



August 16, 2010

Ms. Tyree Mullaney  
Regulatory Officer  
Mackenzie Valley Land and Water Board  
Box 2130  
7th Floor - 4922 48th Street  
Yellowknife, NT X1A 2P6

Dear Ms. Mullaney:

**Re: Water Licence MV2001L3-0012 Renewal – Surveillance Network Program  
Amendments**

This is further to the above noted application for the renewal of Water Licence MV2001L3-0012.

You will recall that the application included a number of proposed Surveillance Network Program (SNP) amendments. In some cases information available to Department of Transportation (DoT) staff regarding the location of several of the stations was limited and DoT indicated that follow-up information would be provided. Please refer to the attached, revised table outlining the proposed amendments to the SNP. Revisions to the original table are highlighted for quick reference.

I trust that this will provide sufficient information to allow the processing of our renewal application. If you require further information, however, please contact me at 873-4680 or by e-mail at lee\_stroman@gov.nt.ca.

Sincerely,

A handwritten signature in black ink, appearing to read "Lee Stroman", written over a horizontal line.

Lee Stroman  
A/Regional Airport Manager  
Yellowknife Airport

cc: Rhonda Batchelor, Senior Environmental Affairs Analyst

**Mackenzie Valley Land  
& Water Board**

**File** \_\_\_\_\_

**AUG 23 2010**

**Application #** MV2001L3-0012

**Copied To** JM RB

# Yellowknife Airport Water Licence MV200113-0012 Renewal Application

## Proposed Surveillance Network Program Amendments

### Part 1 – Station Descriptions

Station No.	Proposed Amendment	Rationale
S1	None	
S3	None	
S4	New Station Proposed with following description: Surface water located on Highway #3, near west end of culvert located north of S3	To monitor water quality for the presence of glycols.
Well 3	Change description to: "Groundwater monitoring well located east of ATB tile field." Add UTM location: 631929mE 6929295mN	There are no known monitoring wells located to the East of the ATB, however, a well does exist to the east of the decommissioned tile field.
Well 4	Change description to: "Groundwater monitoring well located northeast of ATB tile field." Add UTM location: 631926mE 6929404mN	There are no known monitoring wells located to the west of the ATB tile field
Well 5	Add UTM location: 631875mE 6929446mN	
SEW 4	Remove station	Well located but is badly damaged and should not be used.
SEW 11	Add UTM location: 631982mE 6928951mN	Well located and appears to be functional.

Station No.	Proposed Amendment	Rationale
MG1	None	
L1	None	
L2	None	
L3	None	
L4	None	
L5	None	
L6	New Station Proposed with following description: Long Lake approximately thirty (30) metres from the shoreline (631987mE, 6929780mN)	To monitor for presence of glycols in the event of discharge of potentially glycol impacted water at S4.
L7	New Station Proposed with following description: Long Lake approximately thirty (30) metres from the shoreline (632007mE, 6929732mN)	To monitor for presence of glycols in the event of discharge of potentially glycol impacted water at S4.
L8	New Station Proposed with following description: Long Lake approximately sixty (60) metres from the shoreline (631967mE, 6929790mN)	To monitor for presence of glycols in the event of discharge of potentially glycol impacted water at S4.
L9	New Station Proposed with following description: Long Lake approximately sixty (60) metres from the shoreline (631993mE, 6929764mN)	To monitor for presence of glycols in the event of discharge of potentially glycol impacted water at S4.

Station No.	Proposed Amendment	Rationale
L10	<p>New Station Proposed with following description:            Long Lake approximately one hundred (100) metres from the shoreline (631993mE, 6929845mN)</p>	<p>To monitor for presence of glycols in the event of discharge of potentially glycol impacted water at S4.</p>
GRF-1	None	
GRTF-1	<p>New Station Proposed with following description:            Glycol Retention and Treatment Facility (GRTF)</p>	<p>In preparation for discharge from GRTF.</p>
GRF-D	None	
GFR-N	<p>Name Change to GRTF-N</p>	<p>To reflect established terminology and sample result identification; and to aid in distinguishing between the two facilities.</p>
	<p>Change location coordinates to 6928350.49mN, 632701.36mE</p>	
GFR-E	<p>Name Change to GRTF-E</p>	<p>To reflect established terminology and sample result identification; and to aid in distinguishing between the two facilities.</p>
	<p>Change location coordinates to 6928303.46mN, 632787.12mE</p>	
GRF-S	<p>Name Change to GRTF-S</p>	<p>To reflect established terminology and sample result identification; and to aid in distinguishing between the two facilities.</p>
	<p>Change location coordinates to 6928270.76mN, 632720.46mE</p>	

Station No.	Proposed Amendment	Rationale
GRF-W	Name Change to GRTF-W	To reflect established terminology and sample result identification; and to aid in distinguishing between the two facilities.
	Change location coordinates to 6928316.84mN, 632650.43mE	

## Part 2 – Sampling and Analysis Requirements

Item #	Proposed Amendment(s)	Rationale
1	None	
2	None	
3	Addition of Station S4	To monitor for the presence of glycol impacted waters to Long Lake
4	Change frequency from weekly to monthly	Monthly sampling is sufficient to determine presence or absence and concentrations where present.
5	Addition of stations L6, L7, L8, L9 and L10.	To monitor for the presence of glycol impacted waters to Long Lake in the event of discharge through S4
6	Addition of Station GRTF-1	In preparation for discharge from GRTF.
7	Change station names as proposed in Part 1	For continuity
	Change frequency from weekly to monthly	Monthly sampling is sufficient to determine presence or absence and concentrations where present.
8	None	
9	None	
10	None	
11	None	
12	None	
13	None	