

Nunavut - Community & Government Services

- Rankin Inlet

ATTN: PAUL VOISEY

P.O. Box 490

Rankin Inlet NU X0C 0G0

Date Received: 13-AUG-13

Report Date: 14-AUG-13 15:10 (MT)

Version: FINAL

Client Phone: 867-645-8158

Certificate of Analysis

Lab Work Order #: L1346899

Project P.O. #:

NOT SUBMITTED

Job Reference: C of C Numbers:

Legal Site Desc:

Chantal Bouchard

Chantal Bouchard

Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/F	Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1346899-1	WHALE COVE - SCHOOL TREATED							
	PAUL VOISEY on 12-AUG-13 @ 09:33							
	WATER							
Total Coliforn	m and E.coli							
Total Coliform		0		0	MPN/100mL		13-AUG-13	R2672130
Escherichia C	oli	0		0	MPN/100mL		13-AUG-13	R2672130
L1346899-2	WHALE COVE - HAMLET OFFICE TREA	ATED						
Sampled By:	PAUL VOISEY on 12-AUG-13 @ 09:40							
Matrix:	WATER							
Total Coliforn	m and E.coli							
Total Coliform		0		0	MPN/100mL		13-AUG-13	R2672130
Escherichia C	oli	0		0	MPN/100mL		13-AUG-13	R2672130
	WHALE COVE - HEALTH CENTER TRE	ATED						
Sampled By:	PAUL VOISEY on 12-AUG-13 @ 10:47							
Matrix:	WATER							
Total Coliforn								
Total Coliform		0		0	MPN/100mL		13-AUG-13	R2672130
Escherichia C	oli	0		0	MPN/100mL		13-AUG-13	R2672130
	WHALE COVE - HOTEL TREATED							
	PAUL VOISEY on 12-AUG-13 @ 09:56							
Matrix:	WATER							
Total Coliforn								
Total Coliform		0		0	MPN/100mL		13-AUG-13	R2672130
Escherichia C	oli	0		0	MPN/100mL		13-AUG-13	R2672130
	WHALE COVE - WATER TRUCK TREA	TED						
' '	PAUL VOISEY on 12-AUG-13 @ 10:30							
Matrix:	WATER							
Total Coliforr								
Total Coliform		25		0	MPN/100mL		13-AUG-13	R2672130
Escherichia C	Oli	0		0	MPN/100mL		13-AUG-13	R2672130
		1					I.	1

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

L1346899 CONTD....

PAGE 3 of 3 Version: FINAL

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**	
TC FC-OT51-WP	Water	Total Coliform and F coli	APHA 9223	

The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.

TC,EC-QT51-WP Water Total Coliform and E.coli **APHA 9223 QT**

The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Department of Health & Social Services: Kivallia Okoa Kavamat Monakhikakvilikiot Olasilikiot: Kivalliq Ministère de la Santé et des Services Sociano · Kivallio



Environmental Health Officer Bag 72, Rankin Inlet, NU, X0C 0G0

Phone: (867) 645-8273 Fax: (867) 645-8274



Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection Information Community from which sample was collected: Location of sample collection: treated Date of sample collection: 2013 13. Time of sample collection: :33 Am Name of person who collected sample: Voisey Telephone number of person who collected sample: 867-8910-9304 For Laboratory Use Only 13/08/2013 12:50MA Date Received: Date Processed: Processed by: Results Total Coliform per 100ml: E. coli per 100ml: Date Read: Read by: No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption. Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible. Unsafe to Drink Sample collected is unsafe for human consumption as fecal contamination is present.

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. coli bacterial indicators of contamination by using membrane filtration.

Resample as soon as possible.



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Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection	on Information		
Community from which sample was collected:			
Location of sample collection:	HAMLE COVE HAMLET OFFICE treated		
Date of sample collection:			
Time of sample collection:	9:40 AM		
Name of person who collected sample:	PAUL VOISSEL		
Telephone number of person who collected sample:	PAUL VOISSEY 867-896-9305		
13% For Laborato	FAX 207-896 9304		
Date Received: 13/68/2013 12:50M			
Date Processed:	Processed by:		
Resu	ılts		
Total Coliform per 100ml:	E. coli per 100ml:		
Date Read:	Read by:		
No Significant Evidence of Bacte Sample collected is bacteriologically safe for			
Sample collected may be unsafe for human co Resample as soon as possible.	Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible.		
Unsafe to Drink Sample collected is unsafe for human consum Resample as soon as possible.	Sample collected is unsafe for human consumption as fecal contamination is present.		

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. coli bacterial indicators of contamination by using membrane filtration.



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Environmental Health Officer

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Phone: (867) 645-8273 Fax: (867) 645-8274



Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collectio	n Information			
Community from which sample was collected:	WHALE COVE			
Location of sample collection:	Health Centre treated			
Date of sample collection:	Aug 12. 2013			
Time of sample collection:	10:47 AM			
Name of person who collected sample:				
Telephone number of person who collected sample:	1 X (4 L X 2) (4 L X 2) (4 L X 2) (4 L X 2)			
ارج س For Laborator	VAX 86-7-896-9304 y Use Only			
Date Received: 13/68/2013 12:50rm				
Date Processed:	Processed by:			
Results				
Total Coliform per 100ml:	E. coli per 100ml:			
Date Read:	Read by:			
No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption. Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible.				
Unsafe to Drink Sample collected is unsafe for human consum Resample as soon as possible.	ption as fecal contamination is present.			

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Bacteriological Analysis of Drinking Water Sample Collection Information Form

Sample Collection	n Information		
Community from which sample was collected:	WHALE COVE		
Location of sample collection:	HOTEL treated		
Date of sample collection:	Aug 12. 2013		
Time of sample collection:	9:56 AM		
Name of person who collected sample:	PAUL Voisey		
Telephone number of person who collected sample:	Aug 12. 2013 9:56 Am PAUL Voisey 8107-896-9305		
13 °c For Laborator	(Ax 867-896-9304) Ty Use Only		
Date Received: 13/68/2013 12: Soym			
Date Processed:	Processed by:		
Resu	lts		
Total Coliform per 100ml:	E. coli per 100ml:		
Date Read:	Read by:		
No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption.			
	Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible.		
Unsafe to Drink Sample collected is unsafe for human consum, Resample as soon as possible.	Sample collected is unsafe for human consumption as fecal contamination is present.		

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. coli bacterial indicators of contamination by using membrane filtration.



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Environmental Health Officer

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Bacteriological Analysis of Drinking

Sample Collection Information Form

Sample Collection Information Community from which sample was collected: WHALE Location of sample collection: WATER TRUCK Treated Date of sample collection: 12. 2013 Time of sample collection: Name of person who collected sample: Telephone number of person who collected sample: 139 For Laboratory Use Only 13/08/2015 1255070 Date Received: Date Processed: Processed by: Results Total Coliform per 100ml: E. coli per 100ml: Date Read: Read by: No Significant Evidence of Bacteriological Contamination Sample collected is bacteriologically safe for human consumption. Significant Evidence of Bacteriological Contamination Sample collected may be unsafe for human consumption as bacteriological contamination is present. Resample as soon as possible. **Unsafe to Drink** Sample collected is unsafe for human consumption as fecal contamination is present.

The above results relate only to the sample tested. This water sample was only tested for the presence of both Total Coliform and E. *coli* bacterial indicators of contamination by using membrane filtration.

Resample as soon as possible.