

Webb, Bruce (CWS)

To: Steele, Tania (CWS)
Subject: Carroll Holding Co. Ltd. - Oakland Colony Wastewater Treatment Lagoon File: 5704.00

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

Request for additional information – email of May 16, 2014

Public comments on Environment Act Proposal : no public comments received.

Technical Advisory Committee comments on Environment Act Proposal: (13 pages)

Manitoba Conservation and Water Stewardship – Environmental Programs and Strategies Branch, Air Quality Section, May 8, 2014

Manitoba Conservation and Water Stewardship – Lands Branch, May 13, 2014

Manitoba Conservation and Water Stewardship – Parks and Protected Spaces Branch, May 5, 2014

Manitoba Conservation and Water Stewardship – Wildlife Branch, April 16, 2014

Manitoba Conservation and Water Stewardship – Office of Drinking Water, May 9, 2014

Manitoba Conservation and Water Stewardship – Water Use Licensing Section, April 4, 2014

Manitoba Conservation and Water Stewardship – Water Control Works and Drainage Licensing Section, April 7, 2014

Manitoba Municipal Government – Community and Regional Planning Branch, May 12, 2014

Manitoba Infrastructure and Transportation – Highway Planning and Design Branch, Environmental Services Section, April 14, 2014

Manitoba Health – Medical Officer of Health, May 14, 2014

Office of the Fire Commissioner – April 14, 2014

Bruce.

Webb, Bruce (CWS)

From: Webb, Bruce (CWS)
Sent: May-16-14 12:45 PM
To: 'Jeff Amundson'; 'Daniel Burns'
Subject: Oakland Colony Wastewater Treatment Lagoon File: 5704.00

Hello! The preliminary review of the Environment Act Proposal for the above project has been completed. No public comments were received on the proposal. Several comments from the Technical Advisory Committee are included below for your information; no response is needed from you on these items.

Two design parameters for the facility do not comply with standard design guidelines, and will need to be adjusted in the final design of the facility:

1. When determining the storage volume required for the facility, the volume is calculated using the available live storage of the secondary cell plus one half of the storage volume of the primary cell. This accounts for the fact that even in a two step discharge, the entire volume of the primary cell cannot be discharged, since effluent in the primary cell will not meet the licence's effluent requirements. In a standard two step discharge, the primary cell remains isolated while the live storage volume of the secondary cell is discharged, then the cells are equalized to the same level, the primary cell is again isolated, and the secondary cell is again discharged. As a result, in the current design, the primary cell is appropriately sized to accommodate organic loading, but the available storage volume is overestimated by about 50%.
2. The current design provides for a maximum live storage level 1.5 m above the dead storage level, for a total depth of 1.65 m. The total depth of a facultative lagoon is limited to 1.5 m, including the dead storage level. Furthermore, the outlet conduits are generally placed 0.3 m above the floor of each cell to provide a dead storage depth of 0.3 m rather than 0.15 m. This 0.15 m difference is less critical for a lagoon with a synthetic membrane liner. However, the extra dead storage depth is useful for storing sludge in the primary cell, and for precipitated sludge containing phosphorus in the secondary cell when a phosphorus limit is applied.

Therefore, I request that revised design drawings be provided for the facility that reflect a maximum liquid level of 1.5 m in each cell, and a secondary cell sized to provide a total storage volume of 9,488 m³ including 50% of the primary cell volume. Consideration should also be given to increasing the dead storage in each cell to 0.3 m, although this is not a firm requirement. Electronic drawings provided by email or on CD would be suitable; hard copies are not required.

Thanks!

Bruce.

Bruce Webb, P.Eng.
Water Development and Control Assessment Officer
Environmental Approvals Branch
Conservation and Water Stewardship
Mail: 160 – 123 Main Street (Box 80)
Winnipeg MB R3C 1A5
Couriers: 2nd Floor, 123 Main Street
Winnipeg MB R3C 1A5
Tel: (204) 945-7021
Fax: (204) 945-5229
e-mail: bruce.webb@gov.mb.ca

Technical Advisory Committee Comments:

Manitoba Conservation and Water Stewardship – Water Control Works and Drainage Licensing Section

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

Manitoba Municipal Government – Community and Regional Planning Branch

The RM of Oakland Development Plan contains the following policy:

