Subject:

RM of Alexander Wasteweater Treatment Lagoon (PR 313) File: 5800.00

in a straine

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

Additional information request - email from Environmental Approvals Branch to KGS Group: January 29, 2016

Public Comments on Environment Act Proposal – Stephan Bouderlique, November 19, 2015 (1 page)

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

Manitoba Conservation and Water Stewardship, Environmental Compliance and Enforcement Branch – December 9, 2015

Manitoba Conservation and Water Stewardship, Climate Change and Air Quality Branch – December 11, 2015 Manitoba Conservation and Water Stewardship, Lands Branch – December 11, 2015

Manitoba Conservation and Water Stewardship, Parks and Protected Spaces Branch – December 2, 2015

Manitoba Conservation and Water Stewardship, Wildlife and Fisheries Branch - November 17, 2015

Manitoba Conservation and Water Stewardship, Water Science and Management Branch, Water Quality Management Section – December 11, 2015

Manitoba Conservation and Water Stewardship, Office of Drinking Water – December 10, 2015 Manitoba Conservation and Water Stewardship, Water Control Works and Drainage Licensing Section – November 19,

2015

Manitoba Infrastructure and Transportation, Highway Planning and Design Branch, Environmental Services Section – November 18, 2015

Canadian Environmental Assessment Agency - November 12, 2015

From: Sent: To: Subject: Webb, Bruce (CWS) January-29-16 9:30 PM 'Shaun Moffatt'; 'Gene Senior' RM of Alexander Wastewaer Treatment Lagoon - PR 313

The public and Technical Advisory Committee review period for this proposal closed on December 11, 2015. One comment was received from a member of the public. Additional information was provided to address the questions identified, and no follow-up questions or concerns were received. Several Technical Advisory Committee comments were received. Some of these resulted in the additional information request provided below. Other comments are provided for your information following the request for additional information.

#### Additional Information Request

Please provide comments on the following items:

- Section 2.5.2 includes references to the construction of a wetland and lagoon within the CL-3 site. Please
  confirm that the wetland construction for site restoration purposes is unrelated to the wastewater treatment
  lagoon, i.e. the constructed wetland is not a component of the wastewater treatment lagoon proposal.
- Section 2.6.3 states that effluent will be discharged to a forested area that will provide nutrient uptake and further polishing of the effluent. Commentary is requested on the sustainability of nutrient uptake/polishing in the forested effluent dispersal area. (See also item 6 below.)
- 3. Section 2.6.3 states that "Since the intermittent discharge period is longer than 30 days, total phosphorus standards will be calculated as a rolling average according to the MWQSOG." Commentary is requested as to why a rolling average would be used rather than the normal discharge requirement whereby the effluent was tested before discharge to ensure that the discharge criterion was met.
- 4. Please confirm that the primary cell has sufficient capacity to receive incoming wastewater for the proposed two month period while the secondary cell is isolated for discharge. Sufficient capacity is also needed for effluent sampling and testing in the isolated secondary cell prior to discharge – perhaps another two weeks.
- 5. Section 4.3 discusses potential groundwater impacts within the footprint of the wastewater treatment lagoon. Were groundwater impacts and mitigation measures also considered for the effluent dispersal area, and if so, what were the conclusions?
- 6. Based upon Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011), a < 1 mg/L TP limit prior to discharge or a demonstrated nutrient reduction strategy should be required. Land application is proposed as a nutrient reduction strategy equivalent to a <1 mg/L total phosphorous limit. Land application of effluent would be subject to the Nutrient Management Regulation (62/2008). As such, the concentration of the effluent, over the duration of the two month discharge period, would need to be known to calculate an application rate. The nutrient profile of the receiving soils would also have to be known. The effluent application rates would need to match the rate of uptake. This mass balance information has not been discussed in the proposal. An unknown application of effluent on land may lead to adverse effects on soil, groundwater or vegetation.</p>
- The consideration in the proposal with regards to potential nutrient management zones N4 restriction is noted. The soil's agricultural capability is 3TD (50) - 7R (30) - 5W (20). This soil type indicates nutrient management

zone N2 as per the Nutrient Management Regulation (62/2008). As such no N4 restrictions apply. However, the agricultural capability of the soil indicates a slope between 5 and 10%; rocky bedrock outcrops, heavy clays, and wet low lying areas within the 13 ha land application area. This soil type suggests the proposed nutrient reduction strategy of land application, to meet Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011), may not be equivalent to a <1 mg/L Total Phosphorous effluent limit. Additionally, a nutrient uptake rate has not been projected. By the soil type, there is concern that effluent may run-off into Rice Creek with little opportunity for nutrient uptake even during a 2 month discharge period. If the effluent should simply run-off into Rice Creek, how could the effectiveness of the nutrient reduction strategy be demonstrated?

