

**Annual Landfill Inspection Report
for
Area A Landfill**

**Naval Submarine Base
New London
Groton, Connecticut**



**Engineering Field Activity, Northeast
Naval Facilities Engineering Command
Contract Number N62472-02-D-0810
Contract Task Order 0002**

October 2005

ANNUAL LANDFILL INSPECTION REPORT
for
AREA A LANDFILL

NAVAL SUBMARINE BASE – NEW LONDON
GROTON, CONNECTICUT

ENVIRONMENTAL OPERATION AND
MAINTENANCE CONTRACT

Contract No. N62472-02-D-0810
Contract Task Order 0002

Submitted to:

Engineering Field Activity, Northeast
Environmental Branch, Code 18
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
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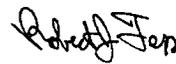
October 2005

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PURPOSE

The purpose of the annual landfill inspection is to evaluate the cap system and ensure that it and the associated features are functioning as designed; that is, to minimize the risk for human or environmental impacts associated with the landfilled materials beneath the cap. Features integral to the effectiveness of the Area A Landfill cap system include institutional controls, cap areas, storm water controls, gas vents, and groundwater monitoring wells. The following report presents the findings and observations from annual inspection activities, identifies deficiencies of potential impact to the functional effectiveness of the cap system features/controls and provides recommendations of corrective measures to address the deficient items.

BACKGROUND

Before the Area A Landfill was opened, dredge spoil from the Thames River was deposited continuously along a major portion of the hillside and within the former valley, which is currently the Area A Wetland. The Area A Landfill reportedly opened sometime before 1957. However, a 1957 aerial photograph (USEPA 1957) shows no apparent landfill activities, indicating a somewhat later start-up date. After the NSB-NLON incinerator closed in 1963, most of the wastes generated by submarine and base operations were disposed of in the landfill, including all non-salvageable materials.

The area fill method was reportedly used in landfill operations at the Area A Landfill. The area fill method consists of filling an area in a sequence of cells and lifts. Each lift is a specified thickness and consists of several cells. Each cell can be viewed as a rectangular area that is filled from back to front. The front area is the "working face" and is the location where new refuse is placed and covered on a daily basis. The cover material used on the landfill was gravel obtained from the Groton water supply reservoir. The Area A Landfill closed in 1973.

After closure, a bituminous concrete pad approximately 160 x 100 feet in size was constructed in the southwest portion of the landfill for above-ground storage of industrial wastes. Steel drums, transformers, and electrical switches were stored on this pad until the time of the RA. All of these materials, were at that point, properly disposed of off-site

A two phase Remedial Investigation (RI) was conducted to determine the nature and extent of the contamination (Atlantic 1992 and B&R Environmental 1997). A site-specific Area A Landfill Focused Feasibility Study (FFS) (Atlantic 1995a), and a Proposed Remedial Action Plan (PRAP),

(Atlantic 1995b) were also prepared. A Record of Decision (ROD) was signed by the Navy and United States Environmental Protection Agency (USEPA) Region I on September 26, 1995 (Navy 1995). The selected remedy consisted of the following major components:

- Restricting access to the contaminated areas of the site using perimeter fencing and institutional controls.
- Capping the site with a low-permeability multi-layer cover system to prevent water infiltration into the landfill.
- Constructing an interception system to collect shallow groundwater and storm water and re-route these around the landfill.
- Establishing landfill gas controls to manage landfill gas migration.
- Developing a groundwater monitoring plan to monitor the quality of groundwater after the landfill closure is completed.

Construction of the landfill cover system (including gas control and storm water and shallow groundwater interception systems) was completed as part of an RA in September 1997 by Foster Wheeler Environmental Corporation. Prior to commencement of construction, a large quantity of metal, concrete, wood debris, several thousand sandbags, the Deployed Parking lot, the electrical storage building (Building 496), the Master at Arms Building (Building 373), salt storage shed, and various other items that had been located on the surface of the landfill were removed or relocated. The majority of the surficial debris was disposed of off-site as scrap metal or at an off-site landfill. The debris that was salvageable by NSB-NLON was removed and relocated to other areas of NSB-NLON.

The preparation of the subgrade cover required excavation from the northern slope of the landfill and placement of the excavated material on the southern slope. Also, approximately 4,000 cubic yards of soil from the Rubble Fill Area at Bunker A 86 (Site 4) and 1,000 cubic yards of common fill were placed over the eastern portion of the landfill, beneath the area of the relocated Deployed Parking. The soils were then compacted. During the subgrade preparation activities, two storm water drainage structures located within the limits of the site were decommissioned. These structures consisted of open catch basins on the southern edge of the landfill that discharged into a reinforced concrete culvert running through the landfill and ultimately into the Area A Wetland. Both culverts were entirely filled with flowable concrete to eliminate potential voids in the subgrade due to pipe collapse. The catch basins were filled with materials unsuitable for

placement in the landfill subgrade (e.g., tires, large metal and wood debris, large concrete debris, etc.) followed by encapsulation with flowable concrete fill.

