

May 7, 2021

Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1L0

Attention: Richard Dwyer, Manager of Licensing

Dear Richard,

The Hamlet of Baker Lake is pleased to submit the 2020 Annual Report for water use and disposal of waste as required under the 3BM-BAK-1526 water license from January 1-December 31, 2020.

The estimated water use in 2020 was 75,283 m³ which is below the 100,000m³ allowable limit. The 2019 water consumption data was incomplete and the annual increase could not be reliably calculated. Sampling of sewage effluent was tested at the ALS Laboratory in Winnipeg. The effluent sampled at the wetland discharge point BAK-5 was below the allowable limits for BOD and TSS. The Licensee is interested in expanding their Solid Waste site and may undertake a planning study to inform the expansion.

Thank you for your consideration. Please do not hesitate to contact me with any questions or concerns.

Regards,

Sarah Collins, P. Eng.

Municipal Planning Engineer Government of Nunavut

Community and Government Services

Phone: 867-975-5478 Email: scollins@gov.nu.ca

YEAR BEING REPORTED: 2020

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License No. 3BM-BAK1526 issued to the Hamlet of Baker Lake.

- a) tabular summaries of all data generated under the "Monitoring Program" and an indication of wastewater treatment levels upstream and downstream of the Wetland Area;
- b) summary of modifications to the "Monitoring Program" in accordance with Part H, Item 10;
- c) the daily, monthly, and annual quantities in cubic metres of fresh water obtained at the Water Treatment Facility;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (m³)	Quantity of Sewage Waste Discharged (Estimated, m³)			
January	6,374.381	Same			
February	5,989.768	Same			
March	6,609.527	Same			
April	5,916.472	Same			
May	y 5,989.937 Same				
June	6,075.404	Same			
July	6,414.212	Same			
August	6,459.154	Same			
September	6,376,632	Same			
October	6,431,249	Same			
November	November 6,312,643				
December	6,333,394	Same			
ANNUAL TOTAL	75,282,773	Same			

Note: There is no meter at the Sewage discharge pipe. Therefore, the monthly discharge volume is considered as equal to the monthly water consumption volume. Daily water use is estimated as 206 m³/day.

- d) the annual quantity in cubic metres and tonnes of sludge removed from the Sewage Disposal Facility along with the treatment, storage, and disposal provided as required in Part H Item 5;
- The licensee did sludge removal from the sewage lagoon in 2020. The volumes of sludge removal were not reported to CGS at the time of this report, once obtained they will be submitted to the NWB.
- e) a summary of modifications and/or major maintenance work carried out on the Water Treatment and Waste Disposal Facilities, including all associated structures and facilities;
- None
- f) a list of unauthorized discharges and summary of follow-up action taken;

Spill No.	Date	Site Description	Commodity	Quantity
2020361	01/01/20	800m from Kiyuk Lake	Petroleum – crude oil	10.00 L
		VOR	Petroleum-fuel oil (jet	
2020043	01/28/20	VUK	A, diesel, turbo A, heat)	3.00 L
		North shore of Baker	Petroleum-fuel oil (jet	Unknown
2020094	09/10/20	Lake	A, diesel, turbo A, heat)	Quantity
		Unit #202	Petroleum-fuel oil (jet	Unknown
2020326	10/15/20	UIIIL #202	A, diesel, turbo A, heat)	Quantity

- g) a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
- None
- h) any updates or revisions for manuals and plans (i.e., *Operations and Maintenance Manual*) as required by changes in operation and/or technology, may be subject to Board approval;
- None
- i) detailed minutes of any public consultation and participation with local organizations and the residents of the community regarding licence amendments;
- None

- j) a summary of any studies or reports requested by the Board that relate to water use and waste disposal or restoration, and a brief description of any future studies planned;
- None currently being undertaken. The licensee is interested in expanding their solid waste site and may undertake a planning study to inform the site plan.
- any other details on water use or waste disposal requested by the Board by 1st of November of the year being reported; and
- None
- The monthly and annual quantities in cubic metres of backwash water disposed of at the Sewage Disposal Facility.
- This information was not provided to CGS at the time of this submission, once obtained this data will be submitted to NWB.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- A report was completed in June 2020 to address freezing intake and pumping system issue that
 has occurred each year since commissioning at the water treatment plant. The report included
 information from a review of the treatment process, recommendation for intake improvements,
 and a hydraulic assessment of the plant. The findings suggest that the treatment process should
 be upgraded, and the intake and pumping system should be replaced. NWB will be notified in
 advance of any modifications taking place.
- The Licensee submitted an application for landfill fencing that would extend the footprint of the current site. Though the funding was approved, the licensee will go through the proper regulatory approvals prior to installation.
- De-sludging of the receiving wastewater cell in 2020 took place.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

A copy of the CIRNAC inspection report has not been received at the time of this submission.

List of Appendices

Appendix A: BAK-5 Effluent Quality Limits – 1 page Appendix B: Laboratory Certificate of Analysis

- Certificate of Analysis July 14, 2020 13 pages
- Certificate of Analysis July 30, 2020 7 pages
- Certificate of Analysis August 25, 2020 7 pages
- Certificate of Analysis September 23, 2020 7 pages

Appendix C: Hazardous Materials Spill Database, Baker Lake 2020 – 1 page

Appendix D: Baker Lake 2020 Sampling Summary – 4 pages

Appendix E: CIRNAC Inspection Report - 1 pages

Appendix F: Licensee Representative Annual Inspection Report – 1 page

Appendix A: BAK-5 Effluent Quality Limits

3BM-BAK1526 Monitoring Program Results 2020 for Effluent Quality

Parameter	Limit	BAK-5
	Limit	14-Jul-20
BOD ₅	80 mg/L	12.6
Total Suspended Solids	100 mg/L	12.4
Fecal Coliforms	1x10 ⁴ CFU/100mL	2910
Oil + Grease	no visible sheen	5
рН	between 6 and 9	7.4

Appendix B: Laboratory Certificate of Analysis



PO Box 149

Hamlet of Baker Lake Date Received: 15-JUL-20

ATTN: PAUL NARKYAGIK Report Date: 24-JUL-20 14:29 (MT)

Public Works Foreman - Wastewater Version: FINAL

Baker Lake NU XOC 0A0 Client Phone: 867-793-2881

Certificate of Analysis

Lab Work Order #: L2474594

Project P.O. #: NOT SUBMITTED

Job Reference: HAMLET OF BAKER LAKE - WASTE WATERS

C of C Numbers: Legal Site Desc:

Hua Wo

Chemistry Laboratory 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 An ALS Limited Company



L2474594 CONTD.... PAGE 2 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-1 BAK-2							
Sampled By: PN on 14-JUL-20 @ 07:15							
Matrix: WATER							
Total and E and A 40 df at 1 CTCT							
Total and E. coli, 1:10 dilution by QT97 Total Coliforms	290	MBHT	10	MPN/100mL		15-JUL-20	R5154797
Escherichia Coli	<10	MBHT	10	MPN/100mL		15-JUL-20	R5154797
Nunavut WW Group 1							
Alkalinity, Bicarbonate	20.0		4.0			00 1111 00	
Bicarbonate (HCO3) Alkalinity, Carbonate	28.3		1.2	mg/L		20-JUL-20	
Carbonate (CO3)	<0.60		0.60	mg/L		20-JUL-20	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		20-JUL-20	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	23.2		1.0	mg/L		17-JUL-20	R5158036
Ammonia by colour				<i>y</i> –			
Ammonia, Total (as N)	<0.010		0.010	mg/L		21-JUL-20	R5161278
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	3.1		2.0	mg/L		16-JUL-20	R5159745
Carbonaceous BOD	3.1		2.0	IIIg/L		10-30L-20	K3139143
BOD Carbonaceous	2.0		2.0	mg/L		16-JUL-20	R5159745
Chloride in Water by IC	40.4		0.50	/1		45 1111 00	DE400000
Chloride (CI) Conductivity	10.1		0.50	mg/L		15-JUL-20	R5160806
Conductivity	80.4		1.0	umhos/cm		17-JUL-20	R5158036
Fecal coliforms, 1:10 dilution by QT97							
Fecal Coliforms	<10	MBHT	10	MPN/100mL		15-JUL-20	R5154800
Hardness Calculated Hardness (as CaCO3)	26.7	нтс	0.20	mg/L		20-JUL-20	
Mercury Total			0.20				
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	16-JUL-20	16-JUL-20	R5156978
Nitrate in Water by IC Nitrate (as N)	-0.020		0.020	ma/l		15-JUL-20	DE160006
Nitrate+Nitrite	<0.020		0.020	mg/L		13-JUL-20	R5160806
Nitrate and Nitrite as N	<0.070		0.070	mg/L		22-JUL-20	
Nitrite in Water by IC			0.54-			45	DELCCC
Nitrite (as N) Oil & Grease - Gravimetric	<0.010		0.010	mg/L		15-JUL-20	R5160806
Oil and Grease	<5.0		5.0	mg/L		20-JUL-20	R5159794
Phenol (4AAP)							
Phenois (4AAP)	<0.0010		0.0010	mg/L		17-JUL-20	R5158557
Phosphorus, Total Phosphorus (P)-Total	0.0852		0.0030	mg/L		22-JUL-20	R5161476
Sulfate in Water by IC				3-			
Sulfate (SO4)	3.38		0.30	mg/L		15-JUL-20	R5160806
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0264		0.0030	mg/L	17-JUL-20	17-JUL-20	D5159577
Arsenic (As)-Total	0.0264		0.0030	mg/L	17-JUL-20 17-JUL-20	17-30L-20 17-JUL-20	R5158577 R5158577
Cadmium (Cd)-Total	0.0000062		0.0000050		17-JUL-20	17-JUL-20	R5158577
Calcium (Ca)-Total	8.01		0.050	mg/L	17-JUL-20	17-JUL-20	R5158577
Chromium (Cr)-Total	0.00012		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Copper (Cu) Total	0.00015		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Copper (Cu)-Total Iron (Fe)-Total	0.00135 0.650		0.00050 0.010	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Lead (Pb)-Total	0.00077		0.00050	mg/L	17-JUL-20 17-JUL-20	17-30L-20 17-JUL-20	R5158577
(· //	3.330077		3.555555				