- 8. The report talks about releasing effluent overland instead of through a constructed channel/outlet from the lagoon, and that there would be some percolation/absorbing of effluent into the soils and bedrock. Considering it's granitic shield rock with minor soil above, this may not be adequate, especially when this is a *Special Forest* area and the lands in question are coded for *Fisheries* values.
- 9. The location of the lagoon is another area of concern. It does not service any community directly, and over the lifespan of the project hauling costs may be prohibitive. This in conjunction with the point immediately above suggests that an alternative location for the facility may be a viable long-term option.

It should be noted that the maximum depth of effluent in the secondary cell of a facultative lagoon is 1.5 m. This value should be used in all storage calculations for the facility.

#### Items for Your Information

The following items are for your information only; responses are not requested for these items.

#### Manitoba Conservation and Water Stewardship - Lands Branch

- If/when the license is issued for the construction of the WWTL at this location the current operation land use coding (SF/D/T) will need to be amended to include Operational Crown land coding that will accommodate the new land use activity (e.g., XM). Once approved the CWS Regional Land Manager for the Eastern Region will bring the Operational Coding issue to the attention of the BPC #6 Chair, for future BPC code change recommendation.
- The proponent should be advised that any new clearing activity where timber resources will be impacted may be subject to additional timber damage appraisals. It is recommended that the proponent (RM of Alexander) contact the Eastern Regional Forester to arrange for timber accommodation planning for any impacted timber resources that may result from any additional site preparation or expansion activity; where applicable.
- In addition, any negative impacts to the remaining timber resources, as a result of the effluent discharge directly into standing timber located westerly of the cleared area, may be subject to additional timber damage appraisals where it is determined that the effluent is negatively impacting the timber resource. A monitoring program is required to evaluate forest health and reaction to the nutrient loading (effluent) into the forested area. It is recommended that an additional Follow-up Activity be added to section 6, or 6.6 be expanded to specifically monitor for effects on forest health as a result of the direct discharge of effluent into the forested areas.
- The Eastern Region would also like to highlight an existing agreement that currently directs Point du Bois Cottagers to utilize the Rural Municipality of Lac du Bonnet lagoon which Manitoba Conservation & Water Stewardship has contributed too not only in regards to the initial construction costs of that lagoon, but also an agreement that provides a 10 year commitment with yearly funding. Please note that this comment does not

have bearing on the construction site of this lagoon by the RM of Alexander, it should be noted and clarified as the usage of the Lac du Bonnet lagoon may be affected by a minimal amount with the establishment of the closer Lagoon in the RM of Alexander.

If you need further clarification please directly contact Dale Sobkowich – A/Regional Lands Manager for the Eastern Region at (204) 945 6660.

#### Manitoba Conservation – Office of Drinking Water

ODW reviewed the above noted EAP. The proposal notes treated wastewater will flow into a creek which flows into Lac du Bonnet, but gives no information on downstream water users. There are several public and semi-public water systems downstream of this location which use the lake and Winnipeg River as their drinking water sources. The lagoon effluent, if treated to Manitoba Standards, should not pose any problem for these water systems, however, if a major spill of untreated or partially treated wastewater from the lagoon were to occur, it could potentially cause problems for downstream water systems. As such, ODW recommends the contact information for downstream water systems be included in the Emergency Procedures plans for the lagoon system with instructions that, if a major spill of untreated wastewater to occur, the downstream water systems be notified.

Beyond this point ODW has no other concerns with the EAP or proposed development.

#### Manitoba Infrastructure and Transportation - Highway Planning and Design Branch, Environmental Services Section

MIT has reviewed the proposal under the Environment Act noted above and we have the following comments:

• Under The Highways and Transportation Act permits are required from MIT for:

- o any new, modified or relocated access to a Provincial Road;
- 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 Provincial Roads;
- discharging of water or other liquid materials into a ditch of a Limited Access Highway, Provincial Road or Access Road;
- Placing any trees or plantings within 15.2 metres (50 feet) of the edge of right-of-way of a Limited Access Highway, Provincial Road or Access Road.

• Agreements are also required from MIT for any piping placed under PR 313 or within the MIT's right-of-way or Controlled Areas.

For more information, please contact Murray Chornoboy, Regional Planning Technologist, at (204) 346-6287 or MurrayChornoboy@gov.mb.ca.

