



Indian and Northern  
Affairs Canada

Affaires indiennes  
et du Nord Canada

**Contaminants and Remediation Directorate**

5103 48th St, Waldron Building  
PO Box 1500, Yellowknife, NT, X1A 2R3

June 25, 2009

**RE: Johnson Point Water Licence N7L1-1824 - Amendment Request**

**NWT Water Board**  
P.O. Box 2531, 125 Mackenzie Road  
Suite 302 Professional Building  
Inuvik, NT, X0E 0T0

**Attention: Sarah McKenzie**

Dear Ms. McKenzie,

During the 2008 field season, the Johnson Point Site Remediation Project consistently encountered residual chlorine levels slightly above the Water Licence parameter of 0.1 mg/L in the treated camp wastewater. Camp operations have been strictly monitored to ensure that only chlorine-free products were used and that wastewater receives extensive treatment including aeration.

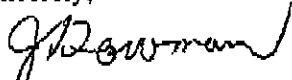
To determine the source of the residual chlorine our Contractor (E Grubens Transport / FGT) submitted a sample from the camp's water source (the un-named river adjacent to the Site) for analysis for residual chlorine. The lab results indicated that elevated residual chlorine is present in the source water from the river (see attached results). This elevated residual chlorine is believed to originate from the minor tidal effect present at the Site along with the extensive seasonal flooding of the flood plain where the river empties into the Prince of Wales Strait (pictures on the following page). To confirm the initial analytical results, CARD has requested that our Designated Representative (AECOM) submit a duplicate sample of the source water for analysis. These results will be forwarded to the Board as they become available.

The Johnson Point Site Remediation Water Licence has recently had a minor change approved to permit chemical treatment for de-chlorination. However, since the residual chlorine is naturally occurring in the source water, further chemical treatment is likely unnecessary to mitigate any possible environmental impacts from the treated wastewater as the residual chlorine level in the treated wastewater is similar to or below that of our source. As such, we are respectfully requesting that the Board consider this amendment application to remove the parameter of Residual Chlorine from our Water Licence.



If further information regarding this request is required, please feel free to contact me at your earliest convenience. I can be reached in the office at (867)669-2423 or on my cell at (867)446-1838. Alternatively you can reach Katherine Silcock, Project Manager, at (867)669-2461.

Sincerely,



Joe Gowman  
Project Officer  
CARD

Enclosure (1)

cc: Glen Sorenson, INAC North MacKenzie District Office, Land Use / Water  
Inspector (by e-mail)



Photo #1 – Air photo of Site looking East on June 15. Extensive seasonal flooding in the flood plain along the left side of the photo.

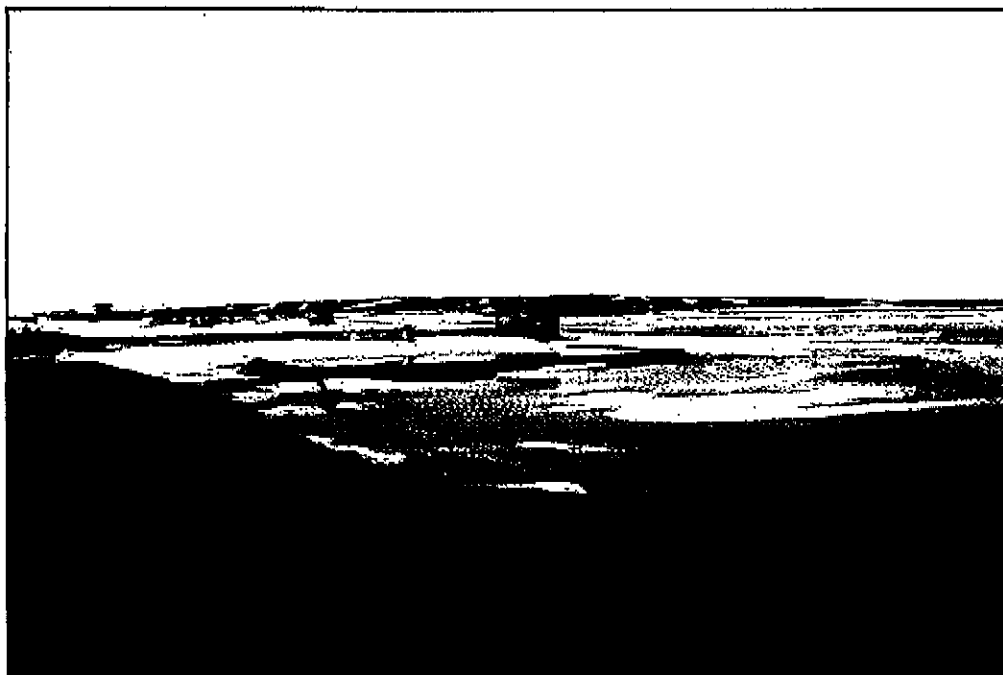


Photo #2 Johnson Point viewed looking West on June 15. Seasonal flooding present throughout the flood plain adjacent to the camp in the background.



