



Date: March 20, 2015

File: 2833.20

To: Tania Steele
Licensing Clerk
Environmental Approvals Branch
123 Main Street
Ste. 160 Union Station
Winnipeg, Mb R3C 1A5

From: Rob Boswick, P. Eng.
Environmental Engineer
Environmental Approvals Branch
123 Main Street
Ste. 160 Union Station
Winnipeg, Mb R3C 1A5

Subject: Rural Municipality of La Broquerie – Wastewater Treatment Lagoon Expansion – EAP Material to Public Registries

Please distribute the attached material pertaining to the Rural Municipality of La Broquerie – Wastewater Treatment Lagoon Expansion Environment Act Proposal review to the appropriate Public Registries.

Attached are:

1. Email message (1 page) from Office of Drinking Water – Manitoba Conservation and Water Stewardship, dated February 26, 2015;
2. Memorandum (1 page) from Air Quality – Environmental Programs & Strategies – Manitoba Conservation and Water Stewardship, dated February 26, 2015;
3. Memorandum (1 page) from Environmental Compliance and Enforcement Branch – Manitoba Conservation and Water Stewardship, dated February 25, 2015;
4. Email message (1 page) from Community and Regional Planning – Manitoba Municipal Government, dated February 24, 2015;
5. Letter (supplementary, 2 pages) from Highway Planning and Design Branch – Manitoba Infrastructure and Transportation, dated February 19, 2015;
6. Email message (1 page) from Office of the Fire Commissioner, dated February 13, 2015;
7. Memorandum (2 pages) from Water Quality Management Section, Water Science and Management Branch – Manitoba Conservation and Water Stewardship, dated February 11, 2015;
8. Email message (1 page) from Lands Branch – Manitoba Conservation and Water Stewardship, dated February 2, 2015;
9. Letter (1 page) from Highway Planning and Design Branch – Manitoba Infrastructure and Transportation, dated February 2, 2015;
10. Email message (1 page) from Parks and Protected Spaces Branch – Manitoba Conservation and Water Stewardship, dated February 2, 2015; and
11. Email message (1 page with 2 page attachment) from Water Control Works and Drainage Licensing Section – Manitoba Conservation and Water Stewardship, dated January 29, 2015.

There are a total of **15 pages** attached to this memo.

Thank you,

Rob Boswick
Attachments

Boswick, Robert (CWS)

From: Stibbard, James (CWS)
Sent: February-26-15 9:20 AM
To: Boswick, Robert (CWS)
Subject: Re: 2833.20 RM of La Broquerie Wastewater Lagoon Upgrading EAP

Hello, Robert,

I reviewed the above noted EAP and found no cause for concern respecting drinking water quality or safety. The EAP notes the lagoon treated effluent discharge will be to the Seine River, which is not used as a source for any drinking water system. 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

Confidentiality Notice: This message, including any attachments, is confidential and may also be privileged and all rights to privilege are expressly claimed and not waived. Any use, dissemination, distribution, copying or disclosure of this message, or any attachments, in whole or in part, by anyone other than the intended recipient, is strictly prohibited.

DATE: 26 February, 2015

TO: Robert Boswick
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 La Broquerie – Lagoon Expansion (File. 2833.20)

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 provided that the measures cited are implemented.
- The odour clause is suggested to be included in the License.

DATE: February 25, 2015

TO: Robert Boswick
Environmental Approvals
Conservation and Water Stewardship
123 Main St Suite 160 (Box 80)
Winnipeg MB R3C 1A5

FROM: Environmental Compliance and Enforcement
Conservation and Water Stewardship
Unit B – 284 Reimer Avenue
Steinbach MB R5G 0R5

SUBJECT: Environment Act Proposal – Rural Municipality of La Broquerie – Proposed Wastewater Treatment Lagoon Expansion (Client File No. 2833.20)

Environmental Compliance and Enforcement Branch has reviewed the above noted Environment Act Proposal (EAP) dated December 2014 and provides the following comments:

The EAP indicates that effluent sampling will be completed prior to discharging the storage cells. However, during summer months it is proposed to discharge effluent directly from the sewage treatment plant to the Seine River, which we assume will be a continuous discharge. The EAP does not include discussion regarding sampling and monitoring during the direct discharge period to ensure compliance with effluent quality requirements.

The EAP indicates likely infiltration into the wastewater collection system in spring and after high precipitation events, resulting in higher than average hydraulic loading but does not include any mitigation measures. Are there any measures in place or planned to address infiltration?

