HARRISON SUB-RESIDENCY FIELD INSPECTION

Name of Inspector: Chris Kappeller
Date: 2/29/08

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 (See Pictures # 5-12). The PVC riser of well PC-1 (Picture #8) should be cut about 4" so that the steel cap can fit back onto the external steel protective casing. This can be done during the next site inspection by NYSDOT in a couple of months (or sooner if DOT is in the area with the equipment needed). The length of PVC casing cut would be recorded and the measurement given to HDR/LMS so they may use it to update the "top of casing" elevation for their site file.

Wells MW-11 and LMW-2 steel lids were locked and the inside of the steel casing and PVC riser could not be observed.

Several monitoring wells, within the asphalt area in front of the facility building have lid bolts missing and/or have deteriorated pads. Due to the fact that the spill number associated with the petroleum release has been closed by the NYSDEC, it should be discussed with DEC the possibility of appropriate decommissioning of some of these wells by the building area that are not necessary for continued groundwater monitoring. As stated by the NYSDEC, "The ongoing monitoring program will serve to document the status of the residual contamination" and some of the area wells will still be needed for this. Decommissioning unnecessary wells will reduce the risk of any vehicle leaks that may occur at the surface from reaching groundwater where the well is located. Work can possibly be completed using NYSDOT personnel or be performed through HDR/LMS..

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:-

1. Vegetation is short and snow covered (See Pictures #1-4)
2. Soil slump on west slope of landfill (See Pictures #15-17)

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 OK (visually unblocked, neither cracks nor movement were observed). V-2 shows a slight lean to north (See Pictures # 1-4).

Semi-Annual

Inspect perimeter fence, gates, and signs

*check for damage - restore damaged fencing and illegible signs

Findings:-

Fence has a section of its top rail bent and dislodged on the N/E side by a fallen branch and midway of the north fence by a fallen tree (See Picture #13 and #14 attached).

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:

Grass was mowed in September 2007.

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. This should be done by HDR/LMS or their contractor.

2. Soil slump area on the west side of the landfill will need some stone, top soil and a vegetated mat to prevent any further erosion. Some potential work specifications were prepared by NYSDOT Regional Office and Environmental Science Bureau. This may be repaired in-house by Region 8's Geotechnical Group and Highway Maintenance. If not, then the contractor hired by HDR/LMS will be asked to do this.

3. The fence on the southeast side was repaired by NYSDOT and Town of Harrison in mid 2007. The concrete blocks were moved away from the fence and no longer place pressure on it (Picture #19).

4. 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 still for easier access and will continue to be kept clear during quarterly visits.

New Comments

1. Door to the gate on the south side of the landfill should be equipped with a lock where a key should be given to personnel at the facility and a spare should be kept in the Valhalla residency. The front gates to the facility are currently locked by on-site personnel at the end of the day.

2. Locks existing on the steel well casing caps should be changed if keys are not readily available. New locks should be keyed alike and a key copy should be kept in the facility office and a spare should be given to the Valhalla as a backup. HDR/LMS will be contacted first to see if they have spare keys available for the well locks.


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:
PC-1 with casing cap off. PVC riser above steel casing. Steel cap can not be locked.


Photo 9:
Well PC-2
PC-2


Photo #10:
Well MW-11

Photo #11:
Well GP-1

Photo #12:
Well GP-2

Photo #13: Tree limb fell onto north fence (near mid point of fence length). Limb removal and fence repair needed.

Photo #14:
Tree damage to fence near northeast corner of landfill. Repair needed.

Photo #15:
West slope erosion area (looking north)

