

## **Department of Economic Development and Transportation Resolute Bay Airport Sewage Treatment Facilities**

Plan for finalizing requirements of Water License No.NWB3YRB0308 Renewal

During the summer season of 2009 the Department of Economic Development and Transportation will undertake the following:

1. Remove the tires, old barrels, and other debris from the toe of the solid waste site (see Fig. 1) and deposit them back in the main dumping area



Fig. 1. Showing tires and drums, etc, at the toe of the solid waste site

2. Erect signs at the entrance to the sewage lagoon access road stating: "Danger: Raw Sewage"
3. Establish Monitoring Station Number YRB-3 at the Final Discharge Point and locate with GPS coordinates and physical marker
4. Establish Monitoring Station Number YRB-2 (at the truck discharge point) and locate with GPS coordinates and physical marker
5. Include these GPS coordinates in the revised O&M Manual for the Sewage Treatment Facility
6. Take a series of effluent samples from YRB-2 and YRB-3 and have them analysed for the following parameters:
  - Faecal Coliforms
  - BOD<sub>5</sub>
  - Total Suspended Solids
  - pH
  - Ammonia Nitrogen

7. Determine the volume of sewage deposited into the lagoon at Monitoring Program Station Number YRB-2 during the past fiscal year
8. Begin a slow decant of the lower cell of the lagoon as soon as the weather is sufficiently warm to permit vegetation growth (see O&M Manual). Assuming a two-month decant period, this decant will proceed at a rate of approximately 40 L/minute, or 2,500 litres per day using a trash pump and a hose that is sufficiently long to reach grade at the toe of the solid waste site in order to avoid effluent leaching through the mound of solid waste.
9. Provide the Nunavut Water Board with a Report in which the information in numbers 4, 5, and 7 above is presented