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2008 APR 15 11:03:01

MEMORANDUM

ATTN: MN07-075

April 15, 2008

To: Kelly Boutilier, Licensing Officer, Yukon Water Board
From: Paul Inglis, Access Consulting Group
CC: George McNevin, McNevin Management Ltd

Re: Preliminary Adequacy Review for Water Use Application MN07-075

The following is a response to the Preliminary Adequacy Review for Water Use Application MN07-075 (please refer to the Memo from Kelly Boutilier dated April 10th for an outline of the specific questions of clarification):

1. Please see the changes made to page 6 (attached), current water use is estimated at 7000m³.
2. Please see the changes made to page 7 (attached), "and" was an extra word in the phrase "amount of and chlorine" and has been removed from paragraph 3.
3. Please see the changes made to page 8: The current Water Use Licence (WUL), MN06-070, indicates a requirement for the design for the new sewage treatment to be sealed by a Professional Engineer registered in the Yukon. The rock pit designs submitted to the Yukon Water Board (YWB) as a part of the *Application for Type 'B' Water Use Licence Eagle Plains Hotel Water Supply and Waste Water Treatment & Disposal, 2008* (the Application) are currently preliminary and final sealed plans will be submitted to the YWB for review prior to construction.
4. Please see the changes made to page 11 (attached), reference to Fig 3 was changed to Fig 2.
5. Please see the changes made to Table 2 (attached), all other available sampling results have been included.

6. Please see the attached ABA testing results.
7. On Fig 3 the inclusion of Station EP4 was a mistake and has been removed (see updated Figure 3). Station EP3B was included to indicate where an additional sample was taken in 2007 at the recommendation of a Water Inspector. This location is not intended to be included as a water monitoring station and thus was not included in Section 5.5 page 25.
8. Some clarification of the statements regarding water supply from the infiltration well from pages 24 and 25 was requested:

Discussions with the Hotel operators revealed that there has never been a problem with water supply from the infiltration well during winter periods. Discussions with the Hotel operators revealed that there has never been a quantity problem with water supply from the infiltration well during winter periods.

The first of these sentences have been changed to the following and are included in the attached updated page 24:

Discussions with the Hotel operators revealed that there has never been a *quantity* problem with the water supply from the infiltration well during winter periods.
9. Additional grease interceptors will be added to the Eagle Plains Hotel to ensure the removal of solids and grease at points on the sewage collection system as recommended by Pinnacle Environmental Technologies Inc. These grease interceptors (informally called grease traps) are small screened tanks that remove solids and grease and most fats and oils from the wastewater. An updated page 14 (attached) displays the information requested. Effluent samples can be obtained from the pump chamber after the UV treatment.
10. Please see the changes made to page 11 (attached): reference to the outdated document has been removed. The edited page 26 (attached) of the Application shows the effluent targets.
11. The phrase "The licence being applied for would replace WUL MN06-070" was not intended to be taken as a statement that WUL MN06-070 would no longer apply, and

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the Eagle plains Hotel has every intention of fulfilling the requirements and conditions of WUL MN06-070.

12. Please see the updated Spill Response plan with the reference that spills less than 100L are non-reportable removed.
13. Please see the changes made to page 11: "should" was changed to "will". The nutrient burn seen in the disturbed vegetation down gradient from the lagoon was a result of the uncontrolled release of sewage from the Eagle Plains Hotel prior to the construction of the lagoon in 1989. Signs of the vegetation recovering were noted during the 2007 sampling visit. The engineered rock pit is expected to be adequate to accept the effluent from the sewage treatment plant because the rock pit is designed primarily to act as a dispersal area for the effluent. The rock pit is also sited in such a way as to minimize the opportunity for the effluent to come to surface, thus increasing the residence time of the effluent in the soils and allowing for secondary renovation. The mechanical sewage system proposed is a system that meets most of the minimum effluent targets as described in the *Yukon Water Board Licensing Guidelines for Type A Municipal Undertakings*. The Oil and Grease target of no visible sheen will be achieved, primarily through the use of the grease separators. These targets are suitable for a system that is not discharging into surface waters but into a closed subsurface rock pit.

Parameter	Minimum Target Effluent Quality Parameters*	Treatment System Effluent Targets
BOD ₅	45 mg/L	20 mg/L
Total Suspended Solids	60 mg/L	200 mg/L
pH	6-9	6.5 to 7.5
Faecal coliforms	**	>50,000 counts/100ml

* from *Yukon Water Board Licensing Guidelines for Type A Municipal Undertakings*, Table 1
** to be proposed by the applicant

14. Please see point 3.
15. Please see the changes made to page 25: the description of the direct water withdrawal from the Eagle River has been expanded.

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16. Access will take the recommendation under advisement.

17. The limitations of use of the report by third parties are intended in such a way for third parties to be interpreted as those not directly involved in the project. As the Yukon Water Board is the regulatory agency they are not considered third parties. All information included in the report is factual for the board to consider.

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MNE7 075

CLIENT : EBA Engineering Consultants Ltd.
PROJECT : Eagle Plain
CEMI Project # : 0798
Test : Modified Acid-Base Accounting
Date : December 13, 2007

Sample ID	Paste pH	TIC %	CaCO3 NP	S(T) %	S(SO4) %	S(S-2) %	AP	NP	Net NP	Fizz Test
W14101011 Eagle Plain	3.93	<0.01	<0.8	0.63	0.49	0.14	4.4	5.3	9.7	None
Duplicate										
W14101011 Eagle Plain		<0.01		0.61	0.48					

Note:

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CLIENT
PROJECT
CEMI Project #
Test
Date

: EBA Engineering Consultants Ltd.
: Eagle Plain
: 0798
: Metals by Aqua Regia Digestion with ICP Finish
: December 24, 2007

Sample	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
W14101011 Eagle Plain	<0.2	0.53	26	612	<0.5	<5	0.04	1	1	13

Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
28	1.8	1	0.28	<10	0.04	9	20	0.07	30

P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm
233	37	0.6	5	2	8	<5	<0.01	<10	<10

V ppm	W ppm	Zn ppm	Zr ppm
130	<10	93	7

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