Hamlet of Fort Liard Water License MV2009L3-0025 Annual report 2013

January 1st 2013 through December 31, 2013

MAV 1 0 000

March 11, 2014

MAY 1 3 2014

Mackenzle Valley Land & Water Board

Application # MV216913603

Copled To ME 104

The Hamlet continues to work in compliance with terms, conditions and Regulations of license issued March 1, 2010. Quality and consistency of potable water supplied to the community remains in good practice and is maintained in water plant daily operations. Water plant operation, sewage and solid waste disposal facilities operations are staffed on a daily basis. The Hamlet employees 3 certified

plant operators to ensure compliance with water license conditions.

Standard Operating Procedures for the Class 1 Water Plant were prepared and completed by Altime Engineering at the end of 2012 and put into practice in January 2013. Changes made in water plant operation and equipment were relocation of chlorine injection pumps and the related injection line location. Minor problems with UV Filters wiper system were encountered and corrected. Re-painting of the interior of the plant was completed during this reporting period. On-going plant maintenance is performed as needed. Bacteriological water tests are completed regularly with test results submitted monthly to the Environmental Health Officer. The In-Plant testing of Trihalomethanes (THM's) was implemented in January 2013 and is completed and reported monthly. Testing of in service water delivery trucks is completed on a daily basis with potable water service and emergency water service trucks tanks being cleaned and disinfected once or more during the reporting period. Water Plant Chemical and Physical parameter tests were taken with results submitted in June 2013 (copy of test results attached). Test results were re-transmitted in November 2013.

No changes have been made in solid waste site operations. Repairs to temporary wind fencing surrounding the waste trench area have been completed as needed. The garbage disposal trench constructed in 2010/11 is approaching its maximum fill capacity with construction of the next disposal trench area planned for in 2014. Continued sorting of municipal bulk waste of metals, appliances, tires, household hazardous waste and other bulk waste materials is ongoing within the bulk waste disposal area. Work continues on cleanup of the previous municipal waste area in preparation for future site reclamation.

A Sewage Lagoon effluent test of Lagoon #3 was taken in June 2013, test results submitted, and a scheduled decant was performed. Cell to cell lagoon transfers were completed following decant and were conducted as needed throughout the year. Water run off trapped in the lagoon taken out of service in 2008 was tested, results submitted and decant performed in July. Sewage lagoon area clean-up of blown litter and bush growing along lagoon dyke areas was removed during the summer operations period. No modifications or changes were made to sewage lagoon facilities during this reporting period. Regular maintenance has consisted of dyke structure upkeep, ongoing access road grading and blown litter clean=up.

Attachments:

- Monthly Water Consumption Volume 2013
 - Municipal Water Volume 2013
 - Plant operations Volume 2013
- Sewage Disposal Tracking and Volumes 2013
- Solid Waste tracking 2013
- CARO Analytical Services Analysis Annual Water Plant Tests

Alan Harris Manager Municipal Operations Hamlet of Fort Liard

Molly Duntra Acting Chief Administration Officer Hamlet of Fort Liard

Copy of this report to:

MVLWB, Regulatory Officer, Yellowknife AANDC, South Mackenzie Sub-District, Fort Smith

Monthly Water Consumption January thru December 2013 INFLOW Totals – totals obtained daily from Plant well inflow meter

January	1,598,708
February	1,467,137
March	1,624,879
April	1,582,161
May	1,832,303
June	1,819,704
July	2,120,308
August	1,823,704
September	1,598,487
October	1,635,627
November	1,692,673
December	1,715,620

Yearly total 2013:

20,511,311 litres

20,511.31 m3

Fort Liard 2013
Plant Operation water use

Greensand Filter Back		Softner System Backwash Totals:	In Plant Water use Totals:
January	20,186	146,627	2535
February	14,800	135,772	3509
March	22,200	150,634	4848
April	14,800	146,368	5298
Мау	18,500	167,476	19,984
June	14,800	100,140	25,122
July	14,800	189,043	24,618
August	18,500	162,169	26,649
September	14,800	140,519	25,417
October	14,800	72,463	20,506
November	14,800	140,248	9372
December	14,800	<u>151,065</u>	<u>9831</u>
Total litres	197,786	1,702,524	177,689

Fort Liard Water Plant in house total plant water use (Softner and Greensand Filter Backwash):

Total 2,077,999 LITRES

2,078 m3

Fort Liard 2013 2013 Sewage Lagoon Tracking

March 06/13 - 9:30 PM completed transfer Cell #2 to Cell #3

March 07/13 - 1:00 PM started cell transfer Cell #1 to Cell #2

March 11/13 – 10:00 PM completed cell transfer Cell #1 to Cell#2

June 21/13 - received test results from Caro

June 24/13 - Talked with MVLWB and faxed test results

June 24/13 - Started decant lagoon #3, 4:30 PM

June 25/13 - faxed test results to AANDC

July 02/13 - Completed decant cell #3 - estimated volume 17,775 cu m

July 02/13 - Started cell transfer lagoon #2 to #3

July 06/13 - Completed lagoon #2 transfer

July 08/13 – Started cell transfer #1 to #2

July 12/13 - Cell #1 transfer complete

July 18/13 – Started decant from old lagoon (X) 4:00 PM

July 21/13 – Stopped decant, cell to low to keep pumping unattended

July 29/13 – Completed lagoon X decant – estimated volume 7000 cu m

August 14/13 – started transferring old garbage area water into lagoon X

August 27/13 - dug old dump transfer ditch deeper for continuing drainage to lagoon X

