

HARRISON SUB-RESIDENCY FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 04/24/15

Semi-Annual

Inspect monitoring wells

*check concrete collars, protective casings, caps and locks for damage

Findings:

All wells were inspected and found to be in good condition.

Inspect landfill cap (including cap vegetation)

*check for signs of erosion (rills, channels, ponding)

*check for signs of vector and vermin damage (holes/tunnels)

*check for the presence of woody vegetation (small trees) - remove any that are found

Findings:

Grass height was satisfactory at the time of inspection (Photo #10).

The soil slump on west slope of landfill was repaired in May 2009 by NYSDOT Residency 8-9 personnel. The repaired area is overgrown with invasive vegetation (Photos #13 & 14) and should be weed-wacked during the next mowing event in Summer 2015.

A small area of orange staining and sheen on water was noted near the stream in the vicinity of LMW-4. Iron reducing bacteria are believed to cause this periodic staining (Photo # 15).

Inspect gas vents

*check for physical damage (cracks)

*check for soil cracking adjacent to the vents - use additional soil to seal the full depth of the crack

*check for blockages inside the vents - clear vent with a non-metallic probe (snake)

*check for movement of the gas vent riser - repair (by Contractor) any geomembrane damage in the vicinity of the gas vent

Findings:

Four vents (V-1 to V-4) were inspected (Photos # 1-4). V-1 was found to have an eraser-sized hole on the side near the top of the vent. V-2 had a quarter-sized hole near the top of the vent. Damage is thought to have been caused by woodpeckers due to evidence of “peck marks” in the vicinity of the holes. V-3 and V-4 and generally found in good condition (neither cracks nor movement was observed). V-2 leans slightly to the north.

Inspect perimeter fence, gates, and signs

*check for damage - restore damaged fencing and illegible signs

Findings:

The south fence near the landfill gate appears to be in fair condition. (Photo #12)

Twice a year during growing season (end of June to Mid-September)

Mow cap grass to a height of no lower than 15 cm

Findings:

The grass appeared to be at a satisfactory height. The cap should be mowed every June and September.

Comments/Follow-up Work Required

Carryover from last inspection

1. Old/tall vegetation in the area of the west slope repair should be removed during the next cap mowing.
2. Repair small holes in V-1 and V-2. Holes will be permanently patched by NYSDOT Maintenance by the end of June 2015.

Additional Comments

1. The well keys are in the office desk. The main gate to the facility is currently locked by on-site personnel at the end of the day. The gate to the landfill is kept closed and locked.
2. Trim trails leading to the wells in the wetland area during the next mowing event as needed.



Photo 1: Vent V-1 (eraser-sized hole)



Photo 2: Vent V-2 (quarter-sized hole near top)



Photo 3: Vent V-3



Photo 4: Vent V-4



Photo 5: Well LMW-2



Photo 6: Well LMW-4 (could not check due to high water)



Photo 7: Well PC-1



Photo 8: Well PC-2



Photo 9: Well MW-11



Photo 10: Grass on landfill cap



Photo 11: Stream inlet



Photo 12: South fence (looking east)



Photo 13: West slope erosion area repair (looking south)



Photo 14: West slope erosion area repair (looking north)



Photo 15: Orange staining and sheen from iron bacteria near stream around LMW-4.