Your Project #: JOHNSON POINT  
Site: JOHNSON POINT  
Your C.O.C. #: 08439

**Attention: JIM STEVENS**  
E. GRUBEN'S TRANSPORT  
PO BOX 177  
TUKTOYAKTUK, NT  
CANADA X0E 1C0

Report Date: 2009/06/23

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A931003**  
Received: 2009/06/20, 11:05

Sample Matrix: Water  
# Samples Received: 4

Analytes	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chlorine (Free)	2	N/A	2009/06/23	EENVSOP-00070	HACH 8021
Chlorine (Total)	2	N/A	2009/06/23	EENVSOP-00070	HACH 8167

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

SHELYCE MORRISON, Project Manager  
Email: shelyce.morrison@maxxamanalytics.com  
Phone# (780) 577-7115 Ext.7115

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Total cover pages: 1



Maxxam Job #: A931003  
 Report Date: 2009/06/23

E. GRUBEN'S TRANSPORT  
 Client Project #: JOHNSON POINT  
 Site Reference: JOHNSON POINT  
 Sampler Initials: JS

**RESULTS OF CHEMICAL ANALYSES OF WATER**

Maxxam ID		P39645	P39691	P39692		
Sampling Date		2009/06/18 18:00	2009/06/18 18:00	2009/06/18 18:15		
COC Number		08439	08439	08439		
	Units	JP GW-10	JP GW-11	JP GW-12	RDL	QC Batch

<b>Misc. Inorganics</b>						
Free Chlorine	mg/L	0.16 (1)		0.05 (1)	0.02	3222363
Total Dissolved Chlorine	mg/L		0.10 (2)		0.02	3222574

RDL = Reportable Detection Limit  
 ( 1 ) Sample was past hold time when received.  
 ( 2 ) Sample was past hold time when received.  
 Matrix Spike exceeds acceptance limits for GL2T, due to matrix interference. Reanalysis yields similar results (Recovery: 77%, limits 80-120%)

Maxxam ID		P39693		
Sampling Date		2009/06/18 18:15		
COC Number		08439		
	Units	JP GW-13	RDL	QC Batch

<b>Misc. Inorganics</b>				
Total Dissolved Chlorine	mg/L	<0.02 (1)	0.02	3222574

RDL = Reportable Detection Limit  
 ( 1 ) Sample was past hold time when received.



Maxxam Job #: A931003  
Report Date: 2009/06/23

E. GRUBEN'S TRANSPORT  
Client Project #: JOHNSON POINT  
Site Reference: JOHNSON POINT  
Sampler Initials: JS

**General Comments**

Results relate only to the items tested.



E. GRUBEN'S TRANSPORT  
 Attention: JIM STEVENS  
 Client Project #: JOHNSON POINT  
 P.O. #:  
 Site Reference: JOHNSON POINT

Quality Assurance Report  
 Maxxam Job Number: EA931003

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3222363 LF1	Calibration Check	Free Chlorine	2009/06/23		91	%	80 - 120
	MATRIX SPIKE						
	[P39545-01]	Free Chlorine	2009/06/23		80	%	80 - 120
	BLANK	Free Chlorine	2009/06/23	0.02, RDL=0.02		mg/L	
	RPD [P39545-01]	Free Chlorine	2009/06/23	0		%	20
3222574 LF1	Calibration Check	Total Dissolved Chlorine	2009/06/23		96	%	80 - 120
	MATRIX SPIKE						
	[P39891-01]	Total Dissolved Chlorine	2009/06/23		77 (t)	%	80 - 120
	BLANK	Total Dissolved Chlorine	2009/06/23	<0.02		mg/L	
	RPD [P39891-01]	Total Dissolved Chlorine	2009/06/23	NC		%	20

NC = Non-calculable

RPD = Relative Percent Difference

( 1 ) Please note that the recovery of some compounds are outside control limits however the overall quality control for this analysis meets our acceptability criteria.

Maxxam Analytics International Corporation aka Maxxam Analytics Edmonton, 9331 - 48th Street 1R8 2K4 Telephone (780) 577-7100 FAX (780) 450-4187