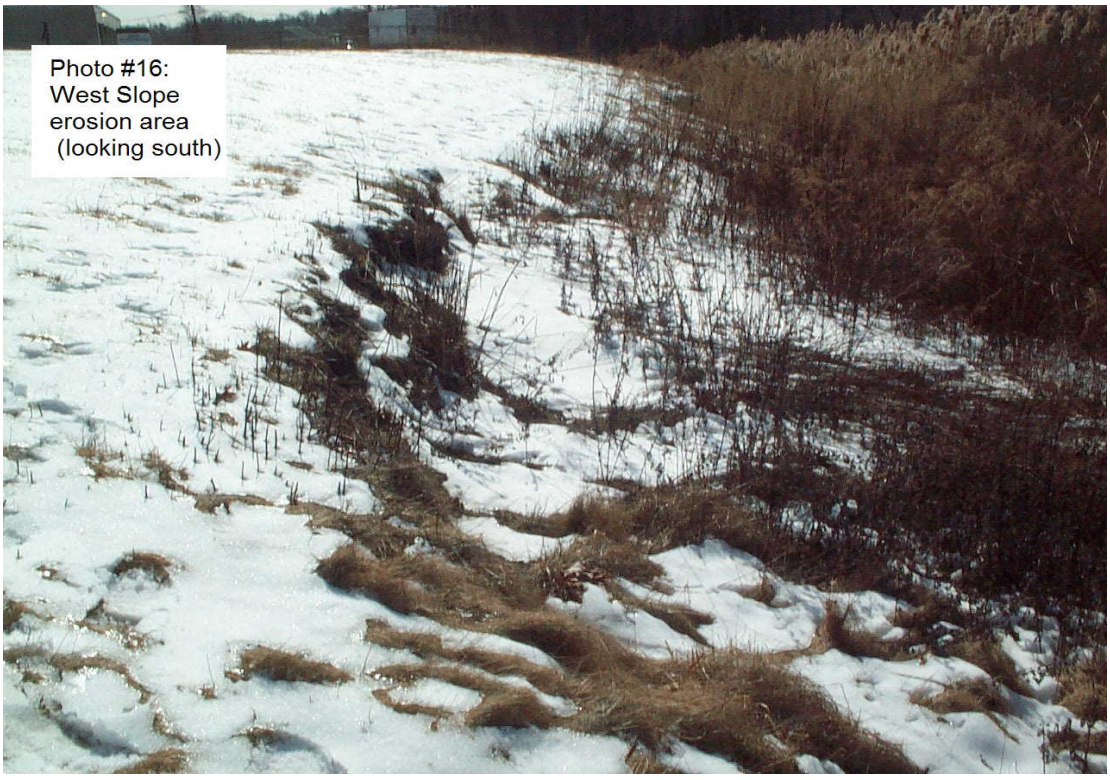
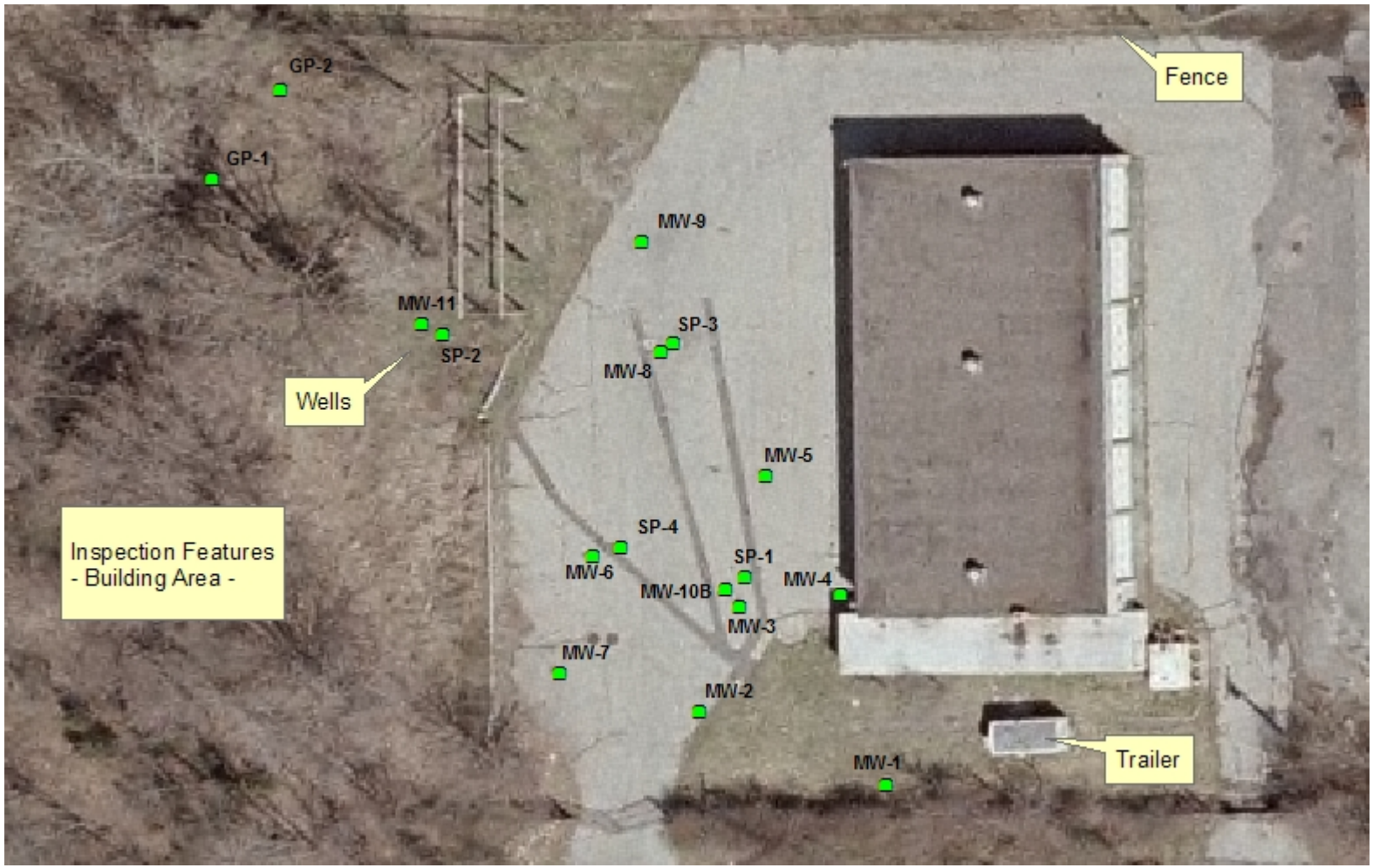


Photo #16:
West Slope erosion area (looking south)

Photo #17:
West Slope erosion area (looking southeast)

Photo #18:
Gap under fence near stream at northeast fence corner


Photo #19:
South fence
(looking east)



Petroleum Spill Area Inspection Features

Landfill Inspection Features