YEAR BEING REPORTED: 2020

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. 3BM-ARC1924 issued to the Municipality of Arctic Bay.

a) Quantity of freshwater obtained from all sources and wastewater discharged:

Month Reported	Quantity of Water Obtained from all sources (m ³)	Quantity of Sewage Waste Discharged (m³)
January	2,136.5400	Same
February	1,910.7948	Same
March	2,413.5431	Same
April	2,279.0575	Same
May	2,287.4453	Same
June	2,179.9277	Same
July	2,379.2540	Same
August	2,336.4029	Same
September	2,558.5296	Same
October	2,331.6830	Same
November	2,503.3066	Same
December	2,406.5969	Same
ANNUAL TOTAL	27,723.0814	Same

Note: The quantities of water obtained are as reported in our On Tap Water Delivery System. The water consumption volume is considered equal to the sewage discharge volume because there is no meter at the end of the discharge pipe.

b) Quantity of hazardous and non-hazardous Waste accepted at the Solid Waste Disposal Facility:

Type of Waste	Quantity Accepted
Hazardous Waste	0.62 cubic meters per capita
Household Solid Waste	6.15 cubic meters per capita
Bulky Items / Scrap Metal	3.16 cubic meters per capita

c) Tabular summaries of all data generated under the "Monitoring Program", including an interpretation and discussion of Wastewater treatment levels of the Wastewater Treatment Facility, as well as the treatment efficiency of the Vegetated Filter Strip Wetland Area;

See **Appendix A** for the tabular summaries. The samples taken for wastewater were from the sewage lagoon north berm ARC-4. All samples met the effluent quality limits under Part D. Item 3. The wastewater was discharged to the wetland treatment area for further treatment. The samples from the wetland were not taken, so an interpretation of the wetland treatment area efficiency cannot be made. No sewage sludge was removed the Wastewater Treatment Facility.

I. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities:

None.

II. A list of unauthorized discharges and summary of follow-up action taken:

See **Appendix C** and **Appendix D.** On February 9, 2020, there was a spill of about 5455 L of wastewater from a sewage truck at the Hamlet Repair Garage Parking Area. The spill was reported to the NWT/NU Spill Line and the Inspector, and a spill report was submitted. The wastewater froze and the spill was cleaned up by hauling the frozen wastewater to the Wastewater Treatment Facility. On February 17, 2020, the spill was inspected by a conservation officer and the spill was closed.

III. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:

None.

IV. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned:

None.

V. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

None.

VI. updates or revisions to the approved Operation and Maintenance Plans:

None.

VII. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

None.

VIII. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

No 2020 CIRNAC Inspection.

- The quantities of water obtained are as reported in our On Tap Water Delivery System
- Seacan placed in Solid Waste Disposal Facility for hazardous materials storage such as batteries

Appendix A: ARC-4 and ARC-6 Effluent Quality Limits

Appendix B: Certificate of Analysis

Appendix C: Hazardous Materials Spill Database, Arctic Bay 2020

Appendix D: Spill Report and Spill Closure

Appendix E: Arctic Bay 2020 CIRNAC Inspection Report

Appendix A

Appendix B



Final Report

C.O.C.: --- REPORT No. B20-28006

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 15-Sep-20

DATE REPORTED: 29-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16207 WATERWORKS NO.