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

L2474594 CONTD.... PAGE 3 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-1 BAK-2							
Sampled By: PN on 14-JUL-20 @ 07:15							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Magnesium (Mg)-Total	1.63		0.0050	mg/L	17-JUL-20	17-JUL-20	R5158577
Manganese (Mn)-Total	0.0460		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Nickel (Ni)-Total	0.00058		0.00050	mg/L	17-JUL-20	17-JUL-20	R5158577
Potassium (K)-Total	1.14		0.050	mg/L	17-JUL-20	17-JUL-20	R5158577
Sodium (Na)-Total	6.07		0.050	mg/L	17-JUL-20	17-JUL-20	R5158577
Zinc (Zn)-Total	0.0061		0.0030	mg/L	17-JUL-20	17-JUL-20	R5158577
Total Organic Carbon by Combustion Total Organic Carbon	6.16		0.50	mg/L		22-JUL-20	R5166668
Total Suspended Solids	0.0		2.0			24 11 11 20	DE405707
Total Suspended Solids	6.6		3.0	mg/L		21-JUL-20	R5165797
pH pH	7.25		0.10	pH units		17-JUL-20	R5158036
L2474594-2 BAK-3							
Sampled By: PN on 14-JUL-20 @ 07:30							
Matrix: WATER							
Total and E. coli, 1:10 dilution by QT97							
Total Coliforms	340	MBHT	10	MPN/100mL		15-JUL-20	R5154797
Escherichia Coli Nunavut WW Group 1	<10	MBHT	10	MPN/100mL		15-JUL-20	R5154797
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	40.0		1.2	mg/L		20-JUL-20	
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		20-JUL-20	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		20-JUL-20	
Alkalinity, Total (as CaCO3)	<0.34		0.34	IIIg/L		20-JUL-20	
Alkalinity, Total (as CaCO3)	32.8		1.0	mg/L		17-JUL-20	R5158036
Ammonia by colour Ammonia, Total (as N)	0.124		0.010	mg/L		21-JUL-20	R5161278
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	4.4		2.0	mg/L		16-JUL-20	R5159745
Carbonaceous BOD						40 1111 00	D5450745
BOD Carbonaceous	<2.0		2.0	mg/L		16-JUL-20	R5159745
Chloride in Water by IC Chloride (CI)	13.4		0.50	mg/L		15-JUL-20	R5160806
Conductivity Conductivity	133		1.0	umhos/cm		17-JUL-20	R5158036
Fecal coliforms, 1:10 dilution by QT97	133		1.0	diffilos/GIII		17-30L-20	113130030
Fecal Coliforms	<10	MBHT	10	MPN/100mL		15-JUL-20	R5154800
Hardness Calculated Hardness (as CaCO3)	39.2	нтс	0.20	mg/L		20-JUL-20	
Mercury Total Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	16-JUL-20	16-JUL-20	R5156978
Nitrate in Water by IC Nitrate (as N)	0.962		0.020	mg/L		15-JUL-20	R5160806
Nitrate+Nitrite							1.010000
Nitrate and Nitrite as N Nitrite in Water by IC	1.02		0.070	mg/L		22-JUL-20	DELOCACI
Nitrite (as N) Oil & Grease - Gravimetric	0.057		0.010	mg/L		15-JUL-20	R5160806
Oil and Grease	<5.0		5.0	mg/L		20-JUL-20	R5159794

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

L2474594 CONTD.... PAGE 4 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-2 BAK-3							
Sampled By: PN on 14-JUL-20 @ 07:30							
Matrix: WATER							
Phenol (4AAP)							
Phenols (4AAP)	<0.0010		0.0010	mg/L		17-JUL-20	R5158557
Phosphorus, Total				3			
Phosphorus (P)-Total	0.920		0.0030	mg/L		22-JUL-20	R5161476
Sulfate in Water by IC							
Sulfate (SO4)	9.79		0.30	mg/L		15-JUL-20	R5160806
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0454		0.0000	ma/l	17-JUL-20	17-JUL-20	DE150577
Arsenic (As)-Total	0.0454 0.00075		0.0030 0.00010	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Cadmium (Cd)-Total	0.00075		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Calcium (Ca)-Total	11.7		0.050	mg/L	17-JUL-20	17-JUL-20	R5158577
Chromium (Cr)-Total	0.00015		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Cobalt (Co)-Total	0.00035		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Copper (Cu)-Total	0.00371		0.00050	mg/L	17-JUL-20	17-JUL-20	R5158577
Iron (Fe)-Total	0.938		0.010	mg/L	17-JUL-20	17-JUL-20	R5158577
Lead (Pb)-Total	0.000140		0.000050	mg/L	17-JUL-20	17-JUL-20	R5158577
Magnesium (Mg)-Total	2.46		0.0050	mg/L	17-JUL-20	17-JUL-20	R5158577
Manganese (Mn)-Total	0.115		0.00010	mg/L	17-JUL-20 17-JUL-20	17-JUL-20	R5158577
Nickel (Ni)-Total Potassium (K)-Total	0.00094 3.20		0.00050 0.050	mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Sodium (Na)-Total	10.5		0.050	mg/L mg/L	17-JUL-20 17-JUL-20	17-30L-20 17-JUL-20	R5158577
Zinc (Zn)-Total	0.0046		0.0030	mg/L	17-JUL-20	17-JUL-20	R5158577
Total Organic Carbon by Combustion	0.0040		0.0000	1119/ =	002 20	002 20	110100011
Total Organic Carbon	10.2		0.50	mg/L		22-JUL-20	R5166668
Total Suspended Solids							
Total Suspended Solids	7.4		3.0	mg/L		21-JUL-20	R5165797
pH	7.00		0.40	and the condition		47 1111 00	D5450000
pH	7.36		0.10	pH units		17-JUL-20	R5158036
L2474594-3 BAK-4							
Sampled By: PN on 14-JUL-20 @ 08:25							
Matrix: WATER BTEX plus F1-F4							
BTX plus F1-F4 BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		16-JUL-20	R5154921
Toluene	<0.0010		0.0010	mg/L		16-JUL-20	R5154921
Ethyl benzene	<0.00050		0.00050	mg/L		16-JUL-20	R5154921
o-Xylene	<0.00050		0.00050	mg/L		16-JUL-20	R5154921
m+p-Xylenes	<0.00040		0.00040	mg/L		16-JUL-20	R5154921
F1 (C6-C10)	<0.10		0.10	mg/L		16-JUL-20	R5154921
Surrogate: 4-Bromofluorobenzene (SS)	86.8		70-130	%		16-JUL-20	R5154921
CCME PHC F2-F4 in Water	-0.40		0.40	ma/l	17-JUL-20	17 11 11 20	DE157575
F2 (C10-C16) F3 (C16-C34)	<0.10 0.36		0.10 0.25	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5157575 R5157575
F4 (C34-C50)	<0.25		0.25	mg/L	17-JUL-20 17-JUL-20	17-30L-20 17-JUL-20	R5157575
Surrogate: 2-Bromobenzotrifluoride	97.4		60-140	//////////////////////////////////////	17-JUL-20	17-JUL-20	R5157575
CCME Total Hydrocarbons				· ·			
F1-BTEX	<0.10		0.10	mg/L		20-JUL-20	
F2-Naphth	<0.10		0.10	mg/L		20-JUL-20	
F3-PAH	0.36		0.25	mg/L		20-JUL-20	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		20-JUL-20	
Sum of Xylene Isomer Concentrations	.0.00004		0.00004	m e /I		46 11 11 00	
Xylenes (Total)	<0.00064		0.00064	mg/L		16-JUL-20	