Bruce.

Subject:

FW: Treatment lagoon (pr 313) file 5800.00

From: Stephan Bouderlique Sent: November-19-15 9:30 AM 77 To: Webb, Bruce (CWS) Subject: Treatment lagoon (pr 313 ) file 5800.00

#### Dear Sir,

In regards to the Notice of Environment act proposal that was posted in the Clipper.

My wife and I live in Rice Creek Bay, which is the Bay that Rice Creek flows into. We are going to be one of the many recipients of the eventual discharge of the effluent coming out of the lagoon. I do understand this is water from the secondary cell which has been standing for 1 year and that it will be going on to a vegetation area before entering the Rice Creek tributary. I have the following questions I hope you can answer to alleviate my concerns of causing damage to the water body we live on.

- Is water tested for bacteria levels before discharge to forested area?

- -How much water is to be discharged at once?
- How much area of forested area does this water travel over to get to Rice Creek?
- What is the impact on wildlife on the discharge forest area?
- Is water tested at Rice Creek falls or the bay area on a consistent basis during discharge?
- Is base line testing to be done prior to discharge?

- Who's on the hook to have this cleaned up if excessive E coli in water after discharge? (this is a high traffic area for recreational persons).

- If there is testing, where can the results be found?

I am looking forward to have the following questions answered.

## Stephan Bouderlique



DATE: December 9, 2015

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

FROM:

Diane Oertel Environmental Compliance and Enforcement Conservation and Water Stewardship Box 4000 Lac du Bonnet, Manitoba R0E 1A0

SUBJECT: RM of Alexander Wastewater Lagoon Environment Act Proposal - File 5800.00 Comments from Environmental Compliance and Enforcement Branch (ECE)

- Section 2.5.2 includes references to the construction of a wetland and lagoon within the CL-3 site. Is the
  purpose of the wetland construction for restoration purposes, or is the intent to incorporate the wetland into
  the design of the wastewater treatment lagoon for additional treatment of nutrients?
- Section 2.6.3 states that effluent will be discharged to a forested area that will provide nutrient uptake and further polishing of the effluent. ECE requests the proponent to comment on the sustainability of nutrient uptake/polishing in the forested effluent dispersal area.
- 3. Section 2.6.3 states that "Since the intermittent discharge period is longer than 30 days, total phosphorus standards will be calculated as a rolling average according to the MWQSOG." ECE requests clarification on whether effluent samples for total phosphorus analysis (TP) will only be collected during discharge to obtain the rolling average. If this is the case, ECE is concerned that this method will not allow for the detection of TP exceedences prior to release of the effluent into the environment, which may result in non-compliance with regulatory and licence standards.

What is the rationale for basing TP concentration on a rolling average, rather than on the analysis of grab samples that are collected prior to effluent discharge?

4. Section 4.3 discusses potential groundwater impacts within the footprint of the wastewater treatment lagoon. Were groundwater impacts and mitigation measures also considered for the effluent dispersal area, and if so, what were the conclusions?



# Memorandum

DATE: 11 December, 2015

- 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: R. M. of Alexander - Waste Water Treatment Lagoon (File 5800.00)

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 provided that the measures cited are implemented.
- Air Quality Section suggests that the EA Clause regarding odour nuisance be included.

From: Sent: To: Subject: +WPG1212 - Conservation\_Circulars (CWS) December-11-15 7:50 AM Webb, Bruce (CWS) Request for review/comment - RM Alexander WWTL - File: 5800.00

Hello Bruce,

Good morning.

Lands Branch- MCWS has the following comments as regards the RM Alexander WWTL (File 5800.00)