			Client I.D.		First Sample		
			Sample I.D.		B20-28006-1		
			Date Collect	ed	12-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Sep-20/O	77		
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	15-Sep-20/O	326		
pH @25°C	pH Units		SM 4500H	15-Sep-20/O	7.72		
Conductivity @25°C	µmho/cm	1	SM 2510B	15-Sep-20/O	957		
Total Suspended Solids	mg/L	3	SM2540D	16-Sep-20/K	24		
Chloride	mg/L	0.5	SM4110C	16-Sep-20/O	53.3		
Nitrite (N)	mg/L	0.1	SM4110C	16-Sep-20/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	16-Sep-20/O	< 0.1		
Sulphate	mg/L	1	SM4110C	16-Sep-20/O	2		
Aluminum	mg/L	0.01	SM 3120	17-Sep-20/O	0.14		
Arsenic	mg/L	0.001	EPA 200.8	22-Sep-20/O	< 0.001 1		
Cadmium	mg/L	0.005	SM 3120	17-Sep-20/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	17-Sep-20/O	14.8		
Chromium	mg/L	0.002	SM 3120	17-Sep-20/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	17-Sep-20/O	< 0.005		
Copper	mg/L	0.002	SM 3120	17-Sep-20/O	0.047		
Iron	mg/L	0.005	SM 3120	17-Sep-20/O	1.12		
Lead	mg/L	0.02	SM 3120	17-Sep-20/O	< 0.02		
Magnesium	mg/L	0.02	SM 3120	17-Sep-20/O	9.63		
Manganese	mg/L	0.001	SM 3120	17-Sep-20/O	0.353		
Mercury	mg/L	0.00002	SM 3112 B	16-Sep-20/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	17-Sep-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	17-Sep-20/O	23.2		
Sodium	mg/L	0.2	SM 3120	17-Sep-20/O	47.0		
Zinc	mg/L	0.005	SM 3120	17-Sep-20/O	0.056		
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	16-Sep-20/K	78.3		
Phenolics	mg/L	0.002	MOEE 3179	18-Sep-20/K	1.20		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-28006

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 15-Sep-20

DATE REPORTED: 29-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16207

WATERWORKS NO.

			Client I.D.		First Sample		
			Sample I.D.		B20-28006-1		
			Date Collected		12-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD(5 day)	mg/L	3	SM 5210B	17-Sep-20/K	90		
Total Organic Carbon	mg/L	0.2	EPA 415.2	17-Sep-20/O	67.3		
Oil & Grease-Total	mg/L	1.0	SM 5520	22-Sep-20/K	12.6		
Fecal Coliform	cfu/100mL	1	MOE E3371	15-Sep-20/O	92000		

¹ Subcontracted to Paracel Labs

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-28902

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada
Attention:
Deborah Johnson

DATE RECEIVED: 22-Sep-20

DATE REPORTED: 29-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16221

WATERWORKS NO.

			Client I.D.		Mid Decant		
			Sample I.D.		B20-28902-1		
			Date Collect	ed	16-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO3)	mg/L	1	SM 3120	24-Sep-20/O	76		
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	22-Sep-20/O	333		
pH @25°C	pH Units		SM 4500H	22-Sep-20/O	7.66		
Conductivity @25°C	µmho/cm	1	SM 2510B	22-Sep-20/O	960		
Total Suspended Solids	mg/L	3	SM2540D	23-Sep-20/K	40		
Chloride	mg/L	0.5	SM4110C	23-Sep-20/O	52.8		
Nitrite (N)	mg/L	0.1	SM4110C	23-Sep-20/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	23-Sep-20/O	< 0.1		
Sulphate	mg/L	1	SM4110C	23-Sep-20/O	1		
Aluminum	mg/L	0.01	SM 3120	24-Sep-20/O	0.15		
Arsenic	mg/L	0.0005	EPA 200.8	24-Sep-20/O	0.0010		
Cadmium	mg/L	0.005	SM 3120	24-Sep-20/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	24-Sep-20/O	13.9		
Chromium	mg/L	0.002	SM 3120	24-Sep-20/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	24-Sep-20/O	< 0.005		
Copper	mg/L	0.002	SM 3120	24-Sep-20/O	0.047		
Iron	mg/L	0.005	SM 3120	24-Sep-20/O	1.14		
Lead	mg/L	0.02	SM 3120	24-Sep-20/O	< 0.02		
Magnesium	mg/L	0.02	SM 3120	24-Sep-20/O	10.1		
Manganese	mg/L	0.001	SM 3120	24-Sep-20/O	0.348		
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-20/O	0.00002		
Nickel	mg/L	0.01	SM 3120	24-Sep-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	24-Sep-20/O	24.3		
Sodium	mg/L	0.2	SM 3120	24-Sep-20/O	49.2		
Zinc	mg/L	0.005	SM 3120	24-Sep-20/O	0.049		
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	24-Sep-20/K	81.2		
Phenolics	mg/L	0.002	MOEE 3179	23-Sep-20/K	1.00		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-28902

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 22-Sep-20

DATE REPORTED: 29-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16221

WATERWORKS NO.