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

L2474594 CONTD.... PAGE 5 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-3 BAK-4							
Sampled By: PN on 14-JUL-20 @ 08:25							
Matrix: WATER							
Total and E. coli, 1:10 dilution by QT97 Total Coliforms	>24200	MBHT	10	MPN/100mL		15-JUL-20	R5154797
Escherichia Coli	4350	MBHT	10	MPN/100mL		15-JUL-20	R5154797
CCME PAHs in mg/L	1000					.000110	110101101
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Acenaphthene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Acenaphthylene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Anthracene	<0.000010		0.000010	mg/L	17-JUL-20	20-JUL-20	R5158199
Acridine	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Benzo(a)anthracene	<0.000010		0.000010	mg/L	17-JUL-20	20-JUL-20	R5158199
Benzo(a)pyrene	<0.000050		0.0000050	mg/L	17-JUL-20	20-JUL-20	R5158199
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	17-JUL-20	20-JUL-20	R5158199
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Benzo(k)fluoranthene Chrysene	<0.000010		0.000010	mg/L	17-JUL-20	20-JUL-20	R5158199
Dibenzo(a,h)anthracene	<0.000020 <0.000050		0.000020	mg/L mg/L	17-JUL-20 17-JUL-20	20-JUL-20 20-JUL-20	R5158199 R5158199
Fluoranthene	<0.000030		0.0000030	mg/L	17-JUL-20	20-JUL-20 20-JUL-20	R5158199
Fluorene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Indeno(1,2,3-cd)pyrene	<0.000020		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
Naphthalene	<0.00050		0.000050	mg/L	17-JUL-20	20-JUL-20	R5158199
Phenanthrene	<0.000050		0.000050	mg/L	17-JUL-20	20-JUL-20	R5158199
Pyrene	<0.00010		0.000010	mg/L	17-JUL-20	20-JUL-20	R5158199
Quinoline	0.000029		0.000020	mg/L	17-JUL-20	20-JUL-20	R5158199
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	17-JUL-20	20-JUL-20	R5158199
Surrogate: d8-Naphthalene	100.7		50-150	%	17-JUL-20	20-JUL-20	R5158199
Surrogate: d10-Phenanthrene	99.1		50-150	%	17-JUL-20	20-JUL-20	R5158199
Surrogate: d12-Chrysene	96.0		50-150	%	17-JUL-20	20-JUL-20	R5158199
Surrogate: d10-Acenaphthene	94.6		50-150	%	17-JUL-20	20-JUL-20	R5158199
Surrogate: d9-Acridine (SS)	89.9		50-150	%	17-JUL-20	20-JUL-20	R5158199
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	53.9		1.2	mg/L		20-JUL-20	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		20-JUL-20	
Alkalinity, Hydroxide						00 !!!! 55	
Hydroxide (OH)	<0.34		0.34	mg/L		20-JUL-20	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	44.2		1.0	mg/L		17-JUL-20	R5158036
Ammonia by colour	44.2		1.0	illy/L		11-JUL-20	17010000
Ammonia, Total (as N)	3.26		0.10	mg/L		21-JUL-20	R5161278
Biochemical Oxygen Demand (BOD)							
Biochemical Oxygen Demand	14.5		6.0	mg/L		16-JUL-20	R5159745
Carbonaceous BOD						40 "" ==	
BOD Carbonaceous	7.5		2.0	mg/L		16-JUL-20	R5159745
Chloride in Water by IC Chloride (CI)	15.1		0.50	mg/L		15-JUL-20	R5160806
Conductivity	.5.1		0.00	9, =			
Conductivity	148		1.0	umhos/cm		17-JUL-20	R5158036
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	5170	MBHT	10	MPN/100mL		15-JUL-20	DE154900
Hardness Calculated	3170	וווטווו	10	IVIF IN/ IUUIIIL		13-30L-20	R5154800
Hardness (as CaCO3)	32.7	нтс	0.20	mg/L		20-JUL-20	

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

L2474594 CONTD.... PAGE 6 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-3 BAK-4							
Sampled By: PN on 14-JUL-20 @ 08:25							
Matrix: WATER							
Mercury Total							
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	16-JUL-20	16-JUL-20	R5156978
Nitrate in Water by IC							
Nitrate (as N)	0.462		0.020	mg/L		15-JUL-20	R5160806
Nitrate+Nitrite	0.040		0.070			22-JUL-20	
Nitrate and Nitrite as N Nitrite in Water by IC	0.612		0.070	mg/L		22-JUL-20	
Nitrite (as N)	0.151		0.010	mg/L		15-JUL-20	R5160806
Oil & Grease - Gravimetric							
Oil and Grease	<5.0		5.0	mg/L		20-JUL-20	R5159794
Phenol (4AAP)	0.0011		0.0011			47 11 " 00	D5450
Phenols (4AAP)	0.0014		0.0010	mg/L		17-JUL-20	R5158557
Phosphorus, Total Phosphorus (P)-Total	1.13		0.0060	mg/L		22-JUL-20	R5161476
Sulfate in Water by IC			3.5000				
Sulfate (SO4)	4.49		0.30	mg/L		15-JUL-20	R5160806
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.198		0.0030	mg/L	17-JUL-20	17-JUL-20	R5158577
Arsenic (As)-Total Cadmium (Cd)-Total	0.00070 0.0000119		0.00010 0.0000050	mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Calcium (Ca)-Total	9.60		0.000	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577
Chromium (Cr)-Total	0.00040		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Cobalt (Co)-Total	0.00039		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Copper (Cu)-Total	0.00823		0.00050	mg/L	17-JUL-20	17-JUL-20	R5158577
Iron (Fe)-Total	0.980		0.010	mg/L	17-JUL-20	17-JUL-20	R5158577
Lead (Pb)-Total	0.000456		0.000050	mg/L	17-JUL-20	17-JUL-20	R5158577
Magnesium (Mg)-Total	2.12		0.0050	mg/L	17-JUL-20	17-JUL-20	R5158577
Manganese (Mn)-Total Nickel (Ni)-Total	0.0818 0.00121		0.00010	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Potassium (K)-Total	3.63		0.00030	mg/L	17-JUL-20	17-30L-20 17-JUL-20	R5158577
Sodium (Na)-Total	11.5		0.050	mg/L	17-JUL-20	17-JUL-20	R5158577
Zinc (Zn)-Total	0.0162		0.0030	mg/L	17-JUL-20	17-JUL-20	R5158577
Total Organic Carbon by Combustion							
Total Organic Carbon	12.6		0.50	mg/L		22-JUL-20	R5166668
Total Suspended Solids Total Suspended Solids	26.4		3.0	mg/L		21-JUL-20	R5165797
pH	20.4		3.0	g/ L		21 002 20	1.0100191
pH	7.45		0.10	pH units		17-JUL-20	R5158036
L2474594-4 BAK-5							
Sampled By: PN on 14-JUL-20 @ 08:15							
Matrix: WATER							
Total and E. coli, 1:10 dilution by QT97	. 24200	MBHT	10	MDN/400~-		15 11 11 20	DE4E4707
Total Coliforms Escherichia Coli	>24200 3650	MBHT	10 10	MPN/100mL MPN/100mL		15-JUL-20 15-JUL-20	R5154797 R5154797
Nunavut WW Group 1	3030		10	IVII I W/ I O O I I I L		10 001-20	10104131
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	89.7		1.2	mg/L		20-JUL-20	
Alkalinity, Carbonate				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		00	
Carbonate (CO3)	<0.60		0.60	mg/L		20-JUL-20	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		20-JUL-20	
Alkalinity, Total (as CaCO3)	\0.04		0.54	g/ L		20 001 20	
,, ()	1			1		1	

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

L2474594 CONTD.... PAGE 7 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-4 BAK-5							
Sampled By: PN on 14-JUL-20 @ 08:15							
Matrix: WATER							
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	73.5		1.0	mg/L		17-JUL-20	R5158036
Ammonia by colour							
Ammonia, Total (as N)	3.55		0.10	mg/L		21-JUL-20	R5161278
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	12.6		2.0	mg/L		16-JUL-20	R5159745
Carbonaceous BOD	12.0		2.0	ilig/L		10-00L-20	110100140
BOD Carbonaceous	8.6		2.0	mg/L		16-JUL-20	R5159745
Chloride in Water by IC							
Chloride (CI)	12.3		0.50	mg/L		15-JUL-20	R5160806
Conductivity Conductivity	100		4.0	umhos/cm		17-JUL-20	DE1E0006
Fecal coliforms, 1:10 dilution by QT97	198		1.0	ullillos/CIII		17-JUL-20	R5158036
Fecal Coliforms	2910	MBHT	10	MPN/100mL		15-JUL-20	R5154800
Hardness Calculated							
Hardness (as CaCO3)	66.7	HTC	0.20	mg/L		20-JUL-20	
Mercury Total	0.000050		0.0000050	m c:/l	46 11 11 00	16 11 11 00	DE450070
Mercury (Hg)-Total Nitrate in Water by IC	<0.0000050		0.0000050	mg/L	16-JUL-20	16-JUL-20	R5156978
Nitrate in water by iC Nitrate (as N)	0.286		0.020	mg/L		15-JUL-20	R5160806
Nitrate+Nitrite							
Nitrate and Nitrite as N	0.386		0.070	mg/L		22-JUL-20	
Nitrite in Water by IC	0.455		0.010			45 11 11 00	DE400000
Nitrite (as N)	0.100		0.010	mg/L		15-JUL-20	R5160806
Oil & Grease - Gravimetric Oil and Grease	<5.0		5.0	mg/L		20-JUL-20	R5159794
Phenol (4AAP)	.3.0		2.0	J. –			
Phenols (4AAP)	0.0053		0.0010	mg/L		17-JUL-20	R5158557
Phosphorus, Total			0.0000			00 11 11 00	DE404:==
Phosphorus (P)-Total	1.15		0.0060	mg/L		22-JUL-20	R5161476
Sulfate in Water by IC Sulfate (SO4)	10.3		0.30	mg/L		15-JUL-20	R5160806
Total Metals in Water by CRC ICPMS	. 5.5		0.00				
Aluminum (Al)-Total	0.0861		0.0030	mg/L	17-JUL-20	17-JUL-20	R5158577
Arsenic (As)-Total	0.00065		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Cadmium (Cd)-Total	0.0000103		0.0000050	mg/L	17-JUL-20	17-JUL-20	R5158577
Calcium (Ca)-Total Chromium (Cr)-Total	20.4 0.00024		0.050 0.00010	mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577
Cobalt (Co)-Total	0.00024		0.00010	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Copper (Cu)-Total	0.00704		0.00010	mg/L	17-30L-20 17-JUL-20	17-JUL-20	R5158577
Iron (Fe)-Total	1.75		0.010	mg/L	17-JUL-20	17-JUL-20	R5158577
Lead (Pb)-Total	0.000365		0.000050	mg/L	17-JUL-20	17-JUL-20	R5158577
Magnesium (Mg)-Total	3.80		0.0050	mg/L	17-JUL-20	17-JUL-20	R5158577
Manganese (Mn)-Total	0.192		0.00010	mg/L	17-JUL-20	17-JUL-20	R5158577
Nickel (Ni)-Total	0.00113		0.00050	mg/L	17-JUL-20	17-JUL-20	R5158577
Potassium (K)-Total Sodium (Na)-Total	3.31 11.5		0.050 0.050	mg/L mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577
Zinc (Zn)-Total	0.0101		0.050	mg/L	17-JUL-20 17-JUL-20	17-JUL-20 17-JUL-20	R5158577 R5158577
Total Organic Carbon by Combustion	0.0101		0.0000	9, =	552 25	552 25	. 10 100011
Total Organic Carbon	16.5		0.50	mg/L		22-JUL-20	R5166668
Total Suspended Solids							
Total Suspended Solids	12.4		3.0	mg/L		21-JUL-20	R5165797
рН							

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

L2474594 CONTD.... PAGE 8 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2474594-4 BAK-5 Sampled By: PN on 14-JUL-20 @ 08:15 Matrix: WATER pH pH	7.39		0.10	pH units		17-JUL-20	R5158036
ри 	7.39		0.10	priums		17-30L-20	K3136036

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

L2474594 CONTD....