December 03/13 - started lagoon 2 to 3 transfer at 5:30 PM

December 06/13 - completed lagoon #2 to #3 transfer at 3:00 PM

December 10/13 - started lagoon #1 - #2 transfer at 2:30 PM

December 13/13 - completed lagoon #1 transfer

Quantities of sewage discharged during decant operation

June 24 – July 02

Cell #3 decant:

estimated 17775 cu m

July 18 - 21 and July 28 - 29

Out of service lagoon (X) decant:

estimated 7000 cu m

Total estimated 2013 decant: 24,775 cu m

Week of	Loads	Cubic Meters	Week of	Week of Loads
Tuesday, January 01, 2013	3	30	Monday, November 11, 2013	Monday, November 11, 2013 3
Monday, January 07, 2013	3	30	Monday, November 18,2013	Monday, November 18,2013 2
Monday, January 14, 2013	2	20	Monday, November 25, 2013	Monday, November 25, 2013 3
Monday, January 21, 2013	2	20	Monday, December 02, 2013	Monday, December 02, 2013 2
Monday, January 28, 2013	2	20	Monday, December 09, 2013	Monday, December 09, 2013 2
Monday, February 04, 2013	3	30	Monday, December 16, 2013	• • • • • • • • • • • • • • • • • • • •
Monday, February 11, 2013	2	20	Monday, December 23, 2013	Monday, December 23, 2013 3
Monday, February 18, 2013	2	20	Monday, December 30, 2013	Monday, December 30, 2013 <u>3</u>
Monday, February 25, 2013	2	20		20
Monday, March 04, 2013	2	20		
Monday, March 11, 2013	3	30		
Monday, March 18, 2013	2	20		106
Monday, March 25, 2013	2	20		<u>20</u>
Monday, April 01, 2013	2	20	Total	Total 126
Monday, April 08, 2013	2	20		
Monday, April 15, 2013	3	30		
Monday, April 22, 2013	3	30		
Monday, April 29, 2013	2	20		
Monday, May 06, 2013	3	30		
Monday, May 13, 2013	2	20		
Monday, May 20, 2013	2	20		
Monday, May 27, 2013	3	30 20		
Monday, June 03, 2013 Monday, June 10, 2013	2 2	20		
Monday, June 17, 2013	2	20		
Monday, June 24, 2013	3	30		
Monday, July 01, 2013	2	20		
Monday, July 08, 2013	2	20		
Monday, July 15, 2013	3	30		
Monday, July 22, 2013	2	20		
Monday, July 29, 2013	2	20		
Monday, August 05, 2013	2	20		
Monday, August 12, 2013	2	20		
Monday, August 19, 2013	2	20		
Monday, August 26, 2013	3	30		
Monday, September 02, 2013	3	30		
Monday, September 9,2013	2	20		
Monday, September 16, 2013	3	30		
Monday, September 23, 2013	3	30		
Monday, September 30, 2013	2	20		
Monday, October 07, 2013	3	30		
Monday, October 14, 2013	2	20		
Monday, October 21, 2013	2	20		
Monday, October 28, 2013	3	20		
Monday, November 04, 2013	2	<u>30</u>		
-	106	1060		



CERTIFICATE OF ANALYSIS

REPORTED TO

Fort Liard, Hamlet of

174 Valley Main Street

Fort Liard, NT X0G 0A0

TEL

1-867-770-4104

FAX

1-867-770-4004

ATTENTION

Alan Harris

WORK ORDER

RECEIVED / TEMP

3060675

PO NUMBER

PROJECT INFO

Annual Water Plant Tests

nt Tests REPORTED

Jun-12-13 11:05 / 12°C Jun-19-13

COC NUMBER

A00573

General Comments:

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

Issued By:

Jennifer Shanko, AScT For Doug Johnson

Business Manager, Edmonton

Please contact CARO if more information is needed or to provide feedback on our services.

Locations:

#110 4011 Viking Way Richmond, BC V6V 2K9 Tet: 604-279-1499 Fax: 604-279-1599 #102 3677 Highway 97N Kelowna, BC V1X 5C3 Tel: 250-765-9646 Fax: 250-765-3893

Edmonton, AB T5S 1H7

17225 109 Avenue

Tel: 780-489-9100 Fax: 780-489-0700

BOLDTED, WWW.



ANALYSIS INFORMATION

REPORTED TO PROJECT

Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER REPORTED 3060675 Jun-19-13

	Method Reference (* =	Method Reference (* = modified from)				
Analysis Description	Preparation	Analysis	Location			
Alkalinity, total	N/A	APHA 2320 B	Edmonton			
Carbon, Dissolved Organic	N/A	APHA 5310 B	Edmonton			
Carbon, Total Organic in Water	N/A	APHA 5310 B	Edmonton			
Chloride in Water by IC	N/A	APHA 4110 B	Edmonton			
Colour, Apparent	N/A	APHA 2120 B	Edmonton			
Conductivity in Water	N/A	APHA 2510 B	Edmonton			
Cyanide, Total in Liquids	APHA 4500-CN G	APHA 4500-CN E	Kelowna			
Extractable Metals	APHA 3030 C *	APHA 3125 B	Richmond			
Fluoride in Water by IC	N/A	APHA 4110 B	Edmonton			
Hardness as CaCO3 (CALC)	N/A	APHA 2340 B	Edmonton			
Major Cations (Dissolved)	APHA 3030 B	APHA 3120 B	Edmonton			
Nitrate-N in Water by IC	N/A	APHA 4110 B	Edmonton			
oH in Water	N/A	APHA 4500-H+ B	Edmonton			
Sulfate in Water by IC	N/A	APHA 4110 B	Edmonton			
Total Dissolved Solids	N/A	APHA 2540 C *	Edmonton			
Total Suspended Solids	N/A	APHA 2540 D *	Edmonton			
Trihalomethanes	EPA 5030B / 5021A	APHA 6200 B	Richmond			
Turbidity	N/A	APHA 2130 B	Edmonton			

Note: The numbers in brackets represent the year that the method was published/approved

Method Reference Descriptions:

APHA

Standard Methods for the Examination of Water and Wastewater, American Public Health