Does the Rural Municipality have plans to extend the wastewater collection system to service existing rural developments, and if so, was this potential increase in hydraulic loading factored into the design?

Conservation and Water Stewardship recommends a wastewater treatment lagoon be situated at least 300 meters from the nearest individual residence and 460 meters from any center of population. The proposed location of the new aerated primary cells is significantly closer to the nearest residence and the LUD of La Broquerie. Although the proposal indicates that with constant aeration, there are no concerns expected with the location of the expansion cells, the proponent should be prepared to implement additional mitigative measures should noise or odour become an issue for nearby residences in the future.

Boswick, Robert (CWS)

From: Vivekananda, Prashanna (MMG)
Sent: February-24-15 3:55 PM
To: Boswick, Robert (CWS)
Subject: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

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



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) 945-0583

February 19, 2015

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

RE: RM of La Broquerie Wastewater Treatment Lagoon Expansion
Client File No. 2833.20

Dear Ms. Braun:

In addition to the comments sent on February 2, 2015, MIT's Water Management, Planning and Standards Branch has the following concern:

The proposed lagoon expansion is situated upon lands west of the existing lagoon, between the lagoon and a local waterway known as Drain "A" (see attached). Drain "A" is a designated provincial waterway for operational and maintenance purposes.

While there is no Right-of-Way along Drain "A", Water Management recommends that in order to provide access to the east side of the drain for maintenance and operational purposes, the outside toe of the lagoon dikes not be any closer than 10 metres from the top of the embankment of Drain "A". This offset distance is also being requested for the area of the aeration building and the truck turnaround area.

We also recommend against any construction within 10 metres of the top of the embankment of Drain "A".

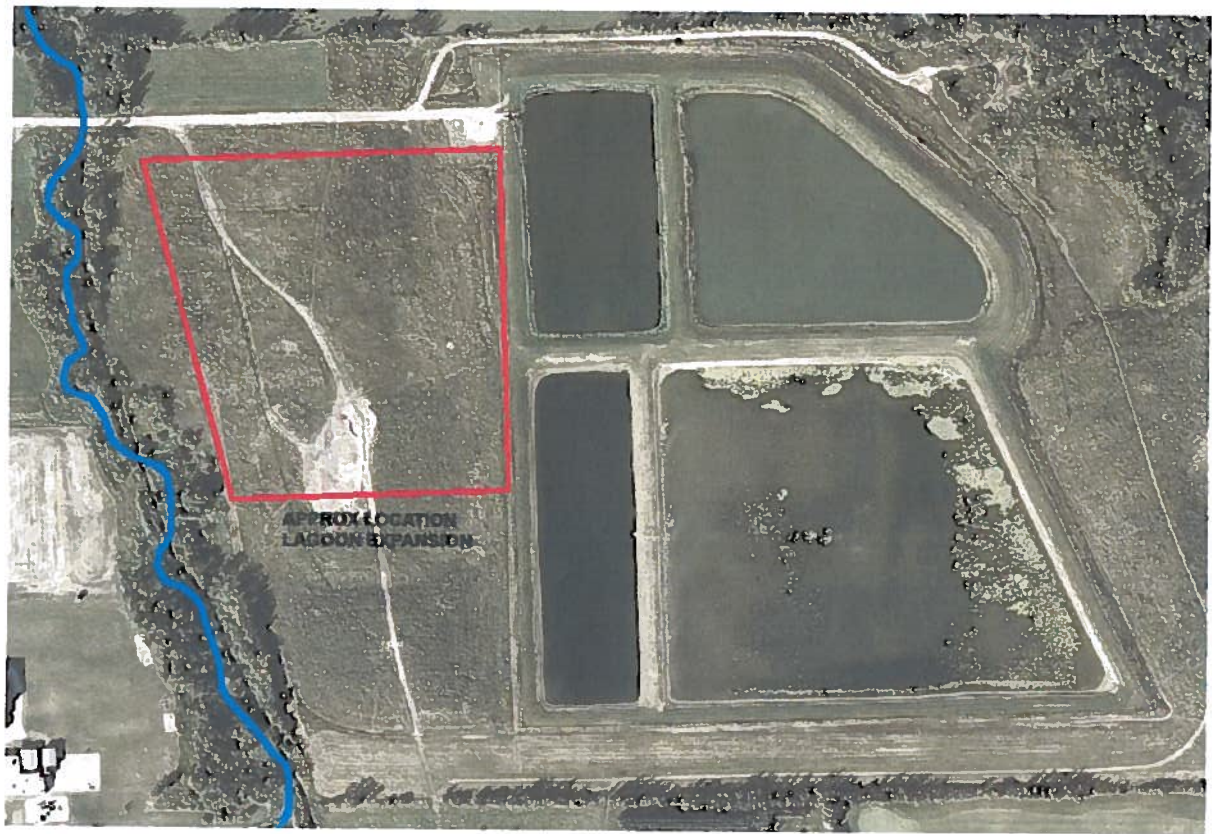
Any works within, or discharge into Drain "A" will require that the proponent apply for a Provincial Waterway Authorization, in accordance with Section 14(4) of The Water Resources Administration Act.

