

OPERATION & MAINTENANCE PLAN FOR THE HARRISON SUBRESIDENCY LANDFILL & PETROLEUM SPILL AREA

February 2007

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. All of the above (DOT does not perform the 5-Quarter inspection)
6. Measure water level from monitoring wells

Landfill Area Only:

7. Vector and vermin inspection
8. Perimeter drainage swales
9. Gas monitoring at gas vents and property line perimeter
10. Sample all the media (*See Note 1 and Note 2 below*) for TCL VOCs, SVOCs, TAL (including cyanide and chloride). Ground- & surface- water: Temperature, turbidity, pH, and specific conductivity

Note 1: *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)

Petroleum Spill Area Only:

11. Sample groundwater (1st round only) for DEC-STARs Parameters (Table-1; STARs-Guidance), Cl, Na, specific conductivity, and natural attenuation parameters: DO, pH, NO₃, SO₄, T, TOC, CO₂
(Although this guidance is for soil media, Table-1 is an adequate comprehensive VOC list for petroleum compounds in groundwater)
12. Subsequent rounds: Sample groundwater for BTEX, MTBE, and natural attenuation parameters. Parameters can be modified based on discussions with NYSDEC

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 2: 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.