Association

EPA

United States Environmental Protection Agency Test Methods

Glossary of Terms:

MRL

Method Reporting Limit

< Less than the Reporte

Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to

various factors such as dilutions, limited sample volume, high moisture, or interferences

Color Unit

Colour referenced against a platinum cobalt standard

mg/L

Milligrams per litre

NTU pH units Nephelometric Turbidity Units pH < 7 = acidic, ph > 7 = basic

uS/cm Microsiemens per centimeter



SAMPLE ANALYTICAL DATA

REPORTED TO PROJECT

Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER 3060675

REPORTED

Analyte	Result / Recovery	MRL / Units	Prepared	Analyzed	Notes
Sample ID: Raw water (306067:	5-01) [Water] Sampled: Jun-1	1-13 10:05			
Major Cations (Dissolved)					
Calcium, dissolved	90.9	0.1 mg/L	N/A	Jun-13-13	
Magnesium, dissolved	16.7	0.05 rng/L	N/A	Jun-13-13	
Sodium, dissolved	11.6	0.05 mg/L	N/A	Jun-13-13	
Anions					
Alkalinity, Total as CaCO3	259	1 mg/L	N/A	Jun-12-13	
Chloride	8.1	0.5 mg/L	N/A	Jun-14-13	• • •
Fluoride	< 0.1	0.1 mg/L	N/A	Jun-14-13	a destric
Nitrogen, Nitrate as N	< 0.05	0.05 mg/L	N/A	Jun-14-13	НТ
Sulfate	37.5	0.5 mg/L	N/A	Jun-14-13	MIN # 4 110
General Parameters	- Made Made and				*
Carbon, Total Organic	*	1 mg/L	N/A	Jun-13-13	
Carbon, Dissolved Organic	7	1 mg/L	N/A	Jun-13-13	
. Ya	50	5 Color Unit	N/A	Jun-13-13	
Colour, Apparent Conductivity (EC)	579	1 uS/cm	N/A	Jun-13-13	18.4
Syanide, total	< 0.010	0.010 mg/L	Jun-18-13	Jun-18-13	
oH	7.60	0.05 pH units	N/A	Jun-13-13	HT
Solids, Total Dissolved	352	10 mg/L	N/A	Jun-18-13	
Solids, Total Suspended	< 2	2 mg/L	N/A	Jun-17-13	- 1 min + - 1
urbidity	6.1	0.1 NTU	N/A	Jun-13-13	
Control of the Contro	is accommended. The second of the second	and the second s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Calculated Parameters	- 0.004	2.204	A1/A	h 11.4	
otal Trihalomethanes	< 0.004	0.004 mg/L	N/A	N/A	
otal Trihalomethanes (as CHCl3)	< 0.003	0.003 mg/L	N/A	N/A	***
lardness, Total (as CaCO3)	296	0.46 mg/L	. N/A	NA	4.6-11
xtractable Metals					
luminum, extractable	0.009	0.005 mg/L	Jun-14-13	Jun-17-13	
rsenic, extractable	< 0.0005	0.0005 mg/L	Jun-14-13	Jun-17-13	
arium, extractable	0.534	0.005 mg/L	Jun-14-13	Jun-17-13	
admium, extractable	0.00030	0.00001 mg/L	Jun-14-13	Jun-17-13	
hromium, extractable	< 0.0005	0.0005 mg/L	Jun-14-13	Jun-17-13	W.1
opper, extractable	0.0003	0.0002 mg/L	Jun-14-13	Jun-17-13	
on, extractable	1.37	0.01 mg/L	Jun-14-13	Jun-17-13	• • •
ead, extractable	< 0.0001	0.0001 mg/L	Jun-14-13	Jun-17-13	
anganese, extractable	0.128	0.0002 mg/L	Jun-14-13	Jun-17-13	
ercury, extractable	< 0.00002	0.00002 mg/L	Jun-14-13	Jun-17-13	
elenium, extractable	< 0.0005	0.0005 mg/L	Jun-14-13	Jun-17-13	
anium, extractable	0.00116	0,00002 mg/L	Jun-14-13	Jun-17-13	
no, extractable	0.015	0.004 mg/L	Jun-14-13	Jun-17-13	
latile Organic Compounds (VOC)					
omodichloromethane	< 0.001	0.001 mg/L	N/A	Jun-18-13	
omoform	< 0.001	0.001 mg/L		Jun-18-13	
Noroform	< 0.001	0.001 mg/L		Jun-18-13	
promochloromethane	< 0.001	0.001 mg/L	**	Jun-18-13	* 1



SAMPLE ANALYTICAL DATA

REPORTED TO PROJECT

Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER REPORTED

3060675 Jun-19-13

Analyte	Result / Recovery	MRL/ Limit Units	Prepared	Analyzed	Notes
Sample ID: Raw water (3060675-01) [Water] Sampled: Jun-11-	13 10:05, Continued			
Volatile Organic Compounds (VOC), Cont.	inued				
Surrogate: Toluene-d8	89 %	80-120	N/A	Jun-18-13	
Surrogate: 4-Bromofluorobenzene	87 %	80-120	N/A	Jun-18-13	

Sample / Analysis Qualifiers:

HT Sample prepared / analyzed outside of the recommended holding time.



