ANNUAL REPORT FOR THE MUNICIPALITY OF ARCTIC BAY

| YEAR E | BEING | REPO | RTED: | 2009 | |
|--------|-------|-------------|-------|------|--|
|--------|-------|-------------|-------|------|--|

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-ARC 0810 issued to the Municipality of Arctic 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.

| Month Reported | Quantity of Water Obtained from all sources (litres) | Quantity of Sewage Waste Discharged |
|----------------|--|--|
| January 2009 | 2,427,699 | Same |
| February 2009 | 1,702,135 | Same |
| March 2009 | 1,767,045 | Same |
| April 2009 | 1,461,360 | Same |
| May 2009 | 1,601,877 | Same |
| June 2009 | 1,525,553 | Same |
| July 2009 | 1,402,241 | Same |
| August 2009 | 1,552,167 | Same |
| September 2009 | 1,845,338 | Same |
| October 2009 | 2,047,738 | Same |
| November 2009 | 1,796,698 | Same |
| December 2009 | 1,853,089 | Same |
| ANNUAL TOTAL | 20,982,940 | Same |

ANNUAL REPORT FOR THE MUNICIPALITY OF ARCTIC BAY

| iv. | 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; |
|-------|--|
| , | Water Truckfill station is hooked up with the power line. The Generator is kept there standby for emergency. The heat trace was repaired. The Filling station is working fine. |
| | |
| v. | a list of unauthorized discharges and summary of follow-up action taken; |
| | The Sewage lagoon overflew once during winter. INAC inspector was notified and spill emergency station was informed. The Liquid was frozen once overflew to the wetland. |
| | |
| vi. | a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year; |
| | Design for the abandonment and restoration of the existing Sewage Lagoon was approved by the NWB. This will be implemented once the new Lagoon is commissioned. The Contractor is on site and currently building the new lagoon. The existing Lagoon will be decommissioned sometime in 2010/2011. |
| 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; |
| | Hamlet waste management plan will be implemented as soon as the fund is available. |
| viii. | any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and |
| | N/A |
| ix, | updates or revisions to the approved Operation and Maintenance Plans. |
| | O&M manual of the new Sewage Lagoon will be updated once the construction is completed. |

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| | Spill Report and Lab test results are attached. |
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| OLLO | OW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS: |
| OLLO | OW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS: It is expected that Department of Community Government Services of Government of |



Chent committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: 78467

REPORT No. 809-35453

Report To:

Hamlet of Arctic Bay

Box 150

Arctic Bay, NU, X0A 0A0 Attention: Sam Willie

DATE RECEIVED: 11-Nov-09

DATE REPORTED: 19-Nov-09 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.: Fall Sewage Lagoon Sample

P.O. NUMBER:

WATERWORKS NO.

| | | | Ctlent I.D.: | | Fali Sewage Lagoon Sample | | |
|-------------------------|-------|---------|-------------------------------|-----------------------|---------------------------------|-------|---------------------------------------|
| | | | Sample I.D.: Date Collecte | :d: | B09-35453-1 04-Nov-09 | | |
| Parameter | Units | M.D.L. | Reference Method | Date/Site Analyzed | | i | t |
| BOD | mg/L | 3 | SM 5210 | 13-Nov-09/O | 418 | | |
| Total Suspended Solids | mg/L | 3 | SM 2540 | 14-Nov-09/O | 212 | | |
| Ammonia (N)-Total | mg/L | 0.01 | EPA 350.2 | 16-Nov-09/O | 65.8 | 1 | |
| Total Kieldahl Nitrogen | mg/L | 0.05 | EPA 351.2 | 17-Nov-09/O | 83.9 | | |
| Phosphorus-Total | mg/L | 0.01 | EPA 365.4 | 17-Nov-09/O | 10.7 | | 1 |
| Aluminum | mg/L | 0.01 | SM 3120 | 18-Nov-09/O | 4.24 | ļ | |
| Antimony | mg/L | 0.0005 | EPA 200.8 | 13-Nov-09/O | < 0.0005 | | |
| Arsenic | mg/L | 0.0005 | EPA 200.8 | 13-Nov-09/O | 0.0026 | 1 | |
| Bismuth | mg/L | 0.02 | SM 3120 | 18-Nov-09/O | < 0.02 | | * |
| Boron | mg/L | 0.005 | SM 3120 | 18-Nov-09/O | 0.059 | | |
| Cadmium | mg/L | 0.005 | SM 3120 | 18-Nov-09/O | < 0.005 | | |
| Chromium | mg/L | 0.002 | SM 3120 | 18-Nov-09/O | 0.006 | | |
| Coball | mg/L | 0.005 | SM 3120 | 18-Nov-09/O | 0.006 | 1 | |
| Copper | mg/L | 0.002 | SM 3120 | 18-Nov-09/O | 0.318 | 1 1 | |
| Lead | n:g/L | 0.02 | SM 3120 | 18-Nov-09/O | < 0.02 | | |
| Manganese | mg/L | 0.001 | SM 3120 | 18-Nov-09/O | 0.046 | } | * "-> |
| Mercury | mg/L | 0.00002 | SM 3112 | 13-Nov-09/O | 0.00017 | i - i | |
| Molybdenum | mg/L | 0.01 | SM 3120 | 18-Nov-09/O | < 0.01 | | · · · · · · · · · · · · · · · · · · · |
| Nickel | mg/L | 0.01 | SM 3120 | 18-Nov-09/O | < 0.01 | . | |
| Selenium | mg/L | 0.001 | EPA 200.8 | 13-Nov-09/C | 0.040 | | |
| Silver | mg/L | 0.005 | SM 3120 | 18-Nov-09/C | < 0.005 | | |
| Tin | mg/L | 0.05 | SM 3120 | 18-Nov-09/C | < 0.05 | | |
| Titanium: | rng/L | 0.005 | SM 3120 | 18-Nov-09/C | | | |
| Vanadium | mg/L | 0.005 | SM 3120 | 18-Nov-09/C | i · | | . † . |
| Zinc | mg/L | 0.005 | SM 3120 | 18-Nov-09/C | 0.451 | | |

M.D.L. - Method Detection Limit

Site Analyzed:=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton

Gord Murphy Lab Supervisor

Environmental Laboratories (Division of Caduceon Enterprises Inc) 78467 佐子のかり Filtrated (V/N) A NIPGIASS OF AL 20130 200 50/21704 Fra Total Clean Up Ortheria (A ... 8 ... C ... 0 ... E ... F ... ANALYSES REQUESTED (Print Test in Boxes) 15 Of 1865/14 fly Using A Check Mark in The Box Provided Profession Test For Each Owner 200 E MISA Guidelines
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<u>9</u> Time Reselved: 3*35 pm ਨ | Laboratory Prepared Bottles: 📋 YES Page Sample Metrix Legend: Diffactiviting Water WW-Waste Water SW-Surface Water GW-Groundwater LS-Liquid Skudge SS-Solid Skudge S-Solid Skudge S-S Darte(dd-mm-yy) Received: | | -- | | -- 09 Received By (print); HOCHINO 10Picss Laboratory Locations/Shipping Addresses No. of Containers Shipped 1000 Fax Results [K] Eur Specific Date: N Karson Time: 1330 Instituted of Shipment: Inc 48 Hrs 5.7 Day ☐ ## Z ₩ ₩ ₩ Sampled By print; Som & Ilie Date(dd-mm-yy); O'M 11 OG Signature: Submitted By (print):

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LABORATORY USE ONLY

Reporting Formel

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