PAGE 9 of 11 Version: FINAL

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MBHT	The APHA 30 hour hold time was exceeded for microbiological testing. Samples processed within 48 hours from time of sampling may be valid in some cases (refer to Health Canada guidance).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BTEXS+F1-HSMS-WP Water BTX plus F1 by GCMS EPA 8260C / EPA 5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-IC-N-WP Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-WP Water Conductivity APHA 2510B

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

F1-F4-CALC-WP Water CCME Total Hydrocarbons CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

L2474594 CONTD.... PAGE 10 of 11 Version: FINAL

Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

1. All extraction and analysis holding times were met.

- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.

4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F2-F4-FID-WP CCME PHC F2-F4 in Water Water **EPA 3511**

Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.

FC10-QT97-WP Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97 Water

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 44.5 +/- 0.2 degrees C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated **APHA 2340B**

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents.

Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-T-CVAA-WP Mercury Total

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-T-CCMS-WP Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod.) Water

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite **CALCULATION** NO2-IC-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil &

Grease is determined from the weight of the residue in the vial.

APHA 4500 P PHOSPHORUS-L Phosphorus, Total

This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically

after persulphate digestion of the sample.

PAH-CCME-PPM-WT Water CCME PAHs in mg/L EPA 3511/8270D (mod)

PAHs are extracted from water using a hexane micro-extraction technique, with analysis by GC/MS. Because the two isomers cannot be readily separated chromatographically, benzo(j)fluoranthene is reported as part of the benzo(b)fluoranthene parameter.

Water **APHA 4500H**

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.

PHENOLS-4AAP-WT Phenol (4AAP) Water

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically.

EPA 9066

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

L2474594 CONTD....

PAGE 11 of 11 Version: FINAL

Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TOTSUS-WP Water **Total Suspended Solids** APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

TC,EC10-QT97-WP Total and E. coli, 1:10 dilution by QT97 APHA 9223B QT97 Water

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Susbtrate Coliform Test". Total coliforms and Eschericia coli bacteria are simultaneously determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 35.0 +/- 0.5 degrees C for 18 or 24 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

XYLENES-SUM-CALC-

Water

Sum of Xylene Isomer Concentrations

CALCULATED RESULT

Total xylenes represents the sum of o-xylene and m&p-xylene.

** 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
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, 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.

ma/ka - 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.

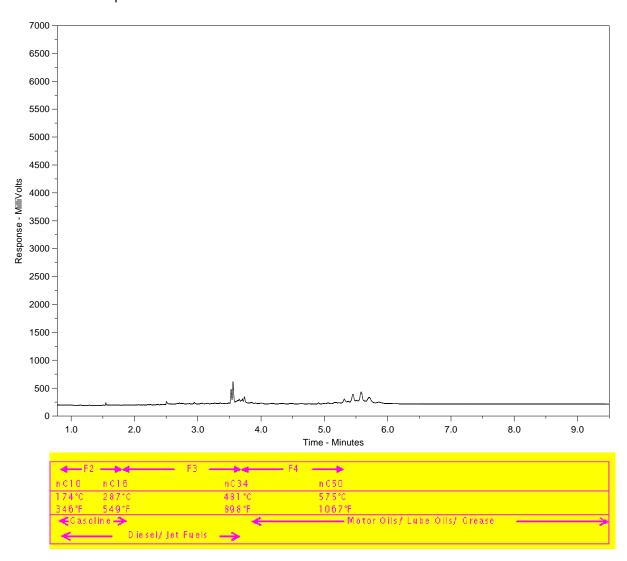
Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2474594-3 Client Sample ID: BAK-4



The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

ALS Environmental

Chain of Custody (COC) / Analytical Request Form

L2474594-COFC

COC Number: 17 - 781479

Page

of

Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear		al report Report Format / Distribution			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)														
Company:	Haulet of Baker L	oke s	Select Report Fo	ormat: 📈 PDF	EXCEL E	DD (DIGITAL)	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply													
Contact:	Paul Narkyagik	\lc	Quality Control (QC) Report with Repo	ort YES	_ NO	See	4 day [P4-20	6]]	EHCY	1 Busi	ness d	ay [E -	100%]				
Phone:	867-793-2881		Compare Resu	ults to Criteria on Report - p			RIOR	3 day [P3-25°	6]]	MERG	Same Day, Weekend or Statutory holiday (E2 -200%							F
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Hamlet of Baker Lake Date Received: 31-JUL-20

ATTN: PAUL NARKYAGIK Report Date: 10-AUG-20 12:59 (MT)

Public Works Foreman - Wastewater Version: FINAL

PO Box 149

Baker Lake NU XOC OAO

Client Phone: 867-793-2881

Certificate of Analysis

Lab Work Order #: L2482392

Project P.O. #: NOT SUBMITTED

Job Reference: HAMLET OF BAKER LAKE - WASTE WATER

C of C Numbers: Legal Site Desc:

Comments: NOTE: No Sterile Bacti bottle was submitted with other bottles for NUNAVUT-WW-GRP1-WP

pkg - Sub-sampled from unpreserved portion and run for TC,EC10-QT97 & FC10-QT97-WP

Hua Wo

Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

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 An ALS Limited Company



L2482392 CONTD.... PAGE 2 of 6 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2482392-1 BAK-2							
Sampled By: CLIENT on 30-JUL-20 @ 08:30							
Matrix: WATER							
T							
Total and E. coli, 1:10 dilution by QT97 Total Coliforms	130	MBHT	10	MPN/100mL		31-JUL-20	R5173392
Escherichia Coli	10	MBHT	10	MPN/100mL		31-JUL-20	R5173392
Nunavut WW Group 1	10		10	IVII TV TOOTILE		01 002 20	10173332
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	30.4		1.2	mg/L		04-AUG-20	
Alkalinity, Carbonate						04.4440.00	
Carbonate (CO3)	<0.60		0.60	mg/L		04-AUG-20	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		04-AUG-20	
Alkalinity, Total (as CaCO3)	νο.στ		0.04	mg/L		04710020	
Alkalinity, Total (as CaCO3)	24.9		1.0	mg/L		31-JUL-20	R5173759
Ammonia by colour							
Ammonia, Total (as N)	<0.010		0.010	mg/L		05-AUG-20	R5174886
Biochemical Oxygen Demand (BOD)	4.0		0.0	m c:/l		24 11 11 00	DE475004
Biochemical Oxygen Demand Carbonaceous BOD	4.0		2.0	mg/L		31-JUL-20	R5175204
BOD Carbonaceous	<2.0		2.0	mg/L		31-JUL-20	R5175204
Chloride in Water by IC							
Chloride (CI)	10.9		0.50	mg/L		31-JUL-20	R5174777
Conductivity							
Conductivity	92.5		1.0	umhos/cm		31-JUL-20	R5173759
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	10	MBHT	10	MPN/100mL		31-JUL-20	R5173394
Hardness Calculated			10	14, 1001112		0.00220	10170004
Hardness (as CaCO3)	28.8	HTC	0.20	mg/L		06-AUG-20	
Mercury Total							
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-20	04-AUG-20	R5174196
Nitrate in Water by IC Nitrate (as N)	<0.020		0.020	mg/L		31-JUL-20	R5174777
Nitrate+Nitrite	<0.020		0.020	IIIg/L		31-30L-20	K31/4///
Nitrate and Nitrite as N	<0.070		0.070	mg/L		06-AUG-20	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		31-JUL-20	R5174777
Oil & Grease - Gravimetric	5.0		5.0	ma m/l		07 4110 00	DE477400
Oil and Grease Phenol (4AAP)	<5.0		5.0	mg/L		07-AUG-20	R5177198
Phenols (4AAP)	<0.0010		0.0010	mg/L		05-AUG-20	R5175495
Phosphorus, Total							
Phosphorus (P)-Total	0.117		0.0030	mg/L		06-AUG-20	R5176078
Sulfate in Water by IC						04	
Sulfate (SO4)	4.52		0.30	mg/L		31-JUL-20	R5174777
Total Metals in Water by CRC ICPMS Aluminum (AI)-Total	0.0280		0.0030	mg/L	05-AUG-20	05-AUG-20	R5175488
Arsenic (As)-Total	0.00069		0.0030	mg/L	05-AUG-20	05-AUG-20 05-AUG-20	R5175488
Cadmium (Cd)-Total	0.0000058		0.0000050	mg/L	05-AUG-20	05-AUG-20	R5175488
Calcium (Ca)-Total	8.86		0.050	mg/L	05-AUG-20	05-AUG-20	R5175488
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	05-AUG-20	05-AUG-20	R5175488
Cobalt (Co)-Total	0.00017		0.00010	mg/L	05-AUG-20	05-AUG-20	R5175488
Copper (Cu)-Total	0.00165		0.00050	mg/L	05-AUG-20	05-AUG-20	R5175488
Iron (Fe)-Total	0.322		0.010	mg/L	05-AUG-20	05-AUG-20	R5175488
Lead (Pb)-Total	0.000071		0.000050	mg/L	05-AUG-20	05-AUG-20	R5175488