REPORTED TO PROJECT

Fort Liard, Hamlet of Annual Water Plant Tests

WORK ORDER

3060675

REPORTED

Jun-19-13

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): Laboratory reagent water is carried through sample preparation and analysis steps. Method Blanks indicate
 that results are free from contamination, i.e. not biased high from sources such as the sample container or the laboratory
 environment
- Duplicate (Dup): Preparation and analysis of a replicate aliquot of a sample. Duplicates provide a measure of the analytical method's precision, i.e. how reproducible a result is. Duplicates are only reported if they are associated with your sample data.
- Blank Spike (BS): A known amount of standard is carried through sample preparation and analysis steps. Blank Spikes, also known as laboratory control samples (LCS), are prepared from a different source of standard than used for the calibration. They ensure that the calibration is acceptable (i.e. not biased high or low) and also provide a measure of the analytical method's accuracy (i.e. closeness of the result to a target value).
- Standard Reference Material (SRM): A material of similar matrix to the samples, externally certified for the parameter(s) listed.
 Standard Reference Materials ensure that the preparation steps in the method are adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	RPD	RPD Limit	Notes
Anions, Batch B3F0488									
Blank (B3F0488-BLK1)			Prepared	d: Jun-12-1	3, Analyze	d: Jun-12-	-13		
Alkalinity, Total as CaCO3	3	1 mg/L		_,					BLK
LCS (B3F0488-BS1)			Prepared	f: Jun-12-1	3, Analyżę	d: Jun-12-	-13		
Alkalinity, Total as CaCO3	243	1 mg/L	250		97	94-106			
Anions, Batch B3F0560									
Blank (B3F0560-BLK1)			Prepared	l: Jun-14-1:	3, Analyze	d: Jun-14-	13		
Chloride	< 0.5	0.5 mg/L	······································	······			······································		· · · · · · · · · · · · · · · · · · ·
Fluoride	< 0.1	0.1 mg/L					*		
Nitrogen, Nitrate as N	< 0.05	0.05 mg/L							
Sulfate	< 0.5	0.5 mg/L					,		£#
Blank (B3F0560-BLK2)			Prepared	: Jun-14-13	, Analyze	d: Jun-14-	13		
Chloride	< 0.5	0.5 mg/L							
Fluoride	< 0.1	0.1 mg/L							
Nitrogen, Nitrate as N	< 0.05	0.05 mg/L							
Sulfate	< 0,5	0.5 mg/L							
Blank (B3F0560-BLK3)			Prepared:	Jun-14-13	, Analyzęd	l: Jun-14-1	3		
Chloride	< 0.5	0.5 mg/L				T-11			
Fluoride	< 0.1	0.1 mg/L							
itrogen, Nitrate as N	< 0.05	0.05 mg/L					*****		***
Sulfate	< 0.5	0.5 mg/L						~	
Blank (B3F0560-BLK4)			Prepared:	Jun-14-13	. Analyzed	: Jun-14-1	3		
inloride	< 0,5	0.5 mg/L					70		
luoride	< 0.1	0.1 mg/L					* * * * * * * * * * * * * * * * * * *		**** ****
litrogen, Nitrate as N	< 0.05	0.05 mg/L				* ** **	****		
The same of the sa	< 0.5	0.5 mg/L							



PROJECT

REPORTED TO Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER 3060675

REPORTED

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	RPD	RPD Limit	Notes
Anions, Batch B3F0560, C	ontinued								
Blank (B3F0560-BLK5)			Prepared	l: Jun-14-1	3, Analyze	d: Jun-14	∟ 13		
Chloride	< 0.5	0,5 mg/L							
Fluoride	< 0.1	0,1 mg/L							*
Nitrogen, Nitrate as N	< 0.05	0,05 mg/L					*****		a water -
Sulfate	< 0.5	0,5 mg/L			*******				
LCS (B3F0560-BS1)			Prepared	: Jun-14-1	3, Analyzeo	1: Jun-14	-13		
Chloride	9,8	0.5 mg/L	10.0		98	91-114			
Fluoride	1.0	0.1 mg/L	1.00		103	75-118		····	4 *1
Nitrogen, Nitrate as N Sulfate	1.00 48.6	0.05 mg/L 0.5 mg/L	1.00 50.0		100 97	88-114 92-117			
LCS (B3F0560-BS2)	The state of the s			Jun-14-13	, Analyzed		-13		retregues to o
Chloride	10.2	0,5 mg/L	10.0		102	81-114			
Fluoride	1.0	0.1 mg/L	1.00		105	75-118	,		
Nitrogen, Nitrate as N	1.06	0.05 mg/L	1.00		106	38-114			
Sulfate .	50.1	0.5 mg/L	50.0		100	92-117			
Extractable Metals, Batch B Blank (B3F0572-BLK1)	33F0572		Prepared:	Jun-14-13	, Analyzed	Jun-17-	13		
Aluminum, extractable	< 0.005	0.005 mg/L							
Arsenic, extractable	< 0.0005	0.0005 mg/L					*		
Barium, extractable	< 0.005	0.005 mg/L							•
Cadmium, extractable	< 0.00001	0.00001 mg/L							
Chromium, extractable	< 0.0005	0.0005 mg/L							m
Copper, extractable	< 0.0002	0.0002 mg/L							11. 1.44
ron, extractable	< 0.01 < 0.0001	0.01 mg/L					1 MIN - 1 - 3		
_ead, extractable Manganese, extractable	< 0.0001	0.0001 mg/L 0.0002 mg/L			.,				f refine for
Mercury, extractable	< 0.00002	0.00002 mg/L	- and a consense who was provided the state of the				. ***		
Selenium, extractable	< 0.0005	0.0005 mg/L						* ***	
Jranium, extractable	< 0.00002	0.00002 mg/L							A 48 - 18*
Zinc, extractable	< 0.004	0.004 mg/L							
Duplicate (B3F0572-DUP1)	Sou	rce: 3060675-01	Prepared:	Jun-14-13,	Analyzed:	Jun-17-1	3		
luminum, extractable	< 0.005	0.005 mg/L		0.009		.,		20	
rsenic, extractable	< 0.0005	0.0005 mg/L	<	0.0005	W. 1. 1000 A.M.		g pr	20	
larium, extractable	0,514	0.005 mg/L		0.534			4	20	
admium, extractable	0.00027	0.00001 mg/L		0.00030			an warm man and the	20	
hromium, extractable	< 0.0005 0.0002	0.0005 mg/L 0.0002 mg/L		0.0005 0.0003				20	
opper, extractable on, extractable	1.31	0.0002 mg/L 0.01 mg/L		1.37	***		2 - 20 - 100	20 20	
ead, extractable	< 0.0001	0.0001 mg/L	<	0.0001				20	
langanese, extractable	0.123	0.0002 mg/L	***	0.128			4	20	***
ercury, extractable	< 0.00002	0.00002 mg/L	e (00002				20	
elenium, extractable	< 0.0005	0.0005 mg/L		0.0005			*****	20	
ranium, extractable	0.00111	0.00002 mg/L		00116				20	
nc, extractable	0.015	0.004 mg/L		0.015				eo	
atrix Spike (B3F0572-MS1)		ce: 3060675-01	Prepared: Ju						
senic, extractable	0.188	_ 0,0005 mg/L		0.0005		-117			
arium, extractable	1,3 9 0.0959	0.005 mg/L		0.534		-114 -113			
admium, extractable hromium, extractable	0.0959	_0,00001 mg/L _0,0005 mg/L		00030 0005		-113			•
opper, extractable	0.393	0.0003 mg/L				-117			
on, extractable	3.19	0.01 mg/L				130			
	AND THE RESERVE AND ADDRESS OF THE PARTY OF						11 11		