- If/when the license is issued for the construction of the WWTL at this location the current operation land use coding (SF/D/T) will need to be amended to include Operational Crown land coding that will accommodate the new land use activity (e.g., XM). Once approved the CWS Regional Land Manager for the Eastern Region will bring the Operational Coding issue to the attention of the BPC #6 Chair, for future BPC code change recommendation.
- The proponent should be advised that any new clearing activity where timber resources will be impacted may be subject to additional timber damage appraisals. It is recommended that the proponent (RM of Alexander) contact the Eastern Regional Forester to arrange for timber accommodation planning for any impacted timber resources that may result from any additional site preparation or expansion activity; where applicable.
- In addition, any negative impacts to the remaining timber resources, as a result of the effluent discharge directly
  into standing timber located westerly of the cleared area, may be subject to additional timber damage
  appraisals where it is determined that the effluent is negatively impacting the timber resource. A monitoring
  program is required to evaluate forest health and reaction to the nutrient loading (effluent) into the forested
  area. It is recommended that an additional Follow-up Activity be added to section 6, or 6.6 be expanded to
  specifically monitor for effects on forest health as a result of the direct discharge of effluent into the forested
  areas.
- The Eastern Region would also like to highlight an existing agreement that currently directs Point du Bois Cottagers to utilize the Rural Municipality of Lac du Bonnet lagoon which Manitoba Conservation & Water Stewardship has contributed too not only in regards to the initial construction costs of that lagoon, but also an agreement that provides a 10 year commitment with yearly funding. Please note that this comment does not have bearing on the construction site of this lagoon by the RM of Alexander, it should be noted and clarified as the usage of the Lac du Bonnet lagoon may be affected by a minimal amount with the establishment of the closer Lagoon in the RM of Alexander.

If you need further clarification please directly contact Dale Sobkowich – A/Regional Lands Manager for the Eastern Region at (204) 945 6660

Kind regards

Winifred Frias Crown Land Programs Administrator Lands Branch Manitoba Conservation and Water Stewardship 200 Saulteaux Crescent, Box 25 Winnipeg, Manitoba R3J 3W3 CANADA

Subject:

FW: Request for review/comment - RM Alexander WWTL - File: 5800.00

From: +WPG1212 - Parks Circulars (CWS) Sent: December-02-15 8:27 AM To: Webb, Bruce (CWS) Subject: RE: Request for review/comment - RM Alexander WWTL - File: 5800.00

Parks and Protected Space Branch has reviewed the proposal submitted pursuant to *The Environment Act* for Request for review/comment - RM Alexander WWTL - File: 5800.00. 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.

Subject:

FW: Request for review/comment - RM Alexander WWTL - File: 5800.00

From: Kiss, Brian (CWS) Sent: November-17-15 3:09 PM To: Webb, Bruce (CWS) Subject: RE: Request for review/comment - RM Alexander WWTL - File: 5800.00

No wildlife related concerns.

-Brian Kiss

Manitoba

DATE: December 11, 2015

Cc

TO: Bruce Webb BV Environmental Approvals Branch 160-123 Main Street, Winnipeg, MB R3C 1A3 Memorandum

FROM:

Joy Kennedy Water Quality Management Section Water Science and Management Branch 160-123 Main Street, Winnipeg, MB R3C 1A5

TELEPHONE: 945-7908 FACSIMILE: 948-2357 EMAIL: joy.kennedy@gov.mb.ca

## SUBJECT: ENVIRONMENT ACT PROPOSAL FILE: 5800.00 RM OF ALEXANDER WASTEWATER TREATMENT LAGOON

- The following effluent standards should be in place for the RM of Alexander 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,
  - < 1 mg/L total phosphorus or demonstrated a nutrient reduction strategy</li>
- Based upon Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011), the proponent should be required to meet a < 1 mg/L TP limit prior to discharge or a demonstrated nutrient reduction strategy. The proponent has proposed land application as a nutrient reduction strategy equivalent to <1 mg/L total phosphorous limit. The approach towards recycling and reusing nutrients to minimize discharge of nutrients to water is appreciated. Land application of effluent would be subject to the Nutrient Management Regulation (62/2008). As such, the proponent would need to know the concentration of the effluent, over the duration of the two month discharge period, to calculate an application rate. The proponent would also need to know the nutrient profile of the receiving soils. The effluent application rates would need to match a rate of uptake. This mass balance information has not been discussed in the proposal. An unknown application of effluent on land may lead to adverse effects on soil, groundwater or vegetation. At this point, the Water Quality Management Section recommends the continued cooperation with the RM of Lac du Bonnet, as regional facilities may be able to provide more advanced wastewater treatment.
- The Water Quality Management Section appreciates the consideration the proponent has made in their proposal with regards to potential nutrient management zones N4 restriction. The soil's agricultural capability, of the proposed development



area, is 3TD (50) - 7R (30) - 5W (20). This soil type indicates nutrient management zone N2 as per the Nutrient Management Regulation (62/2008). As such no N4 restrictions apply. However, the agricultural capability of the soil indicates a slope between 5 and 10%; rocky bedrock outcrops, heavy clays, and wet low lying areas within the 13 ha land application area. This soil type suggests the proposed nutrient reduction strategy of land application, to meet Manitoba Water Quality Standards, Objectives and Guidelines Regulation (196/2011), may not be equivalent to a <1 mg/L Total Phosphorous. Additionally, the proponent has not indicated a nutrient uptake rate. By the soil type, the Water Quality Management Section is concerned that effluent may run-off into Rice Creek with little opportunity for nutrient uptake even during a 2 month discharge period. If the effluent should simply run-off into Rice Creek, how could a proponent confidently demonstrate the effectiveness of the nutrient reduction strategy, trickle discharge, where effluent becomes run-off from 13 ha with 3TD (50) - 7R (30) - 5W (20) soils? At this point, again, the Water Quality Management Section recommends the continued cooperation with the RM of Lac du Bonnet, as regional facilities may be able to provide more advanced wastewater treatment.

