

## **APPENDIX - C**

Municipality of Cape Dorset  
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January 7, 2009

Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, Nunavut X0B 1J0

**ATTN: Technical Advisor**

**Re: 2008 Annual Report for the Hamlet of Cape Dorset**

Please find attached the 2008 annual report for the Hamlet of Cape Dorset,  
Water License NWB 3CAP0207.

Please contact me at 867-897-8943 if you have any questions or comments.

Yours sincerely,

John Ivey  
Senior Administrative Officer

cc: Mike Hayward – Director Municipal Works  
Hamlet Council  
File

ANNUAL REPORT  
FOR THE HAMLET OF CAPE DORSET

YEAR BEING REPORTED: 2008

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence NWB 3CAP0207 issued to the Hamlet of CAPE DORSET

- 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 results for Monitoring station XXX-1, XXX-2, XXX-3 and XXX-4, as well as detailed chemical, physical and biological analysis required at XXX-2 and XXX-4 (for the months of May to August, inclusive)

Month Reported	Quantity of Water Obtained from all sources	Quantity of Sewage Waste Discharged
January	3,489,564 Lts	3489.5 m <sup>3</sup>
February	3,478,713 Lts	3478.7 m <sup>3</sup>
March	3,472,478 Lts	3472.4 m <sup>3</sup>
April	3,370,933 Lts	3370.9 m <sup>3</sup>
May	3,629,109 Lts	3629.1 m <sup>3</sup>
June	3,608,723 Lts	3608.7 m <sup>3</sup>
July	3,493,324 Lts	3493.3 m <sup>3</sup>
August	3,648,553 Lts	3648.5 m <sup>3</sup>
September	3,726,004 Lts	3726.0 m <sup>3</sup>
October	3,577,039 Lts	3577.0 m <sup>3</sup>
November	3,706,070 Lts	3706.0 m <sup>3</sup>
December	3,621,777 Lts	3621.7 m <sup>3</sup>
ANNUAL TOTAL	42,822,288 Lts	42,822.2 m <sup>3</sup>

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Please indicate volumes in cubic metres - 1 cubic meter equals 1000 litres

- 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;

Cells were dewatered in Sept. 2008 + Nov 2008, No samples taken due to sewage seeping into the ground at the bottom of cell 3. 10 Day retention time not met. Outer berm of cell 3 raised 2 feet to prevent cell collapse. Thermosisters installed in new lagoon.

- v. a list of unauthorized discharges and summary of follow-up action taken;

ICE Removed from Cell 1 and 2 from Jan. 2008 to May 2008 to increase capacity.

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

Cell 3 berm was fixed as per instructions from INAC Annual report.

- 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;

thermosisters installed in new lagoon to test level of permafrost. Fall of 2008

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



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- U.I.L. -

- ix. updates or revisions to the approved Operation and Maintenance Plans.

Testing snow clearing time line on new  
Seurce Lagoon road. Director attended annual  
water & waste water conference on new operations.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

New road to P Lake still a concern  
with the safety end of it. Clearing  
snow - 2008/2009 season on new  
road to estimate time and cost of  
snow clearing

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Old Lagoon will have to stay in  
comission in the event of a blizzard and  
the time it will take to clear the new  
road to P-Lake.

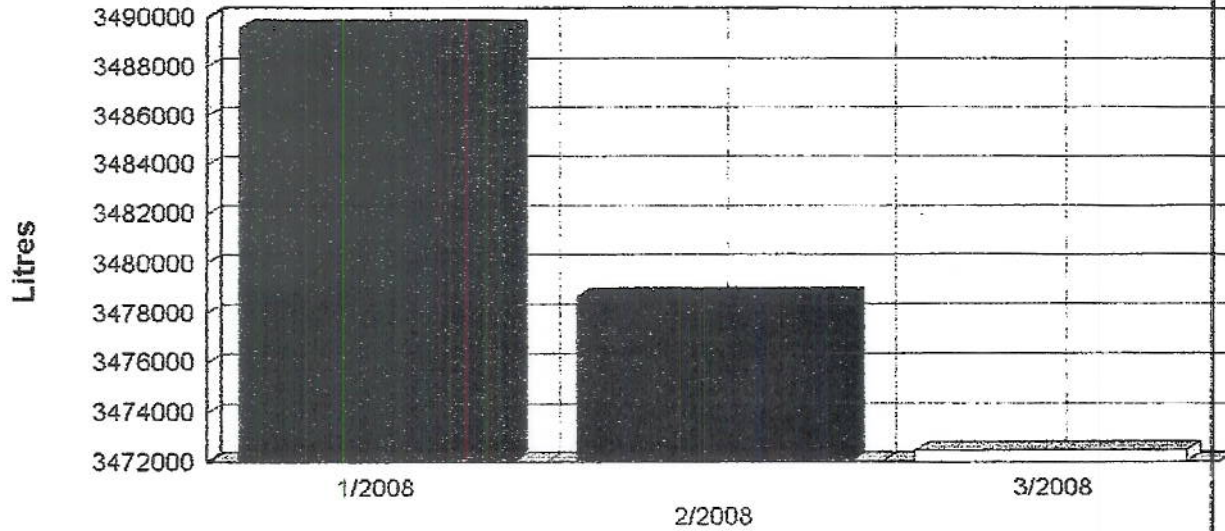
# YTD Water Consumption

## Municipality of Cape Dorset

For the Date Range: From: Jan-01-2008 To: Mar-31-2008

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### YTD Water Consumption - Details