Should you have any questions on the comments above, please contact Brad Allum, Development Review Officer, at (204) 945-2121 or at Brad.Allum@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



Boswick, Robert (CWS)

Subject: FW: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

From: Kubish, Cheryl (OFC)

Sent: February-13-15 8:39 AM

To: Boswick, Robert (CWS)

Subject: RE: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

The Office of the Fire Commissioner recommends that a building and occupancy permit be obtained for the new office & sewage treatment building. The Authority Having Jurisdiction for building and occupancy permits is the RM of La Broquerie.

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

DATE: February 11, 2015

Memorandum

TO: Rob Boswick
 Environmental Approvals Branch
 160-123 Main Street, Winnipeg,
 MB
 R3C 1A5

FROM: David Hay, A/Manager
 Water Quality Management Section
 Water Science and Management Branch
 160-123 Main Street, Winnipeg, MB
 R3C 1A5

Cc Joy Kennedy

TELEPHONE: 945-7096
FACSIMILE: 948-2357
EMAIL: david.hay@gov.mb.ca

**SUBJECT: ENVIRONMENT ACT PROPOSAL FILE: 2833.20 RM OF LA
 BROQUERIE WASTEWATER TREATMENT LAGOON UPGRADE**

- The following effluent standards should be in place for the RM of La Broquerie wastewater treatment lagoon upgrade as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011)*.
 - cBOD 25 mg/L,
 - TSS 25 mg/L,
 - Fecal Coliforms or *Escherichia coli* 200 MPN / 100mL,
 - Total phosphorus <1 mg/L,
 - Ammonia concentrations as outlined in Table 1 of Manitoba Water Quality Standards, Objectives, and Guidelines using Equation 3 and based on effluent pH.

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

- For discharges occurring in April from an aerated lagoon a testing frequency should be required in accordance with the frequency required for similar sized wastewater treatment plants. The Water Quality Management Section recommends that for discharges in April, the Proponent be required to collecting a daily grab sample of the effluent at the final discharge point, during the discharge period, and analyse for:
 - pH
 - temperature (field)
 - total ammonia (expressed as mg/L of N)
- The average total ammonia as N in the Seine upstream of the lagoon is low (0.116 mg/L) and the average un-ionised ammonia as N in April is (0.0012 mg/L) The Water Quality Management Section recommends that for a period of 3 years the proponent be required to collect grab samples for total ammonia as N, temperature, and pH upstream and downstream of the lagoon in the Seine River.
- 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 licensee require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

David Hay

Boswick, Robert (CWS)

Subject: FW: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

From: Sobkowich, Dale (CWS)

Sent: February-02-15 12:22 PM

To: Boswick, Robert (CWS)

Subject: RE: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

Land Management & Planning Section has no comment as no Crown lands are impacted by the proposal.

Dale Sobkowich
Lands Branch

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) 845-0583

February 2, 2015

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

RE: RM of La Broquerie Wastewater Treatment Lagoon Expansion
Client File No. 2833.20

Dear Ms. Braun:

MIT has reviewed the proposal under the Environment Act noted above and we do not have any concern.

However, should any of the works change or the existing access requires any work, under The Highways and Transportation Act, permits are required from MIT for:

- any new, modified or relocated access to PR 210 (Main Street) or PR 302;
- any structures (including advertising signs, wells, septic fields, etc.) on, under or above the ground within the 38.1 meter (125 ft) Controlled Area adjacent to PR 210 (Main Street) or PR 302;
- discharging of water or other liquid materials into a ditch of PR 210 (Main Street) or PR 302; or
- placing any trees or plantings within 15.2 metres (50 feet) of the edge of right-of-way of PR 210 (Main Street) or PR 302.