REPORTED TO PROJECT

Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER 3080675 REPORTED

Jun-19-13

PROJECT Ann	uai vvater Piant	lests					REF	ORTED	J	Jun-19-13
Analyte		Result	MRL Units	Spike Level	Source Result	% REC	REÇ Limit	RPD	RPD Limit	Notes
Extractable Metals, Batch	B3F0572, Contin	ued								
Matrix Spike (B3F0572-MS	1), Continued	Sou	irce: 3060675-01	Prepared	d: Jun-14-1	3, Analyze	d: Jun-17	-13		
Lead, extractable		0.197	0.0001 mg/L	0.200	< 0.0001	99	37-113			
Manganese, extractable		0.506	0.0002 mg/L	0.400	0,128	95	61-136	B.C.		
Selenium, extractable		0.0949	0.0005 mg/L	0.100	< 0.0005	95	35-121			
Zinc, extractable		0.955	0,004 mg/L	1,00	0.015	94	82-120			an American in
Reference (B3F0572-SRM1)			Prepared	l: Jun-14-13	3, Analyze	d: Jun-17-	13		
Aluminum, extractable	***	0.244	0.005 mg/L	0.233		105	58-142			
Arsenic, extractable		0.445	0.0005 mg/L	0.438	- var.	102	81-119			*.**
Barium, extractable		3.36	0.005 mg/L	3.35		100	83-117		•	
Cadmium, extractable	// ec e*	0.233	0.00001 mg/L	0.224		104	83-117	. •		
Chromium, extractable	- 240 62.77	0.462	0.0005 mg/L	0.437	4 **	106	81-119		1 **	
Copper, extractable		0.919	0.0002 mg/L	0.844	«	109	34-116		* *	
Iron, extractable		1.36	0.01 mg/L	1,29	a remark drawn a se	106	126			· ·
Lead, extractable		0.123	0.0001 mg/L	0.112		110	72-128			A
Manganese, extractable	# - d# - C -	0.367	0.0002 mg/L	0.345		106	84-116	18 11 May 4		.,
Selenium, extractable	****	0.0339	0.0005 mg/L	0.0331		102	70-130			
Uranium, extractable		0.281	0.00002 mg/L	0.286		106	85-115	4.11		
Zinc, extractable		0.912	0.004 mg/L	0.881		104	72-128		•	
LCS (B3F0485-BS1)				Prepared:	Jun-13-13,	Analyzed	: Jun-13-1	3		
Colour, Apparent	14 1 1	20	5 Color Unit	20,0		100	98-102	*****		
Duplicate (B3F0435-DUP1)		Sour	ce: 3060675-01	Prepared:	Jun-13-13,	Analyzed:	: Jun-13-1	3		
Colour, Apparent		50	5 Color Unit		50		A DECEMBER OF THE PERSON OF TH	× 1	5	
eneral Parameters, Batch E	33F04 37									
Blank (B3F0437-BLK1)				Prepared:	Jun-13-13,	Analyzed:	Jun-13-13	3		
urbidity		< 0.1	0.1 NTU					-1 - (40.4.4)		
.CS (B3F0437-BS1)				Prepared: 、	Jun-13-13.	Analyzed:	Jun-13-13	}		
urbidity		25.0	0.1 NTU	25.0		100 9	3-106			
uplicate (B3F0487-DUP1)		Sourc	e: 3060675-01	Prepared: .	Jun-13-13, /	Analyzed:	Jun-13-13	l	-	
urbidity		6.2	0.1 NTU		6.1			1	12	
and Demonstrate Botch B	250460									
eneral Parameters, Satch B	37 0-444									
lank (B3F0468-BLK1)				Prepared: J	un-13-13, A	\nalyzed:	Jun-13-13			
arbon, Total Organic		<1	1 mg/L							
lank (B3F0468-BLK2)				Prepared: J	un-13-13, A	Analyzed: .	Jun-13-13			
arbon, Total Organic		< 1	1 mg/L							
lank (B3F0468-BLK3)				Prepared: Jo	un-13-13. A	ınalyzed: .	Jun-13-13			
arbon, Total Organic	a superior	<1 _	_ 1 mg/L							
CS (B3F0468-B\$1)				Prepared: Ju	ın-13-13, A	nalyzed: .	Jun-13-13			The same and the s

1 mg/L

€0,0

105

90-117

Carbon, Total Organic



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Fort Liard. Hamlet of Annual Water Plant Tests WORK ORDER

