

WATER USE INSPECTION REPORT FORM

Date: September 11,2011	Licensee Rep. (Name/Title): Olyuk Akesuk, Senior Administrative Officer
Licensee: Municipality of Cape Dorset	Licence No.: 3BM-CAP0810 (Expired)

WATER SUPPLY

Source(s): T-Lake to Water Point holding tank	Quantity used: 34,763,678.3 L
Owner:/Operator: Municipality of Cape Dorset	

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

Intake Facilities: A	Storage Structure: A	Treatment Systems: A	Chemical Storage: A
Flow Meas. Device: A	Conveyance Lines: A	Pumping Stations: A	Screen : NA

Comments: Water is pumped from T-Lake to Water Point holding tank. Raw water is chlorinated while transferring to the delivery trucks in the community. The pumping station was found in good order. Chlorination records from testing were not available for review during the inspection. Samples were collected from T-Lake.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Primary (3 tier lagoon system)

Natural Water Body: No	Continuous Discharge (land or water): None		
Seasonal Discharge: as required	Wetlands Treatment: None	Trench: None	

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

Discharge Quality: U	Decant Structure: NI	Erosion: A
Discharge Meas. Device: NA	Dyke Inspection: A	Seepages: U
Dams, Dykes: A	Freeboard: A	Spills: None
Construction: NI	O&M Plan: U	A&R Plan: U
Discharge: seepages	Effluent Discharge Rate: Unknown	

Comments: At the time of the Inspection the 2007 Lagoon constructed in the saddle of Kingait Mountain above the community was still not in use. Contractors (hired by CG&S-GN) had recently been to the site to complete leak testing on the facility. A red dye had been mixed into the standing water within the facility and then monitored over a number of days to determine if water from inside the lagoon was exiting under the berm wall. During the inspection it was noted that a rapid flow of dyed water was exiting the from under the wall of the berm and had mixed with the adjacent lake water turning it red as well.

The cover for the main vault was opened and 2 feet of water was noted inside the vault. During the inspection of the facility the covers for the thermisters piles were also opened and it was noted that there were no data loggers attached to the thermisters.

The three tier lagoon system was found in better condition than in past inspections. Work to shore up the third cell of the system had recently been completed. The levels of effluent in the third cell were also well below what has historically been noted in the cell. It is unclear if there had been a decanting of the cell or if effluent had been ex-filtrating at a higher rate than seen in previous inspections. Hamlet staff did not indicate that the cell had been decanted recently but that work had been done to ensure the cell did not lose integrity. Cell three also had the same ring of black residue at the level of the effluent along the whole inside circumference of the cell. This was not present in cells one or two.

The emergency lagoon (old lagoon) was found to have very little water within the walls of the cell. Plans to mitigate the sludge and restore the site (A&R Plan) have still not been submitted by the licensee as required.

Solid Waste: Municipal Burn and bury, bulk metal wastes, Haz Mat storage

Owner/Operator: Municipality of Cape Dorset

Landfill: Metal (bulk waste) A	Burn & Landfill: U	Other: Haz mat area A.
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Comments: Cape Dorset continues to work on the metals sorting program at the waste metals area. The two sea-cans that were placed on site and contain paints and old batteries for crating and shipment off site are being filled.

Batteries however had been placed in open top 45 gallon drums outside the sea-cans. Some of these batteries were observed to be broken or cracked. The drums are now half full of water that has mixed with the acid from the broken batteries. This is a very dangerous situation as members of the general public have unrestricted access to the drums and the whole site. The Hamlet has been directed to neutralize these drums and to properly crate these batteries for shipment off site.

The berms that was constructed in 2008 to contain and control run off from the bulk waste management area has developed a wash out in one area. The Hamlet was directed to repair this as soon as possible.

The Municipal Waste Management (Burn and bury) area for municipal wastes requires appropriate fencing

