### 2019-08-06

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#### WSP Project No. 191-02990-00

Bruce Webb, P.Eng. Manitoba Sustainable Development Environmental Approvals 1007 Century Street Winnipeg, MB R3H 0W4

### Subject: RM of Ste. Anne Wastewater Treatment Lagoon - Licence Compliance Client ref.: 4095.10 - EAL No. 2849 R

Dear Mr. Webb:

The following letter and enclosed Report are submitted on behalf of the Rural Municipality of Ste. Anne (RM) to satisfy the requirements of Clauses 6 and 7 of their current Environment Act Licence (EAL).

### BACKGROUND

The RM has an existing two-cell wastewater treatment lagoon, originally constructed in 1997. In 2006, J. R. Cousin Consultants Ltd. (JRCC) completed a Wastewater Management Study that looked at a regional lagoon concept for the RM, which included the LUD of Richer and piped services along PR 207. An Environment Act Proposal (EAP) was submitted in 2007, and on September 23, 2008 the Province issued EAL No. 2849. However, the proposed lagoon expansion never materialized, essentially leaving the RM without a relevant EAL because the new Licence lacked transition clauses.

In 2015, a new EAL was issued by Manitoba Sustainable Development (MSD) to remedy the situation. WSP Canada Inc. (WSP) was subsequently retained by the RM to fulfill the requirements of Clauses 6 and 7 of that EAL. Specifically, Clause 6 details the need for an engineering report that either confirms or updates the lagoon organic and hydraulic loadings proposed in the JRCC EAP submission. If the updated loadings resulted in a revision to the lagoon expansion plan, new drawings were to be submitted to MSD to satisfy Clause 7.

### LICENCE COMPLIANCE

The enclosed WSP Report entitled *Lagoon Assessment & Expansion Options Final Report* (dated March 19, 2019) reviews the current and proposed lagoon loadings and provides two (2) expansion options for the RM's consideration. This Report satisfies the requirements of Clause 6.

Of the two (2) options proposed, the RM has elected to modify Option 1 (see Appendix A of the Report) to better suit the available land. The drawing (enclosed) details the proposed expansion layout. This drawing satisfies the requirements of Clause 7.

1600 Buffalo Place Winnipeg, MB Canada R3T 6B8

T: +1 204 477-6650 F: +1 204 474-2864 wsp.com

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In brief, the proposed development is to include the following:

- Construction of a new facultative primary cell.
- Conversion of the existing primary cell into a secondary cell.
- Construction of a new wetland cell (functional design by Native Plant Solutions) to meet the phosphorus limit requirement.
- Inter-cell piping and new discharge structure.
- A new dual truck dump station.

# WATER QUALITY SAMPLING

The construction of a wetland cell will prompt inclusion of the associated sampling clauses in the revised EAL. Since the wetland cell is strictly used for phosphorous polishing, proposed are sampling parameters, locations and frequencies to suit. Table 1 (enclosed) outlines the requested sampling.

### **CLOSING**

In closing, the RM is now in full compliance with the existing EAL, satisfying the outstanding requirements of Clauses 6 and 7. We await further correspondence on the matter and we request the opportunity to review a draft version of the EAL. We anticipate that construction will occur in the year 2020.

Kind regards,

Jason Bunn, P.Eng. Engineer, Wastewater Infrastructure

JB/al

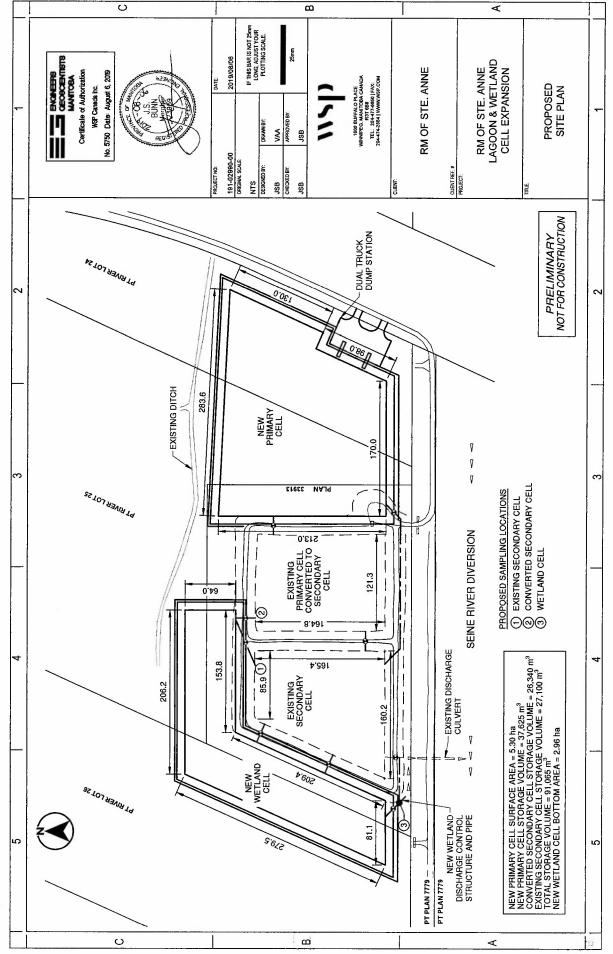
cc: Jennifer Blatz, CAO – RM of Ste. Anne Kevin Medeiros, Operations Manager – RM of Ste. Anne Lisette Ross, M.Sc., PBiol. – Native Plant Solutions

