### ANNUAL REPORT FOR THE HAMLET OF RESOLUTE WASTE MANAGEMENT FACILITY, 2014

### YEAR BEING REPORTED: 2014

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-RES 9699 issued to the Hamlet of Resolute Bay.

i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged; 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?

Not applicable

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged (Estimated)
January 2014		Same
February 2014		Same
March 2014		Same
April 2014		Same
May 2014		Same
June 2014		Same
July 2014		Same
August 2014		Same
September 2014		Same
October 2014		Same
November 2014		Same
December 2014		Same
ANNUAL TOTAL		

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 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;

This licence only deals with waste management facilities like domestic waste site-landfill and metal waste site. No modification and/or major maintenance works was carried out on these facilities during the reporting period.

v. <u>a list of unauthorized discharges and summary of follow-up action taken;</u>

Spills: NIL

vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

The existing Land fill site (waste site) and Metal waste site will be abandoned and restored. These facilities will be abandoned only when the new facility is built and commissioned. Currently waste management project is on hold due to funding.

vii. 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;

The design and drawings are complete for the new waste management facility which is proposed to be built in a different location. The new site will accommodate domestic waste, metal waste and land farm in one compound. These documents were already submitted to NWB. However, this project is currently on hold until further notice by GN.

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

Present waste management is the concern of the Nunavut Water Board and AANDC. The new waste management facility is expected to be built soon.

ix. Updates or revisions to the approved Operation and Maintenance Plans.

The existing waste management sites (land fill and metal waste) are non- engineered facilities. However, an O&M manual for waste management sites was prepared and submitted to NWB as the requirements to renew the Hamlet Water Licence.

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#### ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet is working with GN-CGS for water licence compliancy. They are maintaining extended sampling and testing program in order to meet the requirements of the monitoring program established in the Licence. Hamlet is planning to maintain CGS report card in 2015. Monitoring signs were installed this year. Facility sign will be installed during the summer 2015.

This is a standalone licence of the Hamlet of Resolute Bay especially for waste management facility. This licence expired in 1999, renewal application was submitted to NWB. Hamlet is expecting a new licence soon.

#### FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet is working closely with the recently formed Water Licence Compliance Group (WLCG) to deal with inspector's concerns on the water licence compliancy. They are receiving direction to move forward.

Lab Test Results for Chemical analysis of leachate in 2014 are attached.

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### CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: — REPORT No. B14-20418

Report To:

Caduceon Environmental Laboratories

ATCO Structure & Logistics PO Box 88, 2378 Holly Lane Ottawa Ontario K1V 7P1

NU X0A 0V0 Canada Attention: Rick Gaulton Tel: 613-526-0123 Fax: 613-526-1244

DATE RECEIVED: 13-Aug-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

DATE REPORTED: 22-Aug-14 SAMPLE MATRIX: Leachate P.O. NUMBER: WATERWORKS NO.

			Sample LD.  Date Collected		Resolute Landfill		
					B14-20418-1		
					09-Aug-14		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	13-Aug-14/O	910		
BOD	mg/L	3	SM 5210B	15-Aug-14/O	6		
Total Suspended Solids	mg/L	3	SM 2540D	20-Aug-14/O	3		
Hardness (as CaCO3)	mg/L	1	SM 3120	14-Aug-14/O	243		
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	14-Aug-14/O	169		
Conductivity @25°C	µmho/cm	1	SM 2510B	14-Aug-14/O	611		,
pH @25°C	pH Units		SM 4500H	14-Aug-14/O	8.02		
Total Organic Carbon	mg/L	0.2	EPA 415.1	14-Aug-14/O	10.8		
Nitrite (N)	mg/L	0.1	SM4110C	14-Aug-14/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	14-Aug-14/O	0.1		
Chloride	mg/L	0.5	SM4110C	14-Aug-14/O	30.0		
Sulphate	mg/L	1	SM4110C	14-Aug-14/O	121		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	14-Aug-14/O	< 0.01		
Phosphorus-Total	mg/L	0.01	MOEE 3367	21-Aug-14/O	0.06		
Phenolics	mg/L	0.001	MOEE 3179	15-Aug-14/O	0.126		[
Aluminum (total)	mg/L	0.01	SM 3120	14-Aug-14/O	0.06		
Arsenic	mg/L	0.0005	EPA 200.8	14-Aug-14/O	0.0008		
Calcium	mg/L	0.02	SM 3120	14-Aug-14/O	77.4		
Cadmium	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		2
Cobalt	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		
Copper	mg/L	0.002	SM 3120	14-Aug-14/O	0.004		
Chromium	mg/L	0.002	SM 3120	14-Aug-14/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	14-Aug-14/O	0.182		.,
Lead	mg/L	0.02	SM 3120	14-Aug-14/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	14-Aug-14/O	12.1		
Manganese (Total)	mg/L	0.001	SM 3120	14-Aug-14/O	0.057		
Mercury	mg/L	0.00002	SM 3112 B	14-Aug-14/O	< 0.00002		

M.D.L. = Method Detection Limit

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

Gord Murphy

Lab Supervisor