			Client I.D.		Mid Decant		
			Sample I.D.		B20-28902-1		
			Date Collect	ed	16-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD(5 day)	mg/L	3	SM 5210B	23-Sep-20/K	89		
Total Organic Carbon	mg/L	0.2	EPA 415.2	22-Sep-20/O	59.9		
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Sep-20/K	12.3		
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-20/O	300000		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-29299

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada Attention: Deborah Johnson

DATE RECEIVED: 24-Sep-20

DATE REPORTED: 30-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16227 WATERWORKS NO.

Client I.D.		End of Decant ARC- 8		
Sample I.D.		B20-29299-1		
Date Collect	ed	21-Sep-20		
Reference	Date/Site			

				Date Collected			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO3)	mg/L	1	SM 3120	29-Sep-20/O	76		
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	24-Sep-20/O	323		
pH @25°C	pH Units		SM 4500H	24-Sep-20/O	7.72		
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Sep-20/O	958		
Total Suspended Solids	mg/L	3	SM2540D	25-Sep-20/K	34		
Chloride	mg/L	0.5	SM4110C	25-Sep-20/O	50.7		
Nitrite (N)	mg/L	0.1	SM4110C	25-Sep-20/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	25-Sep-20/O	< 0.1		
Sulphate	mg/L	1	SM4110C	25-Sep-20/O	2		
Aluminum	mg/L	0.01	SM 3120	29-Sep-20/O	0.19		
Arsenic	mg/L	0.0005	EPA 200.8	28-Sep-20/O	0.0010		
Cadmium	mg/L	0.005	SM 3120	29-Sep-20/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	29-Sep-20/O	13.9		
Chromium	mg/L	0.002	SM 3120	29-Sep-20/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	29-Sep-20/O	< 0.005		
Copper	mg/L	0.002	SM 3120	29-Sep-20/O	0.052		
Iron	mg/L	0.005	SM 3120	29-Sep-20/O	1.33		
Lead	mg/L	0.02	SM 3120	29-Sep-20/O	< 0.02		
Magnesium	mg/L	0.02	SM 3120	29-Sep-20/O	9.94		
Manganese	mg/L	0.001	SM 3120	29-Sep-20/O	0.367		
Mercury	mg/L	0.00002	SM 3112 B	29-Sep-20/O	0.00004		
Nickel	mg/L	0.01	SM 3120	29-Sep-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	29-Sep-20/O	23.3		
Sodium	mg/L	0.2	SM 3120	29-Sep-20/O	48.9		
Zinc	mg/L	0.005	SM 3120	29-Sep-20/O	0.048		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-29299

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 24-Sep-20

DATE REPORTED: 30-Sep-20

SAMPLE MATRIX: Waste Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: 2020 Sewage Lagoon Decant

P.O. NUMBER: 16227

WATERWORKS NO.

			Client I.D.		End of Decant ARC- 8		
			Sample I.D.		B20-29299-1		
			Date Collecte	ed	21-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	25-Sep-20/K	77.3		
Phenolics	mg/L	0.002	MOEE 3179	28-Sep-20/K	< 0.002		
BOD(5 day)	mg/L	3	SM 5210B	25-Sep-20/K	79		
Total Organic Carbon	mg/L	0.2	EPA 415.2	25-Sep-20/O	74.3		
Oil & Grease-Total	mg/L	1.0	SM 5520	26-Sep-20/K	10.5		
Fecal Coliform	cfu/100mL	1	MOE E3371	24-Sep-20/O	130000		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-29678

Client I.D.

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 28-Sep-20

DATE REPORTED: 08-Oct-20 SAMPLE MATRIX: Leachate

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

JOB/PROJECT NO.: Summer 2020

P.O. NUMBER: WATERWORKS NO.