<u>Date</u>	<u>Quantity</u>
January	3,489,564
February	3,478,713
March	3,472,478
Grand Total	10,440,755.80

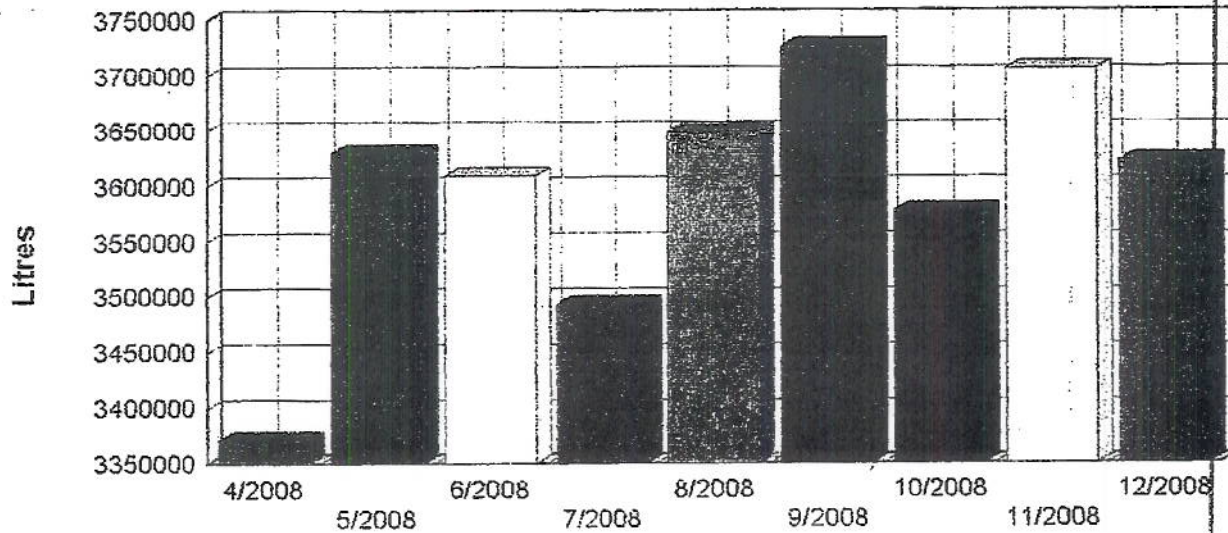
# YTD Water Consumption

## Municipality of Cape Dorset

For the Date Range: From: Jan-01-2008 To: Dec-31-2008

Printed On: Jan 07 2009 At: 02:00:00 PM

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### YTD Water Consumption - Details

Date	Quantity
April	3,370,933
May	3,629,109
June	3,608,723
July	3,493,324
August	3,648,553
September	3,726,004
October	3,577,039
November	3,706,070
December	3,621,000
Grand Total	32,381,533.19



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## ANNUAL REPORT FOR THE MUNICIPALITY OF CAPE DORSET

YEAR BEING REPORTED: 2009

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License 3BM-CAP0810 issued to the Municipality of Cape Dorset.

- 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	3,847,813 LTS	Same
February 2009	3,363,309 LTS	Same
March 2009	3,898,399 LTS	Same
April 2009	3,683,553 LTS	Same
May 2009	3,610,014 LTS	Same
June 2009	3,978,430 LTS	Same
July 2009	4,043,910 LTS	Same
August 2009	3,990,196 LTS	Same
September 2009	3,974,976 LTS	Same
October 2009	3,729,020 LTS	Same
November 2009		Same
December 2009		Same
ANNUAL TOTAL	38,119,620 LTS	Same

Total in Cubic Metres = 38,119.00



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- 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;  
No work has been carried out on water supply system.  
Berms have been reinforced to operate and maintain the existing three cells Sewage lagoons until the new facility is commissioned.
- v. a list of unauthorized discharges and summary of follow-up action taken;  
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;  
Design for decommissioning of the existing sewage lagoons will be taken care once the new facility is commissioned. Capital planning has been requested for funding for design for decommissioning of these existing three cells lagoons.
- 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;  
1. Wastewater Treatment Facility:  
Existing Lagoons: These are considered to maintain as emergency measures for some time.  
2. Wastes Management Facility: Hamlet Consultant is working on the design of the waste management facility.  
3. Water Supply System: Unchanged.
- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and  
1. Install four thermistors minimum 20m deep and monitor them.  
2. Berms inspection Report by Geotechnical Engineer

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## ANNUAL REPORT FOR THE MUNICIPALITY OF CAPE DORSET

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- ix. updates or revisions to the approved Operation and Maintenance Plans.

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O & M plan for Wastewater management facilities have been updated. The final document is attached.

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

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1. The missing beads of the thermistors have been corrected.
  2. The data loggers readings are attached.
  3. Hamlet has arranged an accredited laboratory for testing sewage effluent quality.
  4. The consultant will complete study and design of the waste management facility in 2010
  5. Explanation of thermistors depth is attached.
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### **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

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The Community is planning to bring all the Environmental facilities under Water License Compliances latest in 2012.

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