Should you have any questions on the comments above, 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

Boswick, Robert (CWS)

Subject: FW: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

From: Kelly, Jason (CWS)

Sent: February-02-15 2:07 PM

To: Boswick, Robert (CWS)

Subject: RE: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20

Parks and Protected Spaces Branch has reviewed the proposal submitted pursuant to the *Environment Act* for EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20. The Branch has no comments or concerns to offer.

Boswick, Robert (CWS)

From: Roberts, Dan (CWS)
Sent: January-29-15 2:31 PM
To: Boswick, Robert (CWS)
Subject: EAP Request for comments - Rural Municipality of La Broquerie Lagoon Expansion 2833.20
Attachments: Drainage Licence Application.pdf

Any water control works (drains, culverts, dykes, dams, etc.) associated with this project will require licensing under the *Water Rights Act* – an application is attached for the proponent's 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/areas_of_focus_jan_23_12.pdf

Sincerely,

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

**Application for Licence
to Construct Water Control Works**
FORM 1: Revised: July 14, 2009



Applicant Name (s) _____
 Company Name _____ Telephone No. _____
 Mailing Address _____ Postal Code _____ Cell Phone No. _____
 Location of Residence _____ Fax No. _____ E-mail _____

A. DEFINITIONS

1) Pursuant to *The Water Rights Act*: **WATER CONTROL WORKS** are defined as any dyke, dam, surface or subsurface drain, drainage, improved natural waterway, canal, tunnel, bridge, culvert, borehole or contrivance for carrying or conducting water that (a) temporarily or permanently alters or may alter the flow or level of water, including but not limited to water in a water body, by any means, including drainage, or (b) changes or may change the location or direction of flow of water, including but not limited to water in a water body, by any means, including drainage.

2) **MINOR WATER CONTROL WORKS** (as defined by policy) are those works that meet the following criteria:

Respecting drainage, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Meet industry accepted engineering and construction standards.
- Involve excavation of organic soils only and do not lower water levels more than 30 cm (1 foot) below natural ground level.
- Are proven acceptable to municipal or provincial governments if water control works affect the location or flow of water on municipal or provincial property.
- Are proven acceptable to the landowner of lands on which they are constructed if applicant does not own the land.
- Do not occur in naturally vegetated riparian areas.
- Do not occur on Class 6 and 7 soils as defined by Canada Land Inventory (CLI) Soil Capability for Agriculture (1965).
- Do not alter the natural state of seasonal, semi-permanent or permanent marshes (Classes III, IV, V – Stewart and Kantrud marsh classification system).

Respecting dams, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Meet industry accepted engineering and construction standards.
- Are located within artificially constructed drainage channels.
- Are less than 1.5 meters in height and do not raise the spill elevation of a wetland above natural ground level.

Respecting infrastructure installations, minor water control works:

- Are constructed solely on lands owned or controlled by the applicant without negative impact to other lands.
- Do not alter the natural state of seasonal, semi-permanent or permanent wetlands (Classes III, IV, V – Stewart and Kantrud marsh classification system).
- Meet industry accepted engineering and construction standards.
- Do not change the hydraulic capacity of the structure by more than 15%.
- Includes replacement of culverts at the same location and elevation as the previous culvert.

B. PHOTO/SKETCH/PLANS/DRAWING

All Water Rights Act license applications for construction of WATER CONTROL WORKS must include a photo, sketch, plan and/or drawing that incorporates:

- 1) Location of effected water bodies, maximum depths, approximate sizes, complete or partial drainage
- 2) Proposed drain location, length, depth (D), bottom width (B), and side slopes (S)
- 3) A topographic survey, if the magnitude of the project results in a request for survey information by Water Stewardship staff
- 4) Location of designated spoil sites
- 5) Flow direction of nearby watercourses
- 6) Description and location of proposed control structures and operation schedule (if applicable)
- 7) Road and culvert locations (including culvert sizes)
- 8) Legal descriptions and landowner names of surrounding/affected lands
- 9) North arrow
- 10) Industry accepted engineering and construction standards

For dam projects, except those that meet the definition of minor water control works, a copy of design drawings and decommissioning plan designed by a professional engineer registered to practice in Manitoba. Dams that have the capacity of less than 50 cubic decameters (40 acre feet) must be constructed to industry accepted engineering and construction standards but may be subject to less stringent reporting standards. Please contact either of the Manitoba Water Stewardship offices listed below for further details.