Kit. Leachate

					Landfill ARC- 6		
			Sample I.D.		B20-29678-1		
			Date Collect	ed	22-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	'		
Hardness (as CaCO3)	mg/L	1	SM 3120	30-Sep-20/O	568		
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	29-Sep-20/O	133		
pH @25°C	pH Units		SM 4500H	29-Sep-20/O	7.86		
Conductivity @25°C	µmho/cm	1	SM 2510B	29-Sep-20/O	1960		
Total Suspended Solids	mg/L	3	SM2540D	30-Sep-20/K	20		
Chloride	mg/L	0.5	SM4110C	01-Oct-20/O	314		
Nitrite (N)	mg/L	0.1	SM4110C	30-Sep-20/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	30-Sep-20/O	< 0.1		
Sulphate	mg/L	1	SM4110C	01-Oct-20/O	491		
Aluminum	mg/L	0.01	SM 3120	30-Sep-20/O	0.09		
Arsenic	mg/L	0.0005	EPA 200.8	01-Oct-20/O	0.0008		
Cadmium	mg/L	0.000070	EPA 200.8	01-Oct-20/O	0.000070		
Calcium	mg/L	0.02	SM 3120	30-Sep-20/O	118		
Chromium	mg/L	0.002	SM 3120	30-Sep-20/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	30-Sep-20/O	< 0.005		
Copper	mg/L	0.002	SM 3120	30-Sep-20/O	0.004		
Iron	mg/L	0.005	SM 3120	01-Oct-20/O	3.08		
Lead	mg/L	0.0001	EPA 200.8	01-Oct-20/O	0.0002		
Manganese	mg/L	0.001	SM 3120	30-Sep-20/O	1.87		
Mercury	mg/L	0.00002	SM 3112 B	01-Oct-20/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	30-Sep-20/O	0.01		
Potassium	mg/L	0.1	SM 3120	30-Sep-20/O	30.8		
Zinc	mg/L	0.005	SM 3120	30-Sep-20/O	0.014		
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	30-Sep-20/K	0.06		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-29678

Client I.D.

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada **Attention:** Deborah Johnson

DATE RECEIVED: 28-Sep-20

DATE REPORTED: 08-Oct-20 SAMPLE MATRIX: Leachate

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

JOB/PROJECT NO.: Summer 2020

P.O. NUMBER: WATERWORKS NO.

Kit. Leachate

					Leadinate		
					Landfill ARC- 6		
			Sample I.D.		B20-29678-1		
			Date Collecte	ed	22-Sep-20		
			Reference	Date/Site			
Parameter	Units	R.L.	Method	Analyzed			
Phosphorus-Total	mg/L	0.01	E3199A.1	30-Sep-20/K	0.13		
Phenolics	mg/L	0.002	MOEE 3179	01-Oct-20/K	< 0.002		
BOD(5 day)	mg/L	3	SM 5210B	30-Sep-20/K	8		
Total Organic Carbon	mg/L	0.2	EPA 415.2	29-Sep-20/O	21.0		
Oil & Grease-Total	mg/L	1.0	SM 5520	01-Oct-20/K	1.3		
Fecal Coliform	cfu/100mL	1	MOE E3371	29-Sep-20/O	0		
Benzene	μg/L	0.5	EPA 8260	01-Oct-20/R	< 0.5		
Toluene	μg/L	0.5	EPA 8260	01-Oct-20/R	< 0.5		
Ethylbenzene	μg/L	0.5	EPA 8260	01-Oct-20/R	< 0.5		
Xylene, m,p-	μg/L	1.0	EPA 8260	01-Oct-20/R	< 1.0		
Xylene, o-	μg/L	0.5	EPA 8260	01-Oct-20/R	< 0.5		
Xylene, m,p,o-	μg/L	1.1	EPA 8260	01-Oct-20/R	< 1.1		
Toluene-d8 (SS)	% rec.		EPA 8260	01-Oct-20/R	97.1		
PHC F1 (C6-C10)	μg/L	50	MOE E3421	01-Oct-20/R	< 50		
PHC F2 (>C10-C16)	μg/L	50	MOE E3421	05-Oct-20/K	< 50		
PHC F3 (>C16-C34)	μg/L	400	MOE E3421	05-Oct-20/K	< 400		
PHC F4 (>C34-C50)	μg/L	400	MOE E3421	05-Oct-20/K	< 400		
Acenaphthene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.2		
Acenaphthylene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Anthracene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Benzo(a)anthracene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.3		
Benzo(a)pyrene	μg/L	0.01	EPA 8270	08-Oct-20/K	< 0.07		
Benzo(b)fluoranthene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Benzo(b+k)fluoranthene	μg/L	0.1	EPA 8270	08-Oct-20/K	< 0.2		
Benzo(g,h,i)perylene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie



Final Report

C.O.C.: --- REPORT No. B20-29678

Report To:

Hamlet of Arctic Bay

Box 150,

Arctic Bay NU X0A 0A0 Canada
Attention:
Deborah Johnson

DATE RECEIVED: 28-Sep-20

DATE REPORTED: 08-Oct-20 SAMPLE MATRIX: Leachate

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1 Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: Summer 2020

P.O. NUMBER:

Kit

WATERWORKS NO.

					Leachate Landfill ARC- 6		
			Sample I.D.		B20-29678-1		
				ed	22-Sep-20		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Benzo(k)fluoranthene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.09		
Chrysene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Dibenzo(a,h)anthracene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Fluoranthene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.09		
Fluorene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.09		
Indeno(1,2,3,-cd)pyrene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Methylnaphthalene,1-	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Methylnaphthalene,2-	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.1		
Naphthalene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.3		
Phenanthrene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.2		
Pyrene	μg/L	0.05	EPA 8270	08-Oct-20/K	< 0.09		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	08-Oct-20/K	82.0		

Client I D

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

¹ Note: Elevated MDLs due to sample matrix.

Appendix C

spill-2020038

Monday, February 10, 2020 - 14:52

Spill Status

Lead Agency: GN - Government of Nunavut

Occurance Date/Time: Sunday, February 9, 2020 - 18:15

Received Method: Fax

Potential Spill: No

Spill Information



Spill Region: Baffin

Spill Location: Arctic Bay, Community, Nunavut

Spill Location Description: Hamlet Repair Shop Parking Area **Geolocation:** Geolocation is 73.03757499999999, -85.1480309

Land Sea Indicator: Land

Spill Source: Truck

Spill Cause: Collision or Crash

Product Spilled: Wastewater (sewage, mine tailings)