Encl.

# Notice of Alteration Form



Sustainable Development Client File No.: 4095.10 Environment Act Licence No.: 2849 R Legal name of the Licencee: Rural Municipality of Ste. Anne Name of the development: Lagoon and Wetland Cell Expansion Category and Type of development per Classes of Development Regulation: Waste Treatment and Storage Wastewater treatment lagoons Licencee Contact Person: Mailing address of the Licencee: City: Ste. Anne Province: Manitoba Postal Code: R5H 1R1 Phone Number: (204) 422-5929 Fax: (204) 422-9723 Email: cao@rmofsteanne.com Name of proponent contact person for purposes of the environmental assessment (e.g. consultant): Jason Bunn, P. Eng. Phone: (204) 477-6650 Mailing address: 1600 Buffalo Place, Winnipeg, MB R3T 6B8 Fax: Email address: jason.bunn@wsp.com Short Description of Alteration (max 90 characters): Submission to satisfy Clause 6 & 7 of EAL 2849R for the RM of Ste. Anne lagoon. Alteration fee attached: Yes: No: If No, please explain: Signature: Date: 2019-08-06 Printed name: Jason Bunn A complete Notice of Alteration (NoA) Submit the complete NoA to: consists of the following components: Director **Environmental Approvals Branch** Cover letter Manitoba Sustainable Development ✓ Notice of Alteration Form 1007 Century Street 2 hard copies and 1 electronic copy of Winnipeg, Manitoba R3H 0W4 the NoA detailed report (see "Information For more information: Bulletin - Alteration to Developments with Environment Act Licences") Phone: (204) 945-8321 \$500 Application fee, if applicable (Cheque, Fax: (204) 945-5229 payable to the Minister of Finance) http://www.gov.mb.ca/sd/eal Note: Per Section 14(3) of the Environment Act, Major Notices of Alteration must be filed through submission of an Environment Act Proposal Form (see "Information Bulletin - Environment Act Proposal Report Guidelines"



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Table 1: Proposed water quality sampling criteria for the RM of Ste. Anne Wastewater Treatment Lagoon and Wetland Cell Expansion

| Parameter                                 | Location       | First Year of Discharge   | Long-Term Monitoring   |
|---|----------------|---|--|
| Total phosphorous                         | Wetland outlet | -prior to discharge<br>-weekly, during continuous<br>summer discharge       | -prior to discharge<br>-every 2 weeks during<br>continuous summer<br>discharge |
| Unionized ammonia                         | Secondary cell | -prior to discharge<br>-monthly, during<br>continuous summer<br>discharge   | -prior to discharge<br>-monthly, during<br>continuous summer<br>discharge      |
| Carbonaceous biochemical<br>oxygen demand |                |   |  |
| Total suspended solids                    |                |   |  |
| Fecal coliforms                           |                |   |  |
| Total coliforms                           |                |   | -not applicable  |
| Escherichia coli                          |                |   |  |
| Total ammonia nitrogen                    |                |   |  |
| Nitrate + nitrite                         |                |   |  |
| Total Kjeldahl Nitrogen                   |                |   |  |
| Dissolved phosphorous                     |                |   |  |
| Biochemical oxygen demand                 |                |   |  |
| Acute toxicity                            |                | -prior to discharge<br>-quarterly, during<br>continuous summer<br>discharge |  |
| Chronic toxicity                          |                |   |  |