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Analyte	Result	MRL Units	Spike Level	Source Result	% REG	REC Limit	RPD	RPD Lim it	Note
General Parameters, Batch B3F04	68, Continued								
LCS (B3F0468-BS2)			Prepared	: Jun-13-1	3, Analyze	d: Jun-13	-13		
Carbon, Yotal Organic	53	1 mg/L	50.0	1 11-74	106	90-117			
General Parameters, Batch B3F04	70								
Slank (B3F0470-BLK1)			Prepared	Jun-13-13	3, Analyze	d: Jun-13-	13		
Carbon, Dissolved Organic	< 1	1 mg/L			111-9-1				
Blank (B3F0470-BLK2)			Prepared:	Jun-13-13	, Analyze	d: Jun-13-			
Carbon, Dissolved Organic	<1	1 mg/L				** . **			
Blank (B3F0470-BLK3)			Prepared:	Jun-13-13	, Analyze	d: Jun-13-	13		
Carbon, Dissolved Organic	<1	1 mg/L		- 17 - 17		_	- Mr 1		
LCS (B3F0470-BS1)			Prepared:	Jun-13-13	, Analyzed	f: Jun-13-			
Carbon, Dissolved Organic	52	1 mg/L	50.0		105	92-114			
_CS (B3F0470-BS2)			Prepared:						
Carbon, Dissolved Organic	53	1 mg/L	50.0		106	92-114			
	7.62	0.05 pH units	Prepared:	7.50	, r widiyaaa		۲1	3	
	7.62			7.50			۲1	3	
H Reference (B3F0475-SRM1) H	7.62		Prepared:	7.50	Analyzed		۲1	3	
H Reference (B3F0475-SRM1)	7.62	0.05 pH units	Prepared:	7.50 Jun-13-13,	Analyzed	: Jun-13-1 98-102	<1 3	3	
H Reference (B3F0475-SRM1) H Ameral Parameters, Batch B3F0476	7.62	0.05 pH units	Prepared: 7.80	7.50 Jun-13-13,	Analyzed 102 Analyzed	: Jun-13-1 98-102	<1 3	3	
H Reference (B3F0475-SRM1) H eneral <i>Parameters, Batch B3F0476</i> Hank (B3F0476-BLK1)	7.62	0.05 pH units 0.05 pH units	Prepared: 7.80	7.50 Jun-13-13, Jun-13-13,	Analyzed 102 Analyzed:	: Jun-13-1 98-102 Jun-13-1	< 1 3	3	
H Reference (B3F0475-SRM1) H Ameral Parameters, Batch B3F0476 Hank (B3F0476-BLK1) Onductivity (EC) CS (B3F0476-BS1)	7.62	0.05 pH units	Prepared: 7.80 Prepared: .	7.50 Jun-13-13, Jun-13-13,	Analyzed 102 Analyzed:	: Jun-13-1 98-102 Jun-13-1 Jun-13-1	< 1 3	3	
H Reference (B3F0475-SRM1) H Amerial Parameters, Batch B3F0476 Ilank (B3F0476-BLK1) CS (B3F0476-BS1)	7.92	0.05 pH units 0.05 pH units	Prepared: 7.80 Prepared: Prepared:	7.50 Jun-13-13, Jun-13-13, Jun-13-13.	Analyzed: Analyzed: Analyzed:	Jun-13-1 98-102 Jun-13-1 Jun-13-13	<1 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Ilank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) Cnductivity (EC) Upilicate (B3F0476-DUP1)	7.92	0.05 pH units 0.05 pH units 1 uS/cm	Prepared: Prepared: Prepared: 1coo Prepared: J	7.50 Jun-13-13, Jun-13-13, Jun-13-13.	Analyzed: Analyzed: Analyzed:	Jun-13-1 98-102 Jun-13-1 Jun-13-13	<1 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Blank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) Chductivity (EC) uplicate (B3F0476-DUP1)	7.62 7.92 41 1000 Sourc	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 2 se: 3060675-01	Prepared: Prepared: Prepared: 1coo Prepared: J	7.50 Jun-13-13, Jun-13-13, Jun-13-13.	Analyzed: Analyzed: Analyzed:	Jun-13-1 98-102 Jun-13-1 Jun-13-13	<1 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Ilank (B3F0476-BLK1) Conductivity (EC) CS (B3F0476-BS1) Cnductivity (EC)	7.62 7.92 41 1000 Sourc	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 2 se: 3060675-01	Prepared: Prepared: Prepared: 1coo Prepared: J	7.50 Jun-13-13, Jun-13-13, Jun-13-13. un-13-13.	Analyzed: Analyzed: 100 Analyzed:	Jun-13-1 98-102 Jun-13-1 Jun-13-13 97-103 Jun-13-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Rank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) Conductivity (EC) Uplicate (B3F0476-DUP1) Conductivity (EC) Reral Parameters, Batch B3F0603	7.62 7.92 41 1000 Sourc	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 2 se: 3060675-01	Prepared: Prepared: Prepared: 1000 Prepared: J	7.50 Jun-13-13, Jun-13-13, Jun-13-13. un-13-13.	