that gates are not well monitored nor maintained.
- The proposal advises that the outflow from Sandy Lake will not be permitted under storm conditions. There isn't a clear enforceable plan to ensure this.
- The proposal indicates that fish that leave Sandy Lake in overflow conditions may become trapped and perish. The proposed solution of a screen on the box culvert has been rejected due to the necessary maintenance.

For clarifications on these comments, please contact Brian Hickman, Regional Planning Technologist, at (204) 726-6822 or at Brian.Hickman@gov.mb.ca.

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

Sincerely,

A handwritten signature in black ink, appearing to read "R. Couiter". The signature is fluid and cursive, with a large initial "R" and a long, sweeping underline.

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

Webb, Bruce (CWS)

Subject: FW: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

From: Frykoda, Amy (HHLS)
Sent: December-19-15 9:19 AM *BLW*
To: Webb, Bruce (CWS)
Subject: FW: Request for review/comment - Mun. Harrison Park - Sandy Lake Water Level - File: 5804.00

No further comments,

Dr. Amy Frykoda, MD, CCFP, MSc

Medical Officer of Health

Manitoba Health

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