The public works at NSB-NLON has developed a plan for storing equipment and materials on the paved section of the completed landfill. Equipment such as trailer trucks, buses, and plows have already been relocated to the site.

INSPECTION ACTIVITIES

Site history and cap design were reviewed by the inspection contractor prior to inspection activities. The Operation and Maintenance (O&M) Manual for Installation Restoration Program Sites at Naval Submarine Base, New London – Volume III Area A (TtNUS, 2002) was used as reference to provide background for conducting the inspection at this facility.

The annual inspection was completed on 11 October 2005. Personnel conducting the inspection included Mr. Fred Santos (ECC), Mr. Courtney D. Moore, Jr. (Nobis Engineering, Inc.), and Mr. Greg Kemp (Gannet Fleming) who was representing United States Environmental Protection Agency (USEPA).

The inspection activities concluded that the land use for the site had remained unchanged and in general, the cap system and the associated features appeared to be functioning as designed. In general, it appears that some routine maintenance is required, which if left uncorrected, may eventually affect the integrity of the cap system. These corrective actions are not time critical and can be addressed along with operation and maintenance activities during 2006. A detailed discussion of landfill inspection findings are presented in the following sections. Attachments to this report include an annotated site map (Figure 1-1), the landfill inspection checklist (Appendix A) contained in the Landfill O&M Manual (TtNUS 2002) completed on 11 October 2005, a deficiencies log with corrective actions (Appendix B) completed 20 October 2005, and photographs of the deficiencies (Appendix C) taken on 11 October 2005.

INSTITUTIONAL CONTROLS

Institutional controls are means by which access to the site and the landfilled materials is restricted to reduce the associated risks of contact. Examples of institutional controls include land-use restrictions, physical barriers, and posted signage. Security fencing and gates are the primary institutional controls at the Area A Landfill.

Security Fencing & Gates

Security fencing extends along the southern perimeter of the site and around the deployed parking area to prevent unauthorized vehicular access. Several vehicle gates are used to control entry to the site. Inspected fencing components included vertical support posts, screen, upper tension wire, bottom rails, screen ties, tension bars, and corner post hardware. Gate components included hinge posts, hinges, and locking hardware.

In general, the chain-link fencing and gates were found to be in good condition and are in satisfactory working order. There is also some fencing located along the northwest perimeter of the site adjacent to Wahoo Avenue.

Note that the western portion of the cap is presently being used to stage equipment, storage containers, etc. (see Housekeeping and Maintenance section).

Signage

Sufficient signage was observed during the inspection.

LANDSCAPING FEATURES

Landscaping features typically do not have a primary role associated with the function of cap system. They may act as an institutional control (e.g., concrete pavers creating a physical barrier) or they may provide a secondary functional role (e.g., an irrigation system that maintains a healthy stand of grass and shrubs thereby stabilizing the soils and reducing infiltration).

Landscaping features at the Area A Landfill include grass vegetation on the adjacent southwest slope and on the south and southeast slope of the capped area leading to the lower surface water control/retention pools. The southwest vegetated area is comprised of grass, shrubs, and small trees. Landscaping features appeared to be in good condition on the day of the inspection and appear to be functioning as designed. There were no deficiencies were noted.

CAP AREAS

In general, a landfill cap is designed to, 1) act as a physical barrier to intrusion and minimize contact; and, 2) to minimize the infiltration of precipitation into the landfilled materials and the

generation of leachate containing potentially hazardous concentrations of chemical compounds that could migrate off site.

The primary cap component at the Area A Landfill is a geomembrane liner placed over a prepared subgrade. Secondary cap components include asphalt pavement, vegetated, or grassed areas (see Landscaping Features section), and the gabion retention system at the northeast perimeter of the landfill.

Asphalt Pavement

A visual inspection of the pavement was performed to evaluate the following items: general condition of the pavement; grade/drainage features; cracks or spauling; erosion at pavement/grass interface; settled areas; heaved areas; condition of adjacent sloped areas (i.e., grass slopes, gabion system); groundwater monitoring well penetrations; and, exposed cap components.

The asphalt pavement was found to be in fair condition with evidence of significant cracks. The cracks or separations are likely a result of thermal expansion and contraction and/or minor landfill settlement. Crack/separation thicknesses ranged from approximately 1/8-inch to 1/2-inch in width. Vegetation was observed to be growing in several of the cracks. No significant spauling of the pavement was evident; however, spauling will likely occur if the cracks are not sealed and repaired. The cracks also act as a conduit for water to infiltrate which will lead to additional damage of the pavement by freeze-thaw action. Damaged pavement was also observed in the areas where heavy equipment was stored without adequate protection for the asphalt cap. Bulges in the asphalt were observed in the Deployed Parking Area located in the eastern portion of the site.