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

L2482392 CONTD.... PAGE 3 of 6 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2482392-1 BAK-2							
Sampled By: CLIENT on 30-JUL-20 @ 08:30							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Magnesium (Mg)-Total	1.61		0.0050	mg/L	05-AUG-20	05-AUG-20	R5175488
Manganese (Mn)-Total	0.0589		0.00010	mg/L	05-AUG-20	05-AUG-20	R5175488
Nickel (Ni)-Total	0.00073		0.00050	mg/L	05-AUG-20	05-AUG-20	R5175488
Potassium (K)-Total	1.36		0.050	mg/L	05-AUG-20	05-AUG-20	R5175488
Sodium (Na)-Total	6.02		0.050	mg/L	05-AUG-20	05-AUG-20	R5175488
Zinc (Zn)-Total	0.0083		0.0030	mg/L	05-AUG-20	05-AUG-20	R5175488
Total Organic Carbon by Combustion Total Organic Carbon	6.66		0.50	mg/L		06-AUG-20	R5176327
Total Suspended Solids	0.00		0.50	mg/L		00 A00 20	13170327
Total Suspended Solids	8.7		3.0	mg/L		05-AUG-20	R5176229
pH				· ·			
рН	7.36		0.10	pH units		31-JUL-20	R5173759

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

L2482392 CONTD....

PAGE 4 of 6 Version: FINAL

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MBHT	The APHA 30 hour hold time was exceeded for microbiological testing. Samples processed within 48 hours from time of sampling may be valid in some cases (refer to Health Canada guidance).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-IC-N-WP Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-WP Water Conductivity APHA 2510B

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

FC10-QT97-WP Water Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 44.5 +/- 0.2 degrees C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-T-CVAA-WP Water Mercury Total EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod.)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

L2482392 CONTD....

Reference Information

PAGE 5 of 6 Version: FINAL

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite CALCULATION

NO2-IC-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil &

Grease is determined from the weight of the residue in the vial.

P-T-COL-WP Water Phosphorus, Total APHA 4500 P PHOSPHORUS-L

This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically

after persulphate digestion of the sample.

PH-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a

reference electrode.

PHENOLS-4AAP-WT Water Phenol (4AAP) EPA 9066

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a

red complex which is measured colorimetrically.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

TC,EC10-QT97-WP Water Total and E. coli, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Susbtrate Coliform Test". Total coliforms and Eschericia coli bacteria are simultaneously determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 35.0 +/- 0.5 degrees C for 18 or 24 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

** 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
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

L2482392 CONTD....

PAGE 6 of 6 Version: FINAL

Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

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.

Environmental

Chain of Custody (COC) / Analytical Request Form

- Canada Toll Free: 1 800 668 9878

COC Number: 17 - 781478

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	www.aisgiobal.com																			
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Hamlet of Baker Lake Date Received: 26-AUG-20

ATTN: PAUL NARKYAGIK Report Date: 02-SEP-20 12:38 (MT)

Public Works Foreman - Wastewater Version: FINAL

PO Box 149

Baker Lake NU XOC 0A0

Client Phone: 867-793-2881

Certificate of Analysis

Lab Work Order #: L2494499

Project P.O. #: NOT SUBMITTED

Job Reference: HAMLET OF BAKER LAKE - WASTE WATER

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 26-AUG-20 14:21

Hua wo

Chemistry Laboratory 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 An ALS Limited Company



L2494499 CONTD.... PAGE 2 of 6 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2494499-1 BAK-2							
Sampled By: Paul Narkyggik on 25-AUG-20 @ 08:40							
Matrix: Waste Water							
Watth. Waste Water							
Nunavut WW Group 1							
Alkalinity, Bicarbonate	20.5		4.0			20 4110 20	
Bicarbonate (HCO3) Alkalinity, Carbonate	28.5		1.2	mg/L		28-AUG-20	
Carbonate (CO3)	<0.60		0.60	mg/L		28-AUG-20	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		28-AUG-20	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	23.4		1.0	mg/L		27-AUG-20	R5203305
Ammonia by colour							11020000
Ammonia, Total (as N)	0.019		0.010	mg/L		01-SEP-20	R5208683
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	7.7		2.0	mg/L		27-AUG-20	R5208069
Carbonaceous BOD	'.'		2.0	1119/2		21 A00-20	110200003
BOD Carbonaceous	2.8		2.0	mg/L		27-AUG-20	R5208069
Chloride in Water by IC							
Chloride (CI) Conductivity	11.5		0.50	mg/L		27-AUG-20	R5205897
Conductivity	90.7		1.0	umhos/cm		27-AUG-20	R5203305
Fecal coliforms, 1:10 dilution by QT97							
Fecal Coliforms	10	MBHT	10	MPN/100mL		26-AUG-20	R5202940
Note: MBHT qualifier added Hardness Calculated							
Hardness (as CaCO3)	32.2	HTC	0.20	mg/L		31-AUG-20	
Mercury Total							
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	27-AUG-20	01-SEP-20	R5208814
Nitrate in Water by IC Nitrate (as N)	<0.020		0.020	mg/L		27-AUG-20	R5205897
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		01-SEP-20	
Nitrite in Water by IC Nitrite (as N)	<0.010		0.010	mg/L		27-AUG-20	R5205897
Oil & Grease - Gravimetric	<0.010		0.010	1119/1		21 400 20	13203037
Oil and Grease	<5.0		5.0	mg/L		01-SEP-20	R5207379
Phenol (4AAP)	-0.0040		0.0010	m m/I		20 4110 22	DE004040
Phenols (4AAP) Phosphorus, Total	<0.0010		0.0010	mg/L		28-AUG-20	R5204943
Phosphorus (P)-Total	0.114		0.0030	mg/L		28-AUG-20	R5203546
Sulfate in Water by IC							
Sulfate (SO4)	5.41		0.30	mg/L		27-AUG-20	R5205897
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0334		0.0030	mg/L	28-AUG-20	28-AUG-20	R5205361
Arsenic (As)-Total	0.00067		0.00010	mg/L	28-AUG-20	28-AUG-20	R5205361
Cadmium (Cd)-Total	0.0000104		0.0000050	mg/L	28-AUG-20	28-AUG-20	R5205361
Calcium (Ca)-Total	10.1		0.050	mg/L	28-AUG-20	28-AUG-20	R5205361
Chromium (Cr)-Total	0.00013		0.00010	mg/L	28-AUG-20	28-AUG-20	R5205361
Cobalt (Co)-Total	0.00014		0.00010	mg/L	28-AUG-20	28-AUG-20	R5205361
Copper (Cu)-Total	0.00195		0.00050	mg/L	28-AUG-20	28-AUG-20	R5205361
Iron (Fe)-Total	0.254		0.010	mg/L	28-AUG-20	28-AUG-20	R5205361
Lead (Pb)-Total	0.000096		0.000050	mg/L	28-AUG-20	28-AUG-20	R5205361
Magnesium (Mg)-Total	1.69		0.0050	mg/L	28-AUG-20	28-AUG-20	R5205361
Manganese (Mn)-Total	0.0295		0.00010	mg/L	28-AUG-20	28-AUG-20	R5205361
Nickel (Ni)-Total	0.00083		0.00050	mg/L	28-AUG-20	28-AUG-20	R5205361

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

L2494499 CONTD.... PAGE 3 of 6 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
 L2494499-1 BAK-2							
Sampled By: Paul Narkyggik on 25-AUG-20 @ 08:40							
Matrix: Waste Water							
Total Metals in Water by CRC ICPMS							
Potassium (K)-Total Sodium (Na)-Total	1.34 6.42		0.050 0.050	mg/L mg/L	28-AUG-20 28-AUG-20	28-AUG-20 28-AUG-20	R5205361 R5205361
Zinc (Zn)-Total	0.0379		0.000	mg/L	28-AUG-20	28-AUG-20 28-AUG-20	R5205361
Total Organic Carbon by Combustion	0.0070		0.0000	9/=	207.002	207.0020	11020001
Total Organic Carbon	8.92		0.50	mg/L		28-AUG-20	R5205590
Total Suspended Solids Total Suspended Solids	0.7		2.0			27-AUG-20	D5004700
pH	8.7		3.0	mg/L		21-AUG-20	R5204760
pH	7.88		0.10	pH units		27-AUG-20	R5203305
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^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

L2494499 CONTD....

PAGE 4 of 6 Version: FINAL

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MBHT	The APHA 30 hour hold time was exceeded for microbiological testing. Samples processed within 48 hours from time of sampling may be valid in some cases (refer to Health Canada guidance).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-IC-N-WP Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-WP Water Conductivity APHA 2510B

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

FC10-QT97-WP Water Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 44.5 +/- 0.2 degrees C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-T-CVAA-WP Water Mercury Total EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod.)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

L2494499 CONTD....

Reference Information

PAGE 5 of 6 Version: FINAL

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite CALCULATION

NO2-IC-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil &

Grease is determined from the weight of the residue in the vial.

