

## HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

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

**Date:** 4/27/17

### 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. Paths to these wells need to be weed-wacked before the next inspection in October.

### 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 somewhat tall (8'+) at the time of inspection (Photo 10). Grass should be cut in June and September.

The soil slump on west slope of landfill was repaired in May 2009 by NYSDOT Maintenance Residency 8-9 personnel. The repaired area should be weed-wacked during the next mowing event in June 2017 (see Photos 13 and 14).

### 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. The lock and chain were apparently lost when the Town of Harrison personnel accessed the landfill to insect

culvert drainage. A new key and chain will be put in place soon if the original is not located.

Porcelain Berry vines were overgrown on the fence in this area during the past inspection in October 2017 (Photo 12). This is a very invasive plant. Herbicide should be applied on the vegetation in May/June before fruit begins to form. Another application may be needed in July if there is any re-growth.

#### 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 in need of mowing. The cap should be mowed every June and September.

#### Comments/Follow-up Work Required

1. Obtain lock and chain to secure the gate at the landfill entrance. The main gate to the facility is locked at the end of the day by Town of Harrison personnel.
2. 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 location 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 storm water drainage system.
3. Weed-wack the repaired area on the western landfill slope and paths leading to the area's monitoring wells
4. Use herbicide to remove invasive plants on the south fence.
5. 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 was covered in 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: A portion of the west slope erosion area repair that needs to be cleared (looking north)



Photo 14: West slope area repair (looking south)



Photo 15: Presumed orange iron bacteria and iridescent biofilm sheen on water (near LMW-4)



Photo 16: Vegetation establishing in area west of site building at edge of asphalt