Analyzed: Analyzed: 100 Analyzed:	Jun-13-1 98-102 Jun-13-1 Jun-13-13 97-103 Jun-13-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Rank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) Conductivity (EC) Uplicate (B3F0476-DUP1) Conductivity (EC) Ineral Parameters, Batch B3F0603 CS (B3F0603-BLK1) CS (B3F0603-BLK1)	7.92 7.92 <1 1000 Source 578	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 1 uS/cm	Prepared: Prepared: Prepared: 1000 Prepared: J	7.50 Jun-13-13, Jun-13-13. Jun-13-13. 579	Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-13-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Rank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) Conductivity (EC) uplicate (B3F0476-DUP1) Conductivity (EC) meral Parameters, Batch B3F0603 ank (B3F0603-BLK1) fids, Total Suspended	7.92 7.92 <1 1000 Source 578	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 1 uS/cm	Prepared: Jones Prepared: Jepared: Jepa	7.50 Jun-13-13, Jun-13-13. Jun-13-13. 579	Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-13-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) Reference (B3F0476-BLK1) Reference (B3F0476-BLK1) Reference (B3F0476-BLK1) Reference (B3F0476-DUP1) Reference (B3F0476-DUP1) Reference (B3F0603-BLK1) Reference (B3F0603-BLK1) Reference (B3F0603-BLK2)	7.62 7.92 7.92 3000 Source 573	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 1 uS/cm 2 mg/L	Prepared: Jones Prepared: Jepared: Jepa	7.50 Jun-13-13, Jun-13-13, Jun-13-13. 579 Jun-17-13, J	Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-1 98-102 Jun-13-13 Jun-13-13 Jun-13-13 Jun-17-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Ilank (B3F0476-BLK1) CS (B3F0476-BS1) CD (B3F0476-BS1) CD (B3F0476-DUP1) CD	7.62 7.92 7.92 3000 Source 573	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 1 uS/cm 2 mg/L	Prepared: Prepared: Prepared: Prepared: J	7.50 Jun-13-13, Jun-13-13, Jun-13-13. 579 Jun-17-13, J	Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-17-13 Jun-17-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) Reference (B3F0476-BLK1) Reference (B3F0476-BLK1) Reference (B3F0476-BLK1) Reference (B3F0476-DUP1) Reference (B3F0476-DUP1) Reference (B3F0603-BLK1) Reference (B3F0603-BLK1) Reference (B3F0603-BLK2) Reference (B3F0603-BLK2) Reference (B3F0603-BLK2) Reference (B3F0603-BLK2) Reference (B3F0603-BLK3)	7.62 7.92 7.92 3000 Source 573	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 2 mg/L	Prepared: Prepared: Prepared: Prepared: J	7.50 Jun-13-13, Jun-13-13. Jun-13-13. 679 Jun-17-13, Jun-17-13, Jun-17-18, Jun-18-18, Ju	Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-17-13 Jun-17-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Rank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) CD (B3F0476-DUP1) CD (B3F0476-	7.62 7.92 7.92 41 1000 Sourc 578 42 42 42	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 2 mg/L	Prepared: Jones Prepared: June Prepa	7.50 Jun-13-13, Jun-13-13. Jun-13-13. 679 Jun-17-13, Jun-17-13, Jun-17-18, Jun-18-18, Ju	Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed: Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-17-13 Jun-17-13	<1 3 3 3 3		
H Reference (B3F0475-SRM1) H Reference (B3F0475-SRM1) H Reneral Parameters, Batch B3F0476 Rank (B3F0476-BLK1) CS (B3F0476-BS1) CS (B3F0476-BS1) CD (B3F0476-DUP1) CD (B3F0476-	7.62 7.92 7.92 3000 3000 573 <2 <2 <2	0.05 pH units 0.05 pH units 1 uS/cm 1 uS/cm 1 uS/cm 2 mg/L 2 mg/L	Prepared: June Prepar	7.50 Jun-13-13, Jun-13-13. Jun-13-13. 579 Jun-17-13, Jun-17-13, Ju	Analyzed:	Jun-13-13 Jun-13-13 Jun-13-13 Jun-17-13 Jun-17-13 Jun-17-13	<1 3 3 3 3		