P-T-COL-WP Water Phosphorus, Total APHA 4500 P PHOSPHORUS-L

This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically

after persulphate digestion of the sample.

PH-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a

reference electrode.

PHENOLS-4AAP-WT Water Phenol (4AAP) EPA 9066

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a

red complex which is measured colorimetrically.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

** 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

 WT
 ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

L2494499 CONTD....

Reference Information

PAGE 6 of 6 Version: FINAL

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

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.

White Paper Co. 604 951-3900 ---

Chain of Custody (COC) / Analytical Request Form

L2494499 COTO

COC Number: 17 - 752213

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Canada Toll Free: 1 800 668 9878

	www.alsglobal.com				100				<u>. </u>	٠								
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Contact:	Paul Narkyagik 867-793-2881	Quality Control (Q	C) Report with Rep	ort YES	[] ю	<u> </u>	day [P4-	20%]	<u> </u>	ξ	1 Busi	ness d	lay [E	- 100%]				一同
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Hamlet of Baker Lake Date Received: 24-SEP-20

ATTN: PAUL NARKYAGIK Report Date: 02-OCT-20 13:19 (MT)

Public Works Foreman - Wastewater Version: FINAL

PO Box 149

Baker Lake NU XOC OAO

Client Phone: 867-793-2881

Certificate of Analysis

Lab Work Order #: L2507661

Project P.O. #: NOT SUBMITTED

Job Reference: HAMLET OF BAKER LAKE - WASTE WATER

C of C Numbers: Legal Site Desc:

Hua Wo

Chemistry Laboratory Manager

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L2507661 CONTD.... PAGE 2 of 6 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507661-1 BAK-2							
Sampled By: PN on 23-SEP-20 @ 08:45							
Matrix: WATER							
Total and E. coli, 1:10 dilution by QT97 Total Coliforms	160	PEHT	10	MPN/100mL		25-SEP-20	R5238136
Escherichia Coli	<10	PEHT	10	MPN/100mL		25-SEP-20	R5238136
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	28.9		1.2	mg/L		25-SEP-20	
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		25-SEP-20	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		25-SEP-20	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	23.7		1.0	mg/L		24-SEP-20	R5235789
Ammonia by colour Ammonia, Total (as N)	<0.010		0.010	mg/L		25-SEP-20	R5241312
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	2.8		2.0	mg/L		24-SEP-20	R5242487
Carbonaceous BOD							
BOD Carbonaceous Chloride in Water by IC	2.1		2.0	mg/L		24-SEP-20	R5242487
Chloride (CI)	12.1		0.50	mg/L		24-SEP-20	R5238110
Conductivity Conductivity	101		1.0	umhos/cm		24-SEP-20	R5235789
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	<10		10	MPN/100mL		24-SEP-20	R5235924
Hardness Calculated Hardness (as CaCO3)	33.2	нтс	0.20	mg/L		01-OCT-20	
Mercury Total Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	29-SEP-20	29-SEP-20	R5242673
Nitrate in Water by IC Nitrate (as N)	<0.020		0.020	mg/L		24-SEP-20	R5238110
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		28-SEP-20	
Nitrite in Water by IC Nitrite (as N)	<0.010		0.010	mg/L		24-SEP-20	R5238110
Oil & Grease - Gravimetric							
Oil and Grease Phenol (4AAP)	<5.0		5.0	mg/L		02-OCT-20	R5244088
Phenols (4AAP) Phosphorus, Total	<0.0010		0.0010	mg/L		28-SEP-20	R5241770
Phosphorus (P)-Total Sulfate in Water by IC	0.0649		0.0030	mg/L		28-SEP-20	R5241526
Sulfate (SO4) Total Metals in Water by CRC ICPMS	7.05		0.30	mg/L		24-SEP-20	R5238110
Aluminum (Al)-Total	0.0395		0.0030	mg/L	28-SEP-20	28-SEP-20	R5241703
Arsenic (As)-Total	0.00046		0.00010	mg/L	28-SEP-20	28-SEP-20	R5241703
Cadmium (Cd)-Total	0.0000059		0.0000050	"	28-SEP-20	28-SEP-20	R5241703
Calcium (Ca)-Total	10.3		0.050	mg/L	28-SEP-20	28-SEP-20	R5241703
Chromium (Cr)-Total	0.00038		0.00010	mg/L	28-SEP-20	28-SEP-20	R5241703
Cobalt (Co)-Total	0.00011		0.00010	mg/L	28-SEP-20	28-SEP-20	R5241703
Copper (Cu)-Total	0.00212		0.00050	mg/L	28-SEP-20	28-SEP-20	R5241703
Iron (Fe)-Total	0.134		0.010	mg/L	28-SEP-20	28-SEP-20	R5241703
Lead (Pb)-Total	0.000066		0.000050	mg/L	28-SEP-20	28-SEP-20	R5241703

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

L2507661 CONTD.... PAGE 3 of 6 Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507661-1 BAK-2							
Sampled By: PN on 23-SEP-20 @ 08:45							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Magnesium (Mg)-Total	1.84		0.0050	mg/L	28-SEP-20	30-SEP-20	R5243388
Manganese (Mn)-Total	0.0126		0.00010	mg/L	28-SEP-20	30-SEP-20	R5243388
Nickel (Ni)-Total	0.00078		0.00050	mg/L	28-SEP-20	28-SEP-20	R5241703
Potassium (K)-Total	1.45		0.050	mg/L	28-SEP-20	28-SEP-20	R5241703
Sodium (Na)-Total Zinc (Zn)-Total	7.17		0.050	mg/L	28-SEP-20 28-SEP-20	30-SEP-20 28-SEP-20	R5243388
Total Organic Carbon by Combustion	0.0092		0.0030	mg/L	20-3EF-20	20-3EF-20	R5241703
Total Organic Carbon	6.89		0.50	mg/L		28-SEP-20	R5241846
Total Suspended Solids				· ·			
Total Suspended Solids	9.2		3.0	mg/L		28-SEP-20	R5242323
pH						04.055.55	B-005
pH	7.51		0.10	pH units		24-SEP-20	R5235789

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

L2507661 CONTD....

Reference Information

PAGE 4 of 6 Version: FINAL

Sample Parameter Qualifier Key:

Qualifier	Description
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-IC-N-WP Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-WP Water Conductivity APHA 2510B

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

FC10-QT97-WP Water Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 44.5 +/- 0.2 degrees C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-T-CVAA-WP Water Mercury Total EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod.)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

L2507661 CONTD.... PAGE 5 of 6

Version: FINAL

Reference Information

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Test Method References:

ALS Test Code Matrix Test Description Method Reference**

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite CALCULATION

NO2-IC-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil &

Grease is determined from the weight of the residue in the vial.

P-T-COL-WP Water Phosphorus, Total APHA 4500 P PHOSPHORUS-L

This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically

after persulphate digestion of the sample.

PH-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a

reference electrode.

PHENOLS-4AAP-WT Water Phenol (4AAP) EPA 9066

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a

red complex which is measured colorimetrically.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

TC,EC10-QT97-WP Water Total and E. coli, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Susbtrate Coliform Test". Total coliforms and Eschericia coli bacteria are simultaneously determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 35.0 +/- 0.5 degrees C for 18 or 24 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

** 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
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

L2507661 CONTD....

Reference Information

PAGE 6 of 6 Version: FINAL

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

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.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2507661-COFC

coc Number: 17 - 747825

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REFER TO BACK I	PAGE FOR ALS COCATIONS AND SAMPLING INFORMATION	V	WHI	TE - LABORATORY	COPY YELLO	Ý - CLIEN	T COPY											JUNE 20	016 FRONT

ANNUAL REPORT FOR THE HAMLET OF BAKER LAKE

Appendix C: Hazardous Materials Spill Database

Spill	Occurance Date -	Spill Region	Location	Location Description	Product Spilled	Quantity	Measurement	Spill Cause	Lead Agency
spill- 2020400	October 15, 2020	Keewatin	Baker Lake, Community, Nunavut	Unit #202, Baker Lake, NU.	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	Unknown Quantity		Tank Leak	GN - Government of Nunavut
spill- 2020326	September 10, 2020	Keewatin	Baker Lake, Community, Nunavut	North shore of Baker Lake, Baker Lake, NU	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	Unknown Quantity		Other	GN - Government of Nunavut
spill- 2020043	January 28, 2020	Keewatin	Baker Lake, Community, Nunavut	VOR	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	3.00	Litres	Breakage	GN - Government of Nunavut
spill- 2020361	January 1, 2020	Keewatin	Baker Lake, Community, Nunavut	800m from Kiyuk Lake	Petroleum - crude oil	10.00	Litres	Other	CIRNAC - Crown- Indigenous Relations and Northern Affairs Canada