 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 license require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

From: Sent: To: Subject: Stibbard, James (CWS) December-10-15 9:43 AM CM Webb, Bruce (CWS) Re: 5800.00 RM of Alexander, Lac du Bonnet New Wastewater Lagoon EAP

#### Mr. Webb,

ODW reviewed the above noted EAP. The proposal notes treated wastewater will flow into a creek which flows into Lac du Bonnet, but gives no information on downstream water users. There are several public and semi-public water system downstream of this location which use the lake and Winnipeg River as their drinking water sources. The lagoon effluent, if treated to Manitoba Standards, should not pose any problem for these water systems, however, if a major spill of untreated or partially treated wastewater from the lagoon were to occur, it could potentially cause problems for downstream water systems. As such, ODW recommends the contact information for downstream water systems be included in the Emergency Procedures plans for the lagoon system with instructions that, if a major spill of untreated wastewater to occur, the downstream water systems be notified.

Beyond this point ODW has no other concerns with the EAP or 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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From: Sent: To: Subject: Roberts, Dan (CWS) November-19-15 10:26 AM Webb, Bruce (CWS) Request for review/comment - RM Alexander WWTL - File: 5800.00

Hi Bruce,

While somewhat outside or the *Water Control Works and Drainage Licensing Section's* mandate, we have concerns in principle with the proposal as it stands now:

- 1) The report talks about releasing effluent overland instead of through a properly constructed channel/outlet from the lagoons, and that there would be some percolation/absorbing of effluent into the soils and bedrock. Considering it's granitic shield rock with minor soil above, we do not believe this is adequate, especially when this is a Special Forest area and the lands in question are coded for Fisheries values. As such, we stress that a properly constructed outlet channel and containment of effluent within the treatment facility's infrastructure would be minimal requirements.
- 2) The location of the lagoons are another area of concern. They are not servicing any community directly, and over the lifespan of the project hauling costs may be prohibitive. This in conjunction with Point #1 suggest that an alternative location for the facility may be a viable long-term option.

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Should you have questions or concerns with the above, please give me a call.

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



#### Infrastructure and Transportation

Highway Planning and Dasign Branch Environmental Services Section 1420 – 215 Garry St., Winnipeg, MB R3C 3P3 T (204) 819-4359 F (204) 845-0593

November 18, 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 Alexander - WWTL Client File No. 5800.00

Dear Ms. Braun:

MIT has reviewed the proposal under the Environment Act noted above and we have the following comments:

- Under The Highways and Transportation Act permits are required from MIT for:
  - o any new, modified or relocated access to a Provincial Road;
  - 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 Provincial Roads;
  - discharging of water or other liquid materials into a ditch of a Limited Access Highway, Provincial Road or Access Road;
  - Placing any trees or plantings within 15.2 metres (50 feet) of the edge of right-of-way of a Limited Access Highway, Provincial Road or Access Road.
- Agreements are also required from MIT for any piping placed under PR 313 or within the MIT's right-of-way or Controlled Areas.

For more information, please contact Murray Chornoboy, Regional Planning Technologist, at (204) 348-6287 or 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



Subject:

FW: Request for review/comment - RM Alexander WWTL - File: 5800.00

From: Sigurdson, Shauna [CEAA] [mailto:Shauna.Sigurdson@ceaa-acee.gc.ca] Sent: November-12-15 4:25 PM To: Webb, Bruce (CWS) Subject: RE: Request for review/comment - RM Alexander WWTL - File: 5800.00

Hello Bruce

As the proposed project is not a desginated activity under CEAA 2012, the Agency will not be providing comments on the proposal.

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Shauna Sigurdson

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

Directrice Régional, Région des Prairies et du Nord Agence canadienne d'évaluation environnementale / Gouvernement du Canada shauna.sigurdson@ceaa-acee.gc.ca / Tel: 780-495-2236/Cel :780-288-2752