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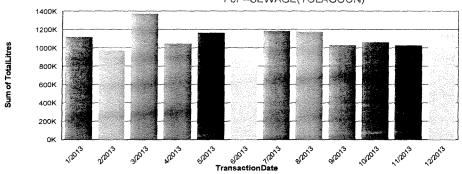
Fort Liard, Hamlet of Annual Water Plant Tests WORK ORDER REPORTED

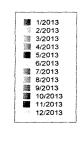
Secretar Parameters Batch B3F0605	Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	RPD	RPD Limit	Notes
Solids, 7081 Dissolved	General Parameters, Batch B3F0605									
CLCS (BSF0608-BS1)	Blank (B3F0605-BLK1)			Prepared	l: Jun-18-1	3. Analyze	d: Jun-18-1	3		
Source G87606-DB Source 306079-01 Prepared: Jun-18-13, Analyzed: Jun-18-13 Source 306079-01 Prepared: Jun-18-13, Analyzed: Jun-18-13 Prepared: Jun-18-13, Analyzed: Jun-18-13 Source		< 10	10 mg/L							
Source S	LCS (B3F0605-BS1)			Prepared	: Jun-18-1	3, Analyze	d: Jun-18-1	3		
Solids, Total Dissolved 344 10 mg/L 352 2 7		348	10 mg/L				₫ 3 −1 04			
Solids, Total Chisolved 344 10 mg/L 352 2 7	Duplicate (B3F0605-DUP1)		urce: 3060675-01	Prepared	: Jun-18-13	3, Analyze				
Stank (B3F0661-BLK1)		344	10 mg/L						77	* * *
CS (BSF0661-RS1)	eneral Parameters, Batch B3F0661									
Prepared: Jun-18-13, Analyzed: Jun-18-13 Prepared: Jun-18-13, Analyzed: Jun-18-18 Prepared: Jun-18-18, Analyzed: Jun-18-18 Prepared: Jun-18-18, Analyzed: Jun-18-18 Prepared: Jun-18-18 Prepared: Jun-18-18, Analyzed: Jun-18-18 Prepared: Jun-18-18, Analyzed: Jun-18-18 Prepared: Jun-18-18, Analyzed: Jun-18-18	Blank (B3F0661-BLK1)			Prepared	Jun-18-13	i, Analyże	d: Jun-18-13	3		
Section Sect	yanide, total	< 0.010	0.010 mg/L			is not				
### Analyzed: Jun-13-13 An	.CS (B3F0661-B\$1)			Prepared:	Jun-18-13	, Analyze	d: Jun-18-13	}		
Hank (B3F0471-BLK1)	yanide, total	0.041	0.010 mg/L	0.0400		102	85-110			
Section Sect	ajor Cations (Dissolved), Batch B3F04	71								
Sum	Hank (B3F0471-BLK1)			Prepared:	Jun-13-13	, Analyzed	l: Jun-13-13		***	
Section Continue	graph and the second se									
Prepared: Jun-13-13, Analyzed: Jun-13-13	and the second s					· • 1 · .				BLK
Section Sect			o.oo mga	Deconocado	him 12 13	Anghand	1212			, Dan
24.9 0.05 mg/L 25.0 99 90-106		40 F	0.4//		Juli-13-13,					
### Solution of So	the first of the second			14 7 4 14				*****		• • • •
Section Sect	, Para de comparte de Crista de Cris		and the Total Company of the Company			41.08				
Section Sect	eference (B3F0471-SRM1)			Prepared:	Jun-13-13,	Analyzed	: Jun-13-13			
State Stat		6.6	0.1 mg/L							
Prepared: Jun-18-13, Analyzed: Jun-18-13 Prepared: Jun-18-13 Prep		6.15		6.11		101	81-119	,		
### (B3F0663-BLK1) ### (Prepared: Jun-18-13, Analyzed: Jun-13-13) #### (Prepared: Jun-18-13, Analyzed: Jun-13-13) ###################################	xlium, dissolved	17.4	0.05 mg/L	17.4	*****	100	72-128			
Second commodicition Second commodicition Second commodicition Second commodicition Second commodicition Second commodition	atile Organic Compounds (VOC), Batc	h B3F066 3								
Content Cont	ank (B3F0663-BLK1)			Prepared:	lun-18-13,	Analyzed:	Jun-18-13			
Controllor	and the state of t		** *** * *** ** * * * * * * * * * * *				nerro t		-	
Composition	purchase affine and to 1	•							4	
Trogate: Toluene-d3	• •		74 17 STANIA 27 150 AMERICA							•
S (B3F0663-BS1) Prepared: Jun-18-13, Analyzed: Jun-18-13		*****	*** * *	0.0250		 03 s	80.120		1.61	
Prepared: Jun-18-13, Analyzed: Jun-18-13	rogate: 4-Bromofluorobenzene	0.0230	ma/L							
March Marc		* **								
Montom		0.019	0.001 mg/L			·····				
poroform 0.019 0.001 mg/L 0.0200 97 80-120 remochloromethane 0.019 0.001 mg/L 0.0200 94 80-120 regate: Taluene-d8 0.0222 mg/L 0.0250 89 80-120 regate: 4-Bromofluorobenzene 0.0212 mg/L 0.0250 85 30-120 B (B3F0863-BS2) Prepared: Jun-13-13, Analyzed: Jun-18-13 regate: Taluene-d8 0.0230 mg/L 0.0250 92 80-120 regate: 4-Bromofluorobenzene 0.0220 rgd/L 0.0250 38 30-120	*						1 1 . 1 pm-1 P		B. 44 Bit	
remochloromethane 0.019 0.001 mg/L 0.02c0 94 80-120 regate: Taluene-d8 0.0222 mg/L 0.0250 89 80-120 regate: 4-Bromofluorobenzerie 0.0212 mg/L 0.0250 85 30-120 Prepared: Jun-13-13, Analyzed: Jun-18-13 regate: Toluene-d8 0.0230 mg/L 0.0250 92 80-120 regate: Toluene-d8 0.0220 mg/L 0.0250 38 30-120	A SHEET PARTY		478 - 498 1 5 4 4 5 1 1 mg mg 20 11							
rogate: Toluene-d8 0.0222 mg/L 0.0250 89 80-120 rogate: 4-Bromofluorobenzerie 0.0212 rrg/L 0.0250 85 30-120 \$ (B3F0863-B52) Prepared: Jun-13-13, Analyzed: Jun-18-13 rogate: Toluene-d8 0.0230 rrg/L 0.0250 92 80-120 rogate: 4-Bromofluorobenzene 0.0220 rrg/L 0.0250 38 30-120			**************************************	4 × 40 × 7 × 5 × 1					• • •	
rogate: 4-Bromofluorobenzerie 0.0212 mg/L 0.0250 85 30-120 Prepared: Jun-13-13, Analyzed: Jun-18-13 rogate: Toluene-d8 0.0230 mg/L 0.0250 92 60-120 rogate: 4-Bromofluorobenzerie 0.0220 mg/L 0.0250 38 30-120	* * * * * * * · · · ·									
Prepared: Jun-13-13, Analyzed: Jun-18-13 rogate: Toluene-d8 0.0230 mg/L 0.0250 92 80-120 rogate: 4-Bromofluorobenzene 0.0220 mg/L 0.0250 38 80-120						85 3	0-120			
rogate: Toluene-d8 0.0230 mg/L 0.0250 92 60-120 rogate: 4-Bromofluor/chenzene 0.0220 rgd/L 0.0250 38 00-120	S (B3F0863-B\$2)			Prepared: Ju	in-18-13, A				••	
rodate 4-Bromofluorobenzene 0.0220 mg/L 0.0250 38 00-120		0.0230	ma/L	0.0250		92 &	0-120			
				** *		10.00	•			

--SEWAGE(TOLAGOON)

Sum of TotalLitres / TransactionDate

For -- SEWAGE (TOLAGOON)





	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
SEWAGE	1,116,950	970,100	1,370,608	1,041,300	1,161,450	872,200	
Total	1,116,950	970,100	1,370,608	1,041,300	1,161,450	872,200	

Total	Dec-13	Nov-13	Oct-13	Sep-13	Aug-13	Jul-13
13,149,758	1,152,550	1,023,500	1,059,100	1,027,950	1,170,350	1,183,700
13.149.758	1.152.550	1.023.500	1.059.100	1.027.950	1,170,350	1.183.700