

**OPERATION AND MAINTENANCE PLAN FOR THE HARRISON SUBRESIDENCY
LANDFILL AND PETROLEUM SPILL AREA**

November 2008

Quarterly (DOT):

1. Inspect monitoring wells.
2. Landfill cap (including cap vegetation) inspection.
3. Inspect landfill gas vents.

Semi-annual (DOT)

4. Inspect perimeter fence, gates, and signs.

Every 5 Quarters (Consultant)

5. Measure water level from monitoring wells.

Landfill Area Only:

6. Vector and vermin inspection.
7. Perimeter drainage swales.
8. Gas monitoring at gas vents and property line perimeter.
9. Sample ground- and surface- water for field parameters: Temperature, turbidity, DO, pH, and specific conductivity. In addition, sample groundwater only for: Eh (field parameter). (*See Note 1 below*).
10. Sample all the media for TCL VOCs, SVOCs, TAL-Metals (including cyanide and chloride). (*See Note 2, Note 3, and Note 4 below*).

Petroleum Spill Area Only:

11. Sample groundwater for field parameters: Temperature, turbidity, DO, pH, and specific conductivity, and Eh. (*See Note 1 below*).
12. Sample groundwater for BTEX, MTBE, and natural attenuation parameters: Iron (dissolved; Fe-II), Manganese (dissolved; Mn-II), Bicarbonate Alkalinity (reported as HCO₃), Alkalinity (Total), Nitrate (NO₃), and Sulfate (SO₄). Parameters can be modified based on discussions with DEC.

Other (DOT):

13. Twice a year during the growing season (e.g., End of June, Mid September): mow cap grass to a height of no lower than 15 cm.
14. After major rainfall events (5-year storms): inspect cap and drainage swales.

- ***Well purge water can be discharged immediately downgradient from the well.***

Note 1: A flow cell meter must be used to measure all field parameters.

Note 2: *Groundwater:* filter samples for TAL-Metal analyses. *Surface Water:* unfiltered samples; filter samples for TAL-Metal analyses if ***samples have been significantly disturbed*** (e.g., the consultant dug a hole to collect a sample and water turbidity resulted from digging the hole; no unfiltered “disturbed” samples are to be collected for TAL-Metal analyses).

Note 3: Testing for pesticides and PCBs has been suspended after October 2005, because we have no evidence of any disposal of these contaminants at the site, and levels of these contaminants have not been detected or not significantly detected at site monitoring points.

Note 4: If field duplicate samples are collected, they will be performed on water samples only (not on sediment samples), since water samples are expected to be more homogeneous.