- 3.3.(20) New solid waste disposal sites and sewage lagoons shall comply with the following development criteria:
- (a) Sites shall comply with provincial environmental site and design standards.
 - (b) Sites shall not adversely affect the recreational amenities of the area.
 - (c) Sites shall not be located in close proximity to residential areas and other non-compatible uses.
 - (d) Sites shall be designed and operated in such a manner so as to ensure that waste is not scattered onto adjacent properties.
 - (e) In order to minimize human exposure to the undesirable effects of such uses as sewage lagoons and solid waste sites, development in the vicinity of these facilities should be limited to open space, agricultural and industrial uses.
 - (f) Existing and proposed solid waste disposal sites and sewage lagoons shall be considered as a Conditional Use.

We recommend that the proponent contact the RM of Oakland regarding compliance of the proposed lagoon with this policy and application for conditional use approval.

DATE: 08 May, 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: Carroll Holding Co. Ltd. – Oakland Colony Waste Water Treatment
Lagoon (File 5704.00)**

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.
- The odour clause is suggested to be included in the License.

Webb, Bruce (CWS)

From: Kaita, Adara (CWS) on behalf of +WPG1212 - Conservation_Circulars (CWS)
Sent: May-13-14 8:52 AM
To: Webb, Bruce (CWS) *BW*
Subject: EA Proposal - Carroll Holding Co. Ltd. - Oakland Colony WWTL - File: 5704.00

Hello Bruce,

The Lands Branch has no concerns with the proposal since the parcels are under private ownership.

Thank you 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)

Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

From: Kelly, Jason (CWS)
Sent: May-05-14 9:46 AM
To: Webb, Bruce (CWS) BW
Cc: Harms, Jenny (CWS)
Subject: RE: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

Parks and Protected Spaces Branch has reviewed the proposal filed pursuant to the *Environment Act* for Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00. 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

Webb, Bruce (CWS)

From: Boissonneault, Caroline (CWS)
Sent: April-16-14 10:27 AM BW
To: Webb, Bruce (CWS)
Subject: Emailing: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12 2014 - File 5704.00
Attachments: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

Hello Bruce,
Wildlife Branch has no concerns or any further comments to add regarding this proposal.
Thank you.
Have a great long weekend.
Caroline Boissonneault
Conservation and Water Stewardship
Wildlife Branch
Tel.: 204-945-6810
Caroline.boissonneault@gov.mb.ca

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

Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12 2014
- File 5704.00

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.

Webb, Bruce (CWS)

From: Stibbard, James (CWS)
Sent: May-09-14 10:05 AM
To: Webb, Bruce (CWS) BW
Subject: Re: 5704.00 Oakland Colony WW Lagoon EAP

Bruce,

I reviewed the above noted EAP. The EAP notes that there are no public water systems downstream of the proposed lagoon discharge until Portage la Prairie. As such, ODW has no concerns. With this EAP or the proposed development. 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: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

From: Matthews, Rob (CWS)

Sent: April-04-14 11:23 AM

To: Tembo, Soni (CWS)

Cc: Webb, Bruce (CWS)

Subject: RE: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

No concerns as the population of the colony is currently too small to trigger a requirement for a water rights licence for their groundwater supply well.

Rob Matthews, WULS, CWS

Webb, Bruce (CWS)

From: Roberts, Dan (CWS)
Sent: April-07-14 2:02 PM BW
To: Webb, Bruce (CWS)
Subject: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00
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 640, 201 Fourth Ave. S., Swan River, MB R0L 1Z0
Cell: (204) 281-2122, Fax: 734-3733

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.

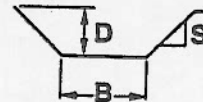
Respecting **infrastructure installations**, minor water control works:

- 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:

