

## HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

**Name of Inspector(s):** Christopher Kappeller

**Date:** 4/21/15

### 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). Some channels were created by vehicle tires used to deliver equipment used to cut vegetation on and surrounding the landfill cap (see Photos 14-15). These channels (approx. 6" deep) need to be filled with topsoil and re-seeded.

The soil slump on west slope of landfill was repaired in May 2009 by NYSDOT Maintenance Residency 8-9 personnel. The repaired area was trimmed down in April 2016 (Photo 13) and should be weed-wacked during the next mowing event in June 2016.

### 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 and V-2 had their plastic casing holes repaired with fiberglass epoxy in August 2015 and were still in good condition. V-3 and V-4 were 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 appeared to be in fair condition. (Photo 12)

#### Semi-annual mowing

\*check grass height - mow cap grass to a height of no lower than 15 cm twice a year during the growing season.

#### Findings:

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

#### Comments/Follow-up Work Required

1. The Town of Harrison needs to re-seed the bare areas in front of the facility building where grass failed to establish during the Fall season, and repair the toppled silt fence behind it. These areas were initially disturbed during stormwater drainage work performed by the Town. Once grass becomes established, the silt fence should be removed.
2. NYSDOT Maintenance Residency 8-9 needs to repair the ruts caused by vehicles delivering equipment used to cut vegetation on and surrounding the landfill cap.
3. On February 19, 2015, the Town of Harrison accepted the terms of a variance granted by the New York City Department of Environmental Protection (NYCDEP) permitting the siting of a solid waste management facility (leaf transfer operation) within 100 feet of the Kensico Reservoir and a reservoir stem. In a letter dated February 22, 2016, from NYCDEP to the Town of Harrison, NYCDEP determined that the *Notice of Violation* served by NYCDEP to the Town on October 13, 2013, has been satisfactorily resolved. This was based on the variance mitigation measures installed by the Town, including improvements made to the site's stormwater drainage system.
4. 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.



Photo 1: Vent V-1 (hole repair shown)



Photo 2: Vent V-2 (repair patch shown)





Photo 3: Vent V-3



Photo 4: Vent V-4





Photo 5: Well LMW-2



Photo 6: Well LMW-4 area (area is overgrown)





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: A portion of the west slope erosion area repair that was cleared



Photo 14: Ruts caused by vehicles carrying equipment





Photo 15: Ruts caused by vehicles carrying equipment



Photo 16: Bare areas and collapsed silt fence in front of the facility





Photo 17: Bare areas and collapsed silt fence in front of the facility