

HARRISON SUB-RESIDENCY FIELD INSPECTION

Name of Inspector: Chris Kappeller

Date: 2/27/09

Every Quarter

Inspect monitoring wells

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

Findings:

All wells inspected and found to be in good condition (Photos # 5-13). New locks were placed on wells LMW-2, LMW-4, and PC-2 since the last inspection.

Several monitoring wells onsite were decommissioned in May and June of 2008 due to low or non-detect petroleum related compounds in water samples obtained from each during the course of the groundwater monitoring program that is still in progress. NYSDEC approved the decommissioning of these wells. The remaining wells left active in the petroleum remediated area for periodic sampling include MW-1, MW-11, GP-1, GP-2 and PC-1.

Wells MW-12 and MW-13 were installed from 6/24 – 6/25/08. Approximate locations of these wells are plotted on the attached overview map. GPS data was obtained from both well locations and will be plotted on the site overview map for the May 2009 inspection report.

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 on the entire landfill cover was mowed since the last visit (Photo #14).

The soil slump on west slope of landfill (Photo #18) still needs to be repaired.

The dangling barbed wire off of the east side of the landfill boundary fence (just south of the stream) was clipped and tucked in during the inspection to reduce the potential for bodily injury near that area (Photo# 19).

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 (V1 – V4) were inspected and found in good condition (visually unblocked, neither cracks nor movement were observed) (Photos # 1-4). V-2 shows a slight lean to north.

Semi-Annual

Inspect perimeter fence, gates, and signs

*check for damage - restore damaged fencing and illegible signs

Findings:

The north fence (towards the east) has a section of its top rail bent and dislodged by a fallen branch (Photo #20) and at the midpoint of the north fence by a fallen tree (Photo #16).

The large gap between the bottom of the fence and the stream surface was narrowed using additional fence material and rock to prevent burrowing animals from entering the landfill area (Photo #15).

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:

Entire grass cover of the landfill was mowed.

Comments/Follow-up Work Required

Carryover from last inspection

1. The northern fence needs to be repaired at the NE section and near the midpoint of the north fence length. Any tree limbs resting on the fence in these areas need to be removed. This should be done by the NYSDOT 8-9 Residency in Valhalla.
2. The soil slump area on the west side of the landfill needs some stone, top soil, and a vegetated mat to prevent any further erosion. Work repair specifications were prepared by NYSDOT Geotechnical Services. Repair work will be done by NYSDOT Residency 8-9 in Valhalla. An on-site preconstruction meeting was held on December 16, 2008.
3. The well risers surrounding the land fill area and gas vents within the area were marked with their ID using a paint marker for easier identification. Pathways to well locations are hand cut/weed wacked for easier access and will continue to be kept clear during quarterly visits.
4. The door to the gate on the south side of the landfill should be equipped with a lock. A key should be given to on-site personnel and a spare should be kept in the Valhalla residency. The main gate to the facility is currently locked by on-site personnel at the end of the day.
5. A spare copy of the well key set (orange tagged key ring labeled with the well keys) is located on-site in the top left drawer of the front office desk.

Additional Comments

1. The dangling barbed wire off of east side of the landfill boundary fence (just south of the stream) was clipped and tucked in for safety..
2. The faded well labels were repainted and are now more visible.

3. GPS information was obtained from MW-12 and MW-13 and will be used to position the wells on an updated site map..
4. An onsite meeting for the planned landfill slope repair work was held on December 16, 12008. The residency has purchased the materials to repair the slope and plans to perform the repairs the week of March 30, barring any extremely wet weather.