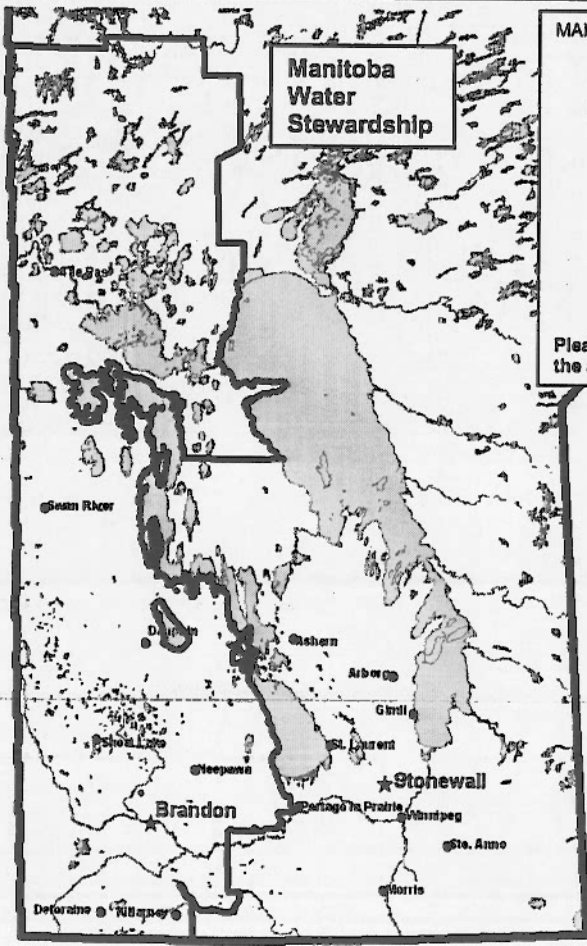
- 1) Describe your proposal and its purpose (Please include any methods to control outflow):

- 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>



**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 OFFICE USE ONLY	Date Received	_____
	Amount Received \$	_____
	Received By	_____
	MFO#	_____

Webb, Bruce (CWS)

Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

From: Sumner, Kevan (MMG)
Sent: May-12-14 2:16 PM *BL*
To: Webb, Bruce (CWS)
Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

I have reviewed this Proposal on behalf of the Community and Regional Planning Branch. The RM of Oakland Development Plan contains the following policy:

3.3.(20) New solid waste disposal sites and sewage lagoons shall comply with the following development criteria:

- (a) Sites shall comply with provincial environmental site and design standards.
- (b) Sites shall not adversely affect the recreational amenities of the area.
- (c) Sites shall not be located in close proximity to residential areas and other non-compatible uses.
- (d) Sites shall be designed and operated in such a manner so as to ensure that waste is not scattered onto adjacent properties.
- (e) In order to minimize human exposure to the undesirable effects of such uses as sewage lagoons and solid waste sites, development in the vicinity of these facilities should be limited to open space, agricultural and industrial uses.
- (f) Existing and proposed solid waste disposal sites and sewage lagoons shall be considered as a Conditional Use.

We recommend that the proponent contact the RM of Oakland regarding compliance of the proposed lagoon with this policy and application for conditional use approval.

Thank you for the opportunity to comment on this Proposal.

Kevan Sumner

Kevan W. Sumner
Regional Manager
Community and Regional Planning - Beausejour Regional Office
Acting Regional Manager
Community and Regional Planning - Brandon Regional Office
Ph: (204) 918-3538
Email: kevan.sumner@gov.mb.ca

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) 945-0593

April 14, 2014

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

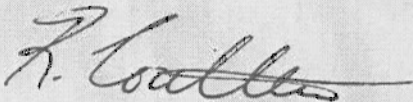
RE: Carroll Holding Co. Ltd - Oakland Colony WWTL
Client File No. 5704.00

Dear Ms. Braun:

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

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)

Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

From: Frykoda, Amy (HHLS)
Sent: May-14-14 4:11 PM
To: Webb, Bruce (CWS) *BW*
Cc: Roberecki, Susan (HHLS)
Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

Hello Bruce

My apologies in the delayed reply (past the May 12th deadline).

No further concerns noted from myself, or brought forward from the local Public Health Inspectors (who I also brought this to).

Sincerely,

Dr. Amy Frykoda, MD, CCFP, MSc

Medical Officer of Health

Manitoba Health

P.O. Box 960

Minnedosa, Manitoba R0J 1E0

ph: (204) 867-8730

fax: (204) 867-2239

email: amy.frykoda@gov.mb.ca

Please consider the environment before printing this email

Webb, Bruce (CWS)

Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

From: Kubish, Cheryl (OFC)
Sent: April-14-14 3:29 PM *BW*
To: Webb, Bruce (CWS)
Subject: FW: Carroll Holding Co. Ltd. - Oakland Colony WWTL - Review and comments request due May 12, 2014 - File: 5704.00

At this time , the Office of the Fire Commissioner has no concerns or comments with respect to the construction and operation of a wastewater treatment lagoon to treat domestic wastewater from the colony.

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