



Mackenzie Valley Land and Water Board

7th Floor - 4910 50th Avenue • P.O. Box 2130
YELLOWKNIFE, NT X1A 2P6
Phone (867) 669-0506 • FAX (867) 873-6610

June 14,2011

File: MV2011L3-0001

JP Bechtold and Alison Humphries
Golder Associates

Memo for the Town of Fort Smith water licence renewal

As discussed, the Mackenzie Valley Land and Water Board (MVLWB) is requesting a proposed workplan and budget from Golder Associates on the project described below. Please submit this to Kathy Racher by June 15, 2011.

Project Description:

Recently, the MVLWB recently approved a policy which describes the Board's approach to managing the deposit of waste to the receiving environment through water licence terms and conditions. Effective March 31, 2011, the Water and Effluent Quality Management Policy (the Policy) is being applied to all new and renewal water licence applications including the recent renewal application by the Town of Fort Smith (MV2011L3-0001). At this time, the Board is requesting your services as an independent third-party reviewer to evaluate how to apply the Policy specifically to the Town of Fort Smith's water licence. The Board would like a report or memorandum from Golder and Associates that answers the following questions:

1. The Policy calls for setting EQC for any contaminant or parameter of the waste which has the potential to adversely affect water quality in the receiving environment. Currently the Town of Fort Smith's current water licence (MV2003L3-0006) contains EQC for the following parameters: Suspended Solids (200 mg/L), BOD₅ (300 mg/L), Fecal Coliforms (10⁶ cfu/100mL), oil and grease (no visible sheen) and pH (between 6 and 9). In your professional opinion, are there any other contaminants of concern in the sewage for which it would be appropriate to set an EQC?
2. According to the Policy, EQC are to be set at a level that, at a minimum, will ensure water quality standards for the receiving environment have been met. What, in your professional opinion, would be reasonable water quality standards for the Slave River downstream of the Town of Fort Smith sewage outfall? Please provide a rationale and any assumptions you have made. If there is not enough

information to set water quality objectives at this time, please indicate what information is needed.

3. The Policy states that, on a case-by-case basis, the Board may decide to define a mixing zone between the point of effluent discharge and the point at which water quality standards must be met. In your opinion, is there enough information at this time to reasonably define a mixing zone for the sewage outfall at the Town of Fort Smith? If so, please describe how the mixing zone should be defined and what the main assumptions or uncertainties are in this definition. If not, please indicate what further information and/or studies would be necessary to define a mixing zone in this case.
4. Depending on the responses to the above questions and any other relevant considerations from the Policy, please recommend EQC for TSS, BOD₅, pH, Fecal coliforms and any other parameters identified above for compliance at SNP station# 567-2. Again, please identify any assumptions made in responding to this question.

The requested memorandum needs to be submitted to the Board no later than 5 pm on July 5, 2011. The author of the memo may also be requested to answer questions from reviewers and/or the Board at the planned Public Hearing for the Town of Fort Smith on July 20-21, 2011. The latter can be done in person or by teleconference.

Board staff will provide the following information as well as any other available information as requested:

- Available water quality and quantity data for the Slave River. INAC has been monitoring just upstream of the sewage outfall at the Town of Fort Smith for many years. There is a published report online at: <http://www.ainc-inac.gc.ca/ai/scr/nt/ntr/pubs/SRE-eng.asp> Board staff will contact INAC to see if there is any other data available.
- Raw data from water quality monitoring of the sewage at the end-of-pipe (station SNP 567-2) from 2006 to the present. Samples have been taken monthly and analyzed for TSS, pH, BOD₅, Fecal coliforms and Ammonia.
- Water quantity measurements for the amount of sewage discharge into the Slave River at SNP station #567-2.

Please address all correspondence to Zabey Nevitt, Executive Director of the MVLWB at zabey@mvlwb.com. If you have any questions, please contact Kathy Racher at 867-765-4591.

Sincerely,



Zabey Nevitt
Executive Director

AKAITCHO REGION DISTRIBUTION LIST

Organization	Contact Name	Contact Position/Title	Email/Fax
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City of Yellowknife	Robert Long	City Administrator	rlong@yellowknife.ca
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Deninoo Community Council	Carol Collins	Lands Officer	Carolc.lands@gmail.com
Deninu K'ue First Nation	Rosy Bjornson	IMA Coordinator	imadenegurl@hotmail.com
DFO	Rick Walbourne	Habitat Biologist	Rick.Walbourne@dfo-mpo.gc.ca
Enterprise Settlement Corporation	Allan Flamand	Mayor	Sao_enterprise@northwestel.net
Environment Canada	Not applicable	Central email	ec.ea.nwt@ec.gc.ca
Fort Resolution Métis Council	Gary Bailey	President	Frmc53@yahoo.ca
Fort Smith Métis Council	Ken Hudson	President	fortsmithmetisCouncil@northwestel.net
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GNWT – PWNHC	Glen Mackay	Assessment Archaeologist	Glen_Mackay@gov.nt.ca
Hay River Metis Council	Paul Harrington	President	hrrmc@northwestel.net
INAC – Intergovernmental Affairs	Not applicable	Central email	intergov@inac-ainc.gc.ca
INAC – Mineral & Petroleum Resources Directorate	Angela Norris	Acting Manager	norrisa@inac.gc.ca
INAC – Aboriginal and Territorial Relations	Not applicable	Central email	consultationsupportunit@inac.gc.ca
INAC – Aboriginal and Territorial Relations	James Lawrance	Director	james.lawrance@inac.gc.ca
INAC – Environment and Conservation	Lorraine Seale	Head, Environmental Assessment and Agreement	Lorraine.Seale@inac-ainc.gc.ca
INAC – South Mackenzie District Office	Scott Stewart	Acting District Manager	Scott.Stewart@inac.gc.ca
INAC – South Mackenzie District Office	Charlene Coe	Land Use Administrator	Charlene.Coe@inac-ainc.gc.ca