Spill Quantity: 5455.00 **Measurement:** Liters

Area of Contamination: 30.00 sq m

Supporting Information



Water User Permit Number: 3BM-ARC1419

Reporter Information



Reporting Date and Time: Monday, February 10, 2020 - 14:45

Appendix D

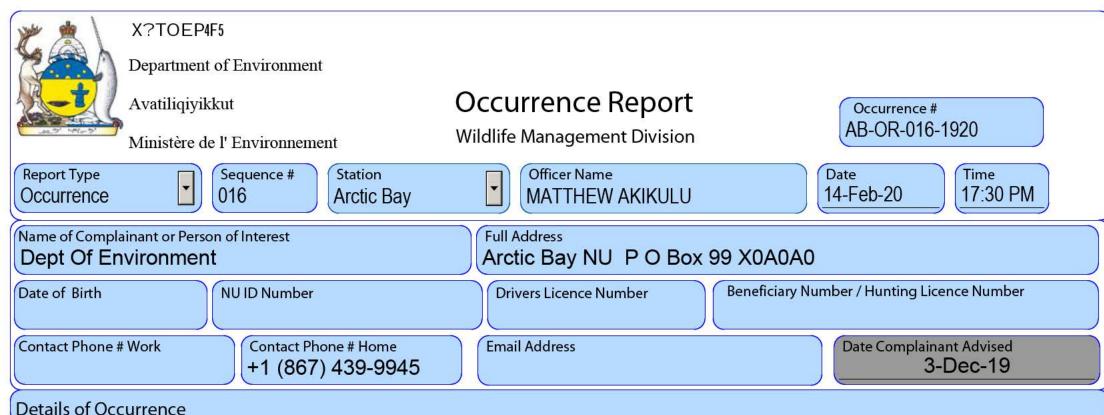




OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

	REPORT DATE: MONTH - DA	Y-YEAR		REPORTTIME		REPORT LINE USE ONLY	
A	702,10	20		a 2 . a	ORIGINAL SPILL RE	PORT,	
-	OCCURRENCE DATE: MONT	H - DAY - YEAR		OCCUPRENCE TIME	OR	REPORT NUMBER	
B	02	09 20		6:15 PM	TO THE ORIGINAL SPIL	L REPORT	
~	LAND USE PERMIT NUMBER			WATER LICENCE NUMB	ED HE ADDITION BLEE		
C				X= 3BM -A	ARCILIG		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION REGION						
ט	Hamlet begair Shop Perking Am						
E	LATITUDE TO DE LONGITUDE (D)						
_	RESPONSIBLE PARTY OR VESSEL NAME, RESPONSIBLE PAR			DEGREES OR OFFICE LOC	MINUTES 0 /	SECONDO 8.1	
F	Sewage.	getrick Por		10x 150, Hamlet of Artic Bay			
G	ANY CONTRACTOR IN DLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION				
G							
	PRODUCT SPILLED	1	QUANTITY IN LIT	RES, KILOGRAMS OR CUBIC ME	TRES U.N. NUMBER		
Н	Waste Water		5,455 Liter Apox.				
1.1	SECOND PRODUCT SPILLED	(IF APPLICABLE)	QUANTITY IN LIT	HES, KILOGRAMS OF CUBIC ME	TRES U.N. NUMBER	441	
1	SPILL SOURCE		SPILL CAUSE	h 1	AREA OF CONTAN	INATION IN SQUARE METRES	
	Densage TV	uck	Hecid		30	tor-	
J	FACTORS AFFECTING SPILL	OR RECOVERY	DESCRIBE ANY	ASSISTANCE REQUIRED	HAZARDS TO PER	SONS, PROPERTY OR ENVIRONMENT	
-	ADDITIONAL INFORMATION	COMMENTS ASTISMS SPACE		NIC	101	-	
	Senage truck endine failed, truck was being						
	Demange	work end	ine t	ailed, tr	uck was	being	
	towed	with F	Frant	end load	20 a. Ha	ا د د د د	
	to near bumper as they got to the repair shop						
K	DADY LAKE	curen al	100 k	araka I	a. 5-		
K parking area, chain broke, Loader Front boon end touched & snapped dump Value air tube florere b							
	612100	011	1 0	all i	ON TENT	of waste	
water spilled/clean up will take place once waster							
	REPORTED TO SPILL LINE BY	VECES W	111000	· Le la fina	con tamin	ate snow to lagoo	
L		reek end	1	EMPLOYER .	LOCATION CALLING FR	OM TELEPHONE	
	ANY ALTERNATE CONTACT	POSITION		EMBI OVER			
M			,	EMPLOYER	ALTERNATE CONTACT	ALTERNATE TELEPHONE	
			REPORT LINE	HOLOMA	LOCATION		
	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYER			
N			1	CMPLOTER	LOCATION CALLED	REPORT LINE NUMBER	
LEAD	STATION OPERATOR				YELLOWKNIFE, NT	(857) 920-8130	
	LEAD AGENCY DEC DCCG DGNWT DGN DILA DINAC DNEB DTC			SIGNIFICANCE I MINOR I	MAJOR I UNKNOWN	FILE STATUS II OPEN II CLOSED	
AGE	AGENCY CONTACT NAME			CONTACT TIME	REMARKS		
LEAD	AGENCY	*			1 44		
FIRS	T SUPPORT AGENCY		-				
SEC	OND SUPPORT AGENCY		**************************************				
THIR	D SUPPORT AGENCY					N I A O KNY	



Recieved a call from EPO Daniel Inuarak regarding a spill. no info to go on. as he was not in his office and did not have access to a computer. He told me there was a spill at a undisclosed location, and the amount. I told him I will go and check the site, sure enought the spill occoured at the hamlet garage in the parking area, asked sam willie foreman of hamlet to clean it up, he replied both loaders are broken down right now and that once one of them is back on the road it will get cleaned up right away. we both decided that it would be better to wait for the product to freeze

Feb 17 2020 product cleaned up and dumped at the sewage lagoon.

OR closed

Spill report 20-038

Activity Details

Date:	Time	Description	X
14-Feb-20	17:30	call from EPO regarding sewage spill.	
17-Feb-20	16:00	check site and confirm clean up. OR closed	

Appendix E

No CIRNAC Inspection undertaken in 2020.