Photo 1: Vent V-1



Photo 2: Vent V-2



Photo 3: Vent V-3



Photo 4: Vent V-4



Photo 5: Well LMW-2



Photo 6: Well LMW-4



Photo 7: Well PC-1



Photo 8: Well PC-2



Photo 9: Well MW-11



Photo 10: Well MW-12



Photo 11: Well MW-13



Photo 12: Well GP-1



Photo 13: Well GP-2



Photo 14: Grass on landfill cap



Photo 15: Stream inlet



Photo 16: Fallen tree on north fence



Photo 17: South fence (looking east)



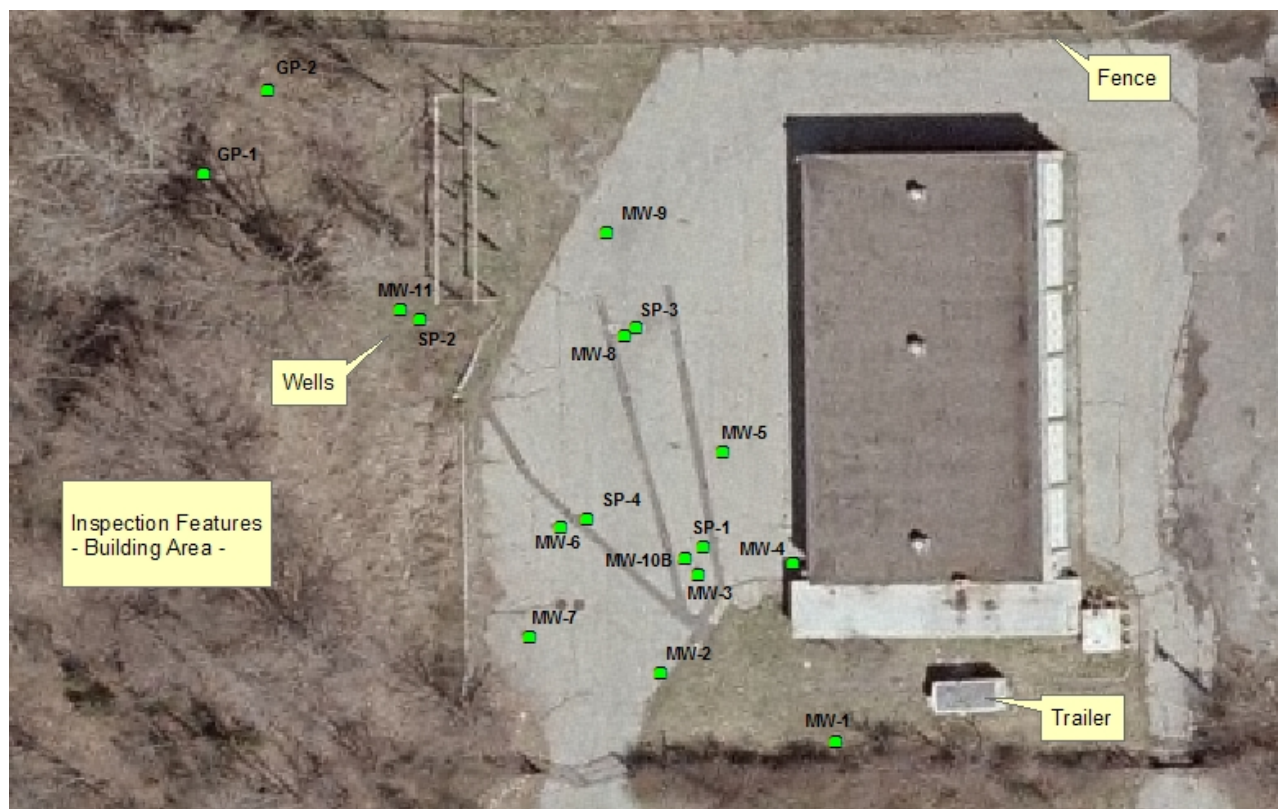
Photo 18: West slope erosion area



Photo 19: East fence near stream inlet (hanging barb wire fixed)



Photo 20: North fence (towards the east) top rail damage



Petroleum Spill Area Inspection Features



Landfill Inspection Features



New Well Located Near Proposed Locations