Organization	Contact Name	Contact Position/Title	Email/Fax
[INAC – Water Resources]	Robert Jenkins	Manager	Robert.Jenkins@inac.gc.ca
Katlodeeche First Nation	Roy Fabian c/o Victoria St. Jean	Chief c/o Lands and Resources Manager	landsnresources@katlodeeche.com
Lutselk'e Dene First Nation	Antoine Michel	Chief	doraenzoe@yahoo.com
MVLWB Public Registry	Not applicable	Registry Clerk	permits@mvllwb.com
North Slave Métis Alliance	Bill Enge c/o Sheryl Grieve	President c/o Environment Manager	lands@nsma.net
Northern Projects Management Office	Matthew Spence	Senior Project Coordinator	Matthew.Spence@cannor.gc.ca
Northern Projects Management Office	Kate Witherly	Project Officer	Kate.Witherly@cannor.gc.ca
Northwest Territory Métis Nation	Chris Heron	Environment Manager	ima.nwtmn@northwestel.net 867-872-2772
[Parks Canada if near East Arm proposed park]	Katherine Cumming	Resource Conservation	Katherine.Cumming@pc.gc.ca
[Parks Canada if near East Arm proposed park]	Gordon Hamre	Advisor, Northern Parks and Sites	Gordon.Hamre@pc.gc.ca
Town of Fort Smith	Jean Soucy	Director of Municipal Services	jsoucy@fortsmith.ca
Salt River First Nations	Frieda Martselos	Chief	ceo@srfn195.com
Smith Landing First Nation	Cheyenne Paulette	Chief	1-867-872-5154
Town of Fort Smith	Brenda Black	Senior Administrative Officer	bblack@fortsmith.ca
Town of Hay River	Terry Molenkamp	Senior Administrative Officer	molenkamp@hayriver.com
WCSS – Employer Services	Susan Abernethy	Manager	SusanA@wcb.nt.ca
West Point First Nation	Abner Cayen	Chief	Fax: (867) 874-2486 Email: wptn@northwestel.net
Yellowknives Dene First Nation	Not applicable	Central email	environment@ykdene.com
Yellowknives Dene First Nation	Todd Slack	Lands and Environment Office	tslack@ykdene.com
Yellowknives Dene First Nation (Dettah)	Eddie Sangris	Chief	Both Fax and Email esangris@ykdene.com Fax: 873-5969
Yellowknives Dene First Nation (Ndilo)	Ted Tsetta	Chief	Both Fax and Email ttsetta@ykdene.com Fax: 873-8545



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FILE NUMBER: MV2011L3-0001

Date: June 17, 2011

To: Distribution List

Organization: Various

Email: Various

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From: Amanda for Kathleen Graham, Regulatory Officer

Number of pages including cover 5

Remarks:

Memo for Town of Fort Smith Water Licence

- Enclosures
- As requested
- For your information
- For your comment
- For your approval

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Amanda Gauthier - MVLWB

From: Kathleen Graham [kgraham@mvlwb.com]
Sent: Friday, June 17, 2011 11:36 AM
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Cc: 'Amanda Gauthier - MVLWB'; permits@mvlwb.com; 'Angela Plautz - MVLWB'
Subject: MV2011L3-0001 - Town of Fort Smith - MVLWB's Request to Golder
Attachments: MV2011L3-0001 - Town of Fort Smith - Letter to Golder.pdf

Hello everyone,

As discussed at the Technical Session yesterday, the MVLWB has retained Golder Associates to recommend Effluent Quality Criteria (EQC) in accordance with the Board's recently approved Water and Effluent Quality Management Policy (see attached letter). Golder's report is due at the same time as interventions from reviewers. The proponent may comment on the evidence in its response to interventions and Golder will be available for questions from all parties at the Public Hearing.

Information, including water quality and quantity data for the Slave River that is required by Golder to complete its recommendations will be forwarded to the entire distribution list in an email later today. Please feel free to use the data/information in your own interventions if you would like.

If you have any concerns or questions about this process, please contact Kathy Racher at 867-765-4591.

Kathleen Graham

Regulatory Officer

Mackenzie Valley Land and Water Board

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Abbreviations:

HS:Host Send	PL:Polled Local	CP:Completed	TS:Terminated by System
HR:Host Receive	PR:Polled Remote	FA:Fail	TU:Terminated by User
MS:Mailbox Save	WS:Waiting To Send	RP:Report	G3:Group3
MP:Mailbox Print	EC:Error Correct		