C. LOCATION of Works:

1) Municipality/Parish _____ 2) Conservation District (if applicable) _____

3) Location of water control works (include ¼ section, township and range, river lots, sub-division, or other legal description)

LEGAL SUBDIVISION	QUARTER	SECTION	TOWNSHIP	RANGE	E/W	LOT	BLOCK	PLAN

Or otherwise described as _____

4) Identify water body, natural waterway, or drain that water flows into (if known) _____

D. DESCRIPTION of Works:

1) Describe your proposal and its purpose (Please include any methods to control outflow):

2) Does the proposed project meet the definition of minor water control works? Yes No
 (See definition section A)

3) Is a bio-security plan in place for the subject property? Yes No

4) Will drainage/lowering of a slough, pond or lake be undertaken? Yes No

a. If yes, please indicate the following:

What is the total estimated area of water? _____ Acres _____ Hectares

5) Has a survey been completed for these works? Yes No

a. If yes, please attach a copy to this application

6) Provide details on sediment and erosion control plan(s). _____

E. LANDOWNER Approvals:

1) Proposed water control works are located on: Private Property Municipal Property Crown Land

2) The applicant is the: Registered Landowner Lessee Other: _____

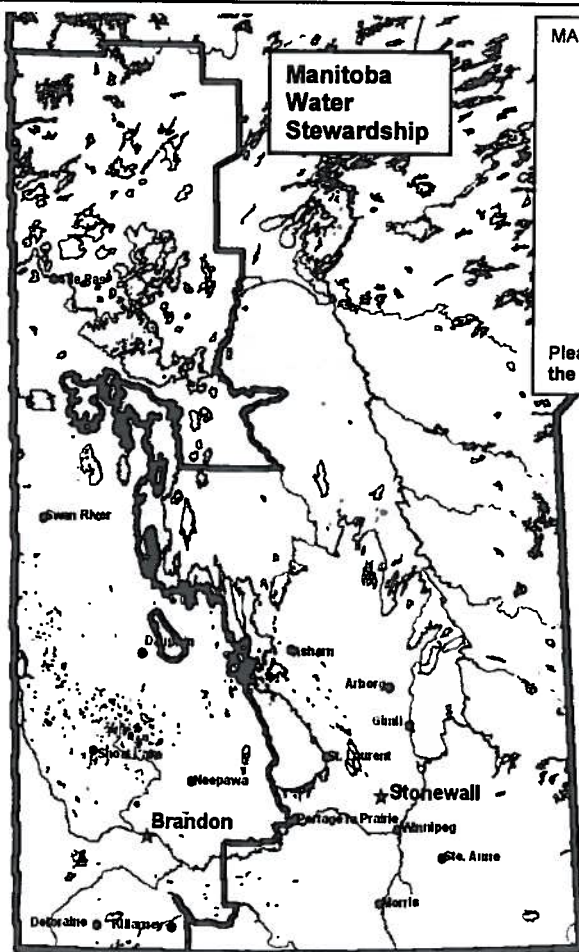
If lessee or other, please provide registered landowner signature of approval below.

3) Will the proposed water control works alter a water body or water level(s) on land you do not own or control?

4) Will the proposed water control works cause water to leave your land?

If yes to either questions 3 or 4, please provide evidence of impacted landowner(s) approval below.

<u>Legal Description</u>	<u>Landowner Name(s)</u> (Please Print)	<u>Signature of Approval</u>	<u>Date Signed</u>
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**MAKE CHEQUES PAYABLE TO: MINISTER OF FINANCE
 FEE OF \$25.00 MUST ACCOMPANY APPLICATION
 CHEQUE AND APPLICATION CAN BE MAILED TO:**

**WATER CONTROL WORKS & DRAINAGE LICENSING
 SECTION**

Box 13, 1129 Queens Avenue
 Brandon, MB R7A 1L9

OR

Box 4558, 293 Main Street
 Stonewall, MB R0C 2Z0

**Please Note: Incomplete applications may be returned to
 the applicant unprocessed.**

 Signature of Applicant

 Print Name

 Signature of Landowner (if different from Applicant)

 Print Name

 Date Signed

FOR	Date Received _____
OFFICE	Amount Received \$ _____
USE	Received By _____
ONLY	MRO# _____