ANNUAL REPORT FOR THE HAMLET OF BAKER LAKE

Appendix D: Baker Lake 2020 Sampling Summary

Baker Lake BAK-2

BAK-2				20	20	
Parameter	Unit	DL	14-Jul-20	30-Jul-20	25-Aug-20	23-Sep-20
Alkalinity	5 ¢		2100.20	56 56. 26		10 00p 10
Bicarbonate (HCO3)	mg/L	1.2	28.3	30.4	28.5	28.9
Carbonate (CO3)	mg/L	0.60	0.60	<0.60	0.60	<0.60
Hydroxide (OH)	mg/L	0.34	0.34	<0.34	0.34	<0.34
Total (as CaCO3)	mg/L	1.0	23.2	24.9	23.4	23.7
Ammonia by Colour	t.					
Total (as N)	mg/L	0.20	0.010	<0.010	0.019	<0.010
Biochemical Oxygen Demand (BOD)	/I	6.0	2.1	1.0	7.7	2.0
Biochemical Oxygen Demand Carbonaceous BOD	mg/L	6.0	3.1	4.0	7.7	2.8
BOD Carbonaceous	mg/L	6.0	2.0	<2.0	2.8	2.1
Chloride in Water by IC	1116/ 2	0.0	2.0	12.0	2.0	2.1
Chloride (CI)	mg/L	10	10.1	10.9	11.5	12.1
Conductivity	Ö/		-		-	
Conductivity	umhos/cm	1.0	80.4	92.5	90.7	101
Fecal Coliforms						
Fecal Coliforms	MPN/100mL	3	10	10	10	<10
Hardness Calculated						
Hardness (as CaCO3)	mg/L	0.30	26.7	28.8	32.2	33.2
Mercury Total						
Mercury (Hg)	mg/L	0.00020	0.0000050	<0.000050	0.0000050	<0.0000050
Nitrate in Water by IC						
Nitrate (as N)	mg/L	0.40	0.020	<0.020	0.020	<0.020
Nitrate + Nitrite	/	0.45	0.070	0.070	2.272	0.070
Nitrate and Nitrite as N	mg/L	0.45	0.070	<0.070	0.070	<0.070
Nitrite in Water by IC	/I	0.20	0.010	10.010	0.010	r0 010
Nitrite (as N)	mg/L	0.20	0.010	<0.010	0.010	<0.010
Oil & Grease - Gravimetric Oil and Grease	mg/L	5.0	5.0	<5.0	5.0	<5.0
Phenol	IIIg/L	3.0	5.0	\3.0	5.0	\3.0
Phenols	mg/L	0.0010	0.0010	<0.0010	0.0010	<0.0010
Phosphorus, Total	1116/ 2	0.0010	0.0010	10.0010	0.0010	10.0010
Phosphorus (P)	mg/L	0.010	0.0852	0.117	0.114	0.0649
Sulfate in Water by IC	C,					
Sulfate (SO4)	mg/L	6.0	3.38	4.52	5.41	7.05
Total Metals by ICP-MS						
Aluminium (Al)	mg/L	0.0050	0.0264	0.028	0.0334	0.0395
Arsenic (As)	mg/L	0.00020	0.0005	0.00069	0.00067	0.00046
Cadmium (Cd)	mg/L	0.000010	0.0000062	0.0000058	0.0000104	0.0000059
Calcium (Ca)	mg/L	0.10	8.01	8.86	10.1	10.3
Chromium (Cr)	mg/L	0.0010	0.00012	<0.00010	0.00013	0.00038
Cobalt (Co)	mg/L	0.00020	0.00015	0.00017	0.00014	0.00011
Copper (Cu)	mg/L	0.00020	0.00135	0.00165	0.00195	0.00212
Iron (Fe)	mg/L	0.010	0.0650	0.3220	0.2540	0.134
Lead (Pb) Magnesium (Mg)	mg/L mg/l	0.000090	0.000077 1.63	0.000071 1.61	0.000096 1.69	0.000066 1.84
Manganese (Mn)	mg/L mg/L	0.00030	0.0460	0.0589	0.0295	0.0126
Nickel (Ni)	mg/L	0.0020		0.00073	0.00083	0.00078
			0.00058			
Potassium (K)			0.00058 1.14			
Potassium (K) Sodium (Na)	mg/L mg/L	0.020	1.14 6.07	1.36	1.34 6.42	1.45 7.17
Potassium (K) Sodium (Na) Zinc (Zn)	mg/L	0.020	1.14	1.36	1.34	1.45
Sodium (Na)	mg/L mg/L	0.020 0.030	1.14 6.07	1.36 6.02	1.34 6.42	1.45 7.17
Sodium (Na) Zinc (Zn)	mg/L mg/L	0.020 0.030	1.14 6.07	1.36 6.02	1.34 6.42	1.45 7.17
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L	0.020 0.030 0.0020	1.14 6.07 0.0061	1.36 6.02 0.0083	1.34 6.42 0.0379	1.45 7.17 0.0092
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids	mg/L mg/L mg/L	0.020 0.030 0.0020	1.14 6.07 0.0061	1.36 6.02 0.0083	1.34 6.42 0.0379	1.45 7.17 0.0092
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH	mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50	1.14 6.07 0.0061 6.16	1.36 6.02 0.0083 6.66	1.34 6.42 0.0379 8.92 8.7	1.45 7.17 0.0092 6.89 9.2
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH	mg/L mg/L mg/L mg/L mg/L pH Units	0.020 0.030 0.0020 0.50 13	1.14 6.07 0.0061 6.16 6.6 7.25	1.36 6.02 0.0083 6.66 8.7	1.34 6.42 0.0379 8.92 8.7 7.88	1.45 7.17 0.0092 6.89 9.2 7.51
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene	mg/L mg/L mg/L mg/L mg/L pH Units mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050	1.14 6.07 0.0061 6.16 6.6 7.25 N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010	1.14 6.07 0.0061 6.16 6.6 7.25 N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene o-Xylene	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10)	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050 0.10	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene 0-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.10 0.25	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A N/A N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene 0-Xylene F1 (C6-C10) F2 (C10-C16) F3 (C16-C34)	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.10 0.25 0.25	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A N/A N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A N/A N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A N/A N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A N/A N/A N/A
Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene 0-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L pH Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.10 0.25	1.14 6.07 0.0061 6.16 6.6 7.25 N/A N/A N/A N/A	1.36 6.02 0.0083 6.66 8.7 7.36 N/A N/A N/A N/A	1.34 6.42 0.0379 8.92 8.7 7.88 N/A N/A N/A N/A	1.45 7.17 0.0092 6.89 9.2 7.51 N/A N/A N/A N/A

Baker Lake BAK-3

ВАК-3			
Parameter	Unit	DL	2020 14-Jul-20
Parameter Alkalinity	Oilit	DL	14-Jui-20
Bicarbonate (HCO3)	mg/L	1.2	40.0
Carbonate (CO3)	mg/L	0.60	0.6
Hydroxide (OH)	mg/L	0.34	0.3
Total (as CaCO3)	mg/L	1.0	32.8
Ammonia by Colour	6/ =	2.0	52.0
Total (as N)	mg/L	0.20	0.124
Biochemical Oxygen Demand (BOD)	8/ -	0.20	0.22
Biochemical Oxygen Demand	mg/L	6.0	4.4
Carbonaceous BOD	,		
BOD Carbonaceous	mg/L	6.0	2.0
Chloride in Water by IC			
Chloride (Cl)	mg/L	10	13.40
Conductivity			
Conductivity	umhos/cm	1.0	133.0
Fecal Coliforms			
Fecal Coliforms	MPN/100mL	3	10
Hardness Calculated			
Hardness (as CaCO3)	mg/L	0.30	39.2
Mercury Total			
Mercury (Hg)	mg/L	0.00020	0.0000050
Nitrate in Water by IC			
Nitrate (as N)	mg/L	0.40	0.962
Nitrate + Nitrite			
Nitrate and Nitrite as N	mg/L	0.45	1.02
Nitrite in Water by IC			
Nitrite (as N)	mg/L	0.20	0.057
Oil & Grease - Gravimetric			
Oil and Grease	mg/L	5.0	5.0
Phenol	/1	0.0040	0.0040
Phenols	mg/L	0.0010	0.0010
Discoult come Tatal			
Phosphorus, Total	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.010	0.030
Phosphorus (P)	mg/L	0.010	0.920
Phosphorus (P) Sulfate in Water by IC			
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4)	mg/L	0.010 6.0	0.920 9.79
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS	mg/L	6.0	9.79
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI)	mg/L	6.0 0.0050	9.79 0.0454
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As)	mg/L mg/L mg/L	6.0 0.0050 0.00020	9.79 0.0454 0.00075
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd)	mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010	9.79 0.0454 0.00075 0.0000050
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca)	mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10	9.79 0.0454 0.00075 0.0000050 11.7
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010	9.79 0.0454 0.00075 0.000050 11.7 0.00015
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00035
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00035 0.00371
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00035 0.00371 0.938
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00371 0.938 0.000140
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090 0.010	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00371 0.938 0.000140 2.46
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.0035 0.00371 0.938 0.000140
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090 0.010 0.00030	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00037 0.938 0.000140 2.46 0.1150 0.00094
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020	9.79 0.0454 0.00075 0.000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.030 0.0020	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids PH pH	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00037 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.030 0.0020 0.50	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids PH pH	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00037 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (AS) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00020 0.010 0.00020 0.010 1.00020 0.0020 0.0020 0.030 0.0020 13 0.10 0.00050 0.0010 0.00050	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.0035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene O-Xylene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 13 0.10 0.00050 0.0010 0.00050 0.00050	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.0035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 7.4 N/A N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene O-Xylene F1 (C6-C10)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.00050 0.00050 0.10	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.0035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A N/A N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids PH pH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16) F3 (C16-C34)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.0010 0.00050 0.10 0.25 0.25	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.0037 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A N/A N/A N/A N/A
Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	9.79 0.0454 0.00075 0.0000050 11.7 0.00015 0.0035 0.00371 0.938 0.000140 2.46 0.1150 0.00094 3.20 10.5 0.0046 10.20 7.4 N/A N/A N/A N/A N/A

Baker Lake BAK-4

BAK-4			2020
Parameter	Unit	DL	14-Jul-20
Alkalinity	Onic	91	14 341 20
Bicarbonate (HCO3)	mg/L	1.2	53.9
Carbonate (CO3)	mg/L	0.60	0.60
Hydroxide (OH)	mg/L	0.34	0.34
Total (as CaCO3)	mg/L	1.0	44.2
Ammonia by Colour			
Total (as N)	mg/L	0.20	3.26
Biochemical Oxygen Demand (BOD)			
Biochemical Oxygen Demand	mg/L	6.0	14.5
Carbonaceous BOD			
BOD Carbonaceous	mg/L	6.0	7.5
Chloride in Water by IC			
Chloride (Cl)	mg/L	10	15.1
Conductivity			
Conductivity	umhos/cm	1.0	148
Fecal Coliforms			
Fecal Coliforms	MPN/100mL	3	5170
Hardness Calculated		0.30	22.7
Hardness (as CaCO3)	mg/L	0.30	32.7
Mercury (Hg)		0.00000	0.0000050
Mercury (Hg)	mg/L	0.00020	0.0000050
Nitrate in Water by IC	/I	0.40	0.463
Nitrate (as N)	mg/L	0.40	0.462
Nitrate + Nitrite	ma/l	0.45	0.613
Nitrate and Nitrite as N	mg/L	0.45	0.612
Nitrite in Water by IC	ma/l	0.20	0.151
Nitrite (as N) Oil & Grease - Gravimetric	mg/L	0.20	0.151
Oil and Grease	mg/L	5.0	5.0
Phenol	IIIg/L	3.0	3.0
Phonols	ma/I	0.0010	0.0014
Phenols Phenols Total	mg/L	0.0010	0.0014
Phosphorus, Total			
Phosphorus, Total Phosphorus (P)	mg/L mg/L	0.0010	0.0014 1.13
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC	mg/L	0.010	1.13
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4)			
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS	mg/L mg/L	0.010 6.0	1.13 4.49
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI)	mg/L mg/L mg/L	0.010 6.0 0.0050	1.13 4.49 0.198
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As)	mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020	1.13 4.49 0.198 0.00070
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd)	mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010	1.13 4.49 0.198 0.00070 0.0000119
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10	1.13 4.49 0.198 0.00070 0.0000119 9.60
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010	1.13 4.49 0.198 0.00070 0.0000119
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090 0.010	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.00010 0.10 0.00020 0.00020 0.00020 0.010 0.000090 0.010 0.00030	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.00020 0.010 0.000090 0.010 0.00030 0.0020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020 0.0030	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020 0.0030	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.00010 0.10 0.0010 0.00020 0.010 0.00030 0.0020 0.030 0.0020 0.030 0.0020 0.50	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.00010 0.10 0.0010 0.00020 0.010 0.00030 0.0020 0.030 0.0020 0.030 0.0020 0.50	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.098 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00030 0.0020 0.0020 0.0020 0.0020 0.030 0.0020 0.50	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids pH pH	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 0.50 13	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids PH pH Benzene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00020 0.010 0.00020 0.010 0.00020 1.3 0.10 0.00050 0.0010 0.00050	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4 7.5 0.00050 0.0010 0.00050
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids PH pH Benzene Toluene Ethyl Benzene O-Xylene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00020 0.010 0.00020 0.010 0.00020 1.3 0.10 0.00050 0.0010 0.00050 0.0010	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4 7.5 0.00050 0.0010 0.00050 0.00050
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids PH pH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00020 0.010 0.00020 0.010 0.00020 1.3 0.10 0.00050 0.0010 0.00050	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4 7.5 0.00050 0.0010 0.00050
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00030 0.0020 0.0020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.098 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 7.5 0.00050 0.0010 0.00050 0.00050 0.10
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids PH PH PH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16) F3 (C16-C34)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.010 0.00030 0.010 0.0020 0.020 0.030 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.0010 0.00050 0.10	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4 7.5 0.00050 0.0010 0.00050 0.0010 0.10 0.
Phosphorus, Total Phosphorus (P) Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene o-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00030 0.0020 0.0020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	1.13 4.49 0.198 0.00070 0.0000119 9.60 0.00040 0.00039 0.00823 0.98 0.000456 2.12 0.0818 0.00121 3.63 11.5 0.0162 12.6 26.4 7.5 0.00050 0.0010 0.00050 0.00050 0.10

Baker Lake BAK-5

BAK-5			2020
Parameter	Unit	DL	14-Jul-20
Alkalinity	Onic	DL	14-301-20
Bicarbonate (HCO3)	mg/L	1.2	89.7
Carbonate (CO3)	mg/L	0.60	0.60
Hydroxide (OH)	mg/L	0.34	0.34
Total (as CaCO3)	mg/L	1.0	73.5
Ammonia by Colour			
Total (as N)	mg/L	0.20	3.55
Biochemical Oxygen Demand (BOD)			
Biochemical Oxygen Demand	mg/L	6.0	12.6
Carbonaceous BOD BOD Carbonaceous	mg/L	6.0	8.6
Chloride in Water by IC	IIIg/L	6.0	0.0
Chloride (CI)	mg/L	10	12.3
Conductivity	6/ =	10	12.0
Conductivity	umhos/cm	1.0	198
Fecal Coliforms			
Fecal Coliforms	MPN/100mL	3	2910
Hardness Calculated			
Hardness (as CaCO3)	mg/L	0.30	66.7
Mercury Total			
Mercury (Hg)	mg/L	0.00020	0.0000050
Nitrate in Water by IC	ma/1	0.40	0.200
Nitrate (as N) Nitrate + Nitrite	mg/L	0.40	0.286
Nitrate + Nitrite Nitrate and Nitrite as N	mg/L	0.45	0.386
Nitrite in Water by IC	IIIg/L	0.43	0.380
Nitrite (as N)	mg/L	0.20	0.100
Oil & Grease - Gravimetric	8/ =	0.20	0.200
Oil and Grease	mg/L	5.0	5.0
Phenol			
Phenols	mg/L	0.0010	0.0053
Phosphorus, Total			
Phosphorus (P)	mg/L	0.010	1.15
Sulfate in Water by IC			
Sulfate in Water by IC Sulfate (SO4)	mg/L mg/L	0.010 6.0	1.15
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS	mg/L	6.0	10.3
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al)	mg/L mg/L	6.0 0.0050	10.3 0.0861
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As)	mg/L mg/L mg/L	6.0 0.0050 0.00020	10.3 0.0861 0.00065
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al)	mg/L mg/L mg/L mg/L	6.0 0.0050	10.3
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd)	mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010	10.3 0.0861 0.00065 0.0000103
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca)	mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10	10.3 0.0861 0.00065 0.0000103 20.4
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr)	mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010	10.3 0.0861 0.00065 0.0000103 20.4 0.00024
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020	0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090	0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090 0.010	0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00090 0.010 0.00030	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192 0.00113
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.0020 0.0020	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.020 0.030	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon by Combustion	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.020 0.030	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.010 0.00090 0.010 0.00030 0.0020 0.030 0.0020 0.50	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids PH pH	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.000090 0.010 0.00020 0.020 0.030 0.0020 13	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 7.4 N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13 0.10 0.00050 0.0010	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 7.4 N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon Total Suspended Solids Total Suspended Solids pH pH Benzene Toluene Ethyl Benzene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.010 0.00020 0.010 0.00020 0.010 1.00020 0.0020 0.0020 0.030 0.0020 13 0.10 0.00050 0.0010 0.00050	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 7.4 N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene O-Xylene	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.00020 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 13 0.10 0.00050 0.0010 0.00050 0.00050	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 7.4 N/A N/A N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene O-Xylene F1 (C6-C10)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.00050 0.00050 0.10	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 N/A N/A N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene O-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 N/A N/A N/A N/A N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (Al) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene O-Xylene F1 (C6-C10) F2 (C10-C16) F3 (C16-C34)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.30 0.0020 0.50 13 0.10 0.00050 0.0010 0.00050 0.0010 0.00050 0.10 0.25 0.25	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 N/A N/A N/A N/A N/A N/A N/A
Sulfate in Water by IC Sulfate (SO4) Total Metals by ICP-MS Aluminium (AI) Arsenic (As) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Zinc (Zn) Total Organic Carbon by Combustion Total Organic Carbon Total Suspended Solids Total Suspended Solids PH PH Benzene Toluene Ethyl Benzene O-Xylene F1 (C6-C10) F2 (C10-C16)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.0 0.0050 0.00020 0.000010 0.10 0.0010 0.00020 0.00020 0.010 0.00030 0.0020 0.020 0.030 0.0020 13 0.10 0.00050 0.0010 0.00050 0.00050 0.100 0.25	10.3 0.0861 0.00065 0.0000103 20.4 0.00024 0.00044 0.00704 1.75 0.000365 3.80 0.192 0.00113 3.31 11.5 0.0101 16.5 12.4 N/A N/A N/A N/A N/A N/A

ANNUAL REPORT FOR THE HAMLET OF BAKER LAKE

Appendix E: CIRNAC Inspection Report

The CIRNAC inspection report was not received by CGS.

ANNUAL REPORT FOR THE HAMLET OF BAKER LAKE

Appendix E: Licensee Representative Annual Inspection Report

<u>2020 Municipal Water Licence Inspection – Baker Lake</u>

The inspection took place on Thursday September 3rd with Paul Narkyagik (Hamlet Foreman), Atuat Shouldice (CIRNAC Inspector), and Connor Faulkner (CGS representative) present. Wastewater samples were completed by the Hamlet prior to the inspection. Some points brought forth by the inspector were:

- No compliance concerns were brought forth by the inspector.
- Due to ongoing COVID-19 restrictions, the Hamlet of Baker lake was not able to get waste drums, bulky metal objects, propane tanks, and other wastes sent south on the AEM ships. This has been rescheduled for work to be completed during the summer of 2021.