The grade appeared to be relatively level and consistent and surface runoff was observed to flow to the swales as designed – no pooling or standing water was observed, however, debris and sediment was restricting drainage in the swales (see Maintenance and Operation section). The groundwater well road boxes were flush with the pavement surface and the pavement/box interfaces were in good condition. No exposed cap components were observed during the inspection.

Recommended corrective measures for the cap system include sealing the cracks in the asphalt pavement and increased housekeeping and maintenance measures (see Housekeeping and Maintenance). Crack sealing should be performed by an experienced asphalt repair contractor and, be completed in accordance with the State of Connecticut Highway Department specification

for sealing cracks in asphalt pavement. ECC will insure that the crack sealing procedure follow the appropriate CTDOT regulations which conform to Class 1 asphalt. It is recommended that a licensed Professional Engineer, knowledgeable in asphalt paving and repair, review the proposed repair method and material and oversee the repair by the contractor. Future inspections will evaluate the performance of the repair.

Note that there was not evidence of significant landfill settlement (i.e., vertical separation at monitoring well road boxes); therefore, the cracks are likely a result of horizontal thermal expansion and contraction. Since asphalt pavement mixes are designed to be flexible and resist thermal expansion/contraction forces, an inferior asphalt mix and/or placement method may be the root cause of the joint separation/failure.

Vegetated Areas

(Refer to the Landscaping Features section).

Stone and Gabion Retention System

A stone (riprap) and gabion retention system provides stability and cap termination at the northeast perimeter of the landfill. This system was designed to terminate the cap, minimize encroachment upon the adjacent wetland area (by vertical retention), and to stabilize the perimeter.

The stone and gabion system consists of riprap (4 to 12-inch crushed stone) and gabion baskets. The system was inspected to evaluate the integrity of gabion baskets and retaining wall, drainage, vertical and horizontal displacement, evidence of erosion, and evidence of cap exposure or damage. Overall, the system appeared to be in good condition.

Crane Test Pad

The crane test pad consists of a concrete slab-on-grade. The slab was inspected for evidence of cracking, spalling, and settlement. The slab appeared to be in good condition. However, some cracks in the asphalt surrounding the slab were observed and vegetation was observed growing through the cracks. These cracks should be sealed as specified in Asphalt Pavement section.

STORM WATER FEATURES

Drainage Channels

Five asphalt-lined drainage channels were visually inspected at the Area A Landfill to evaluate the overall integrity of the channel system including the asphalt lining (i.e., cracks, spalled sections, depressions, heaves, invasive vegetation, etc.), culverts and headwalls. The channels were also inspected to ensure that they were free of obstructions and debris such as sediment, sticks, trash.

No deficiencies associated with the integrity of the channel were noted during the visual inspection. Significant amounts of sediment were observed in the northwest portion of Channel A and Channel C. The likely source of the sediment for Channel A is the adjacent slope that is not entirely stabilized with vegetation (see Landscaping Features). Debris, including sticks and leaf litter were identified in the channels as well. It was evident that the sediment and debris are restricting the water flow through the channels, that is, pooling of water was observed in some locations along these channels. Pooling of water was significant at the outlet of Culvert 2 where Channel C is full of sediment and roots.

Vegetation was also observed growing in the sediment deposits in the channels. Fragmites were observed growing through the asphalt in Channel B. Additionally, vegetative intrusion in Channel B and D obscured the asphalt channels. If the obstructions and vegetation are not periodically removed and continue to accumulate/grow thereby restricting flow and creating pooling conditions, degradation of the asphalt lining (e.g., cracking, spalling, depression, etc.) and erosion at adjacent vegetated areas may occur.

Recommended corrective measures for the drainage channels include removal of all sediment, debris, and vegetation. Routine, periodic maintenance (i.e., quarterly) should also be implemented by base facility personnel to identify obstructions and remove them.

Gas Vents

Twenty-seven (27) gas vents are located within the Area A landfill. Gas vents allow pressure equalization between the gases (including methane, sulfur dioxide, and carbon dioxide) generated during aerobic decomposition of the landfilled materials beneath the impermeable cap and the atmosphere. The gas vents were inspected to evaluate the condition of the riser pipe, the riser protection (HDPE pipe), and the asphalt berm and concrete protective barriers located around the riser. Animal guano was noted on the plastic drum under GVR-16. No screens were

noted on any of the gas vents. Screens are recommended to be installed for every gas vent. Additionally near some gas vents cracks were noted in the asphalt with vegetation growing in the crack. Gas vent GVR-1 and GVR-11 need an additional jersey barrier for protection.

Groundwater Monitoring Wells

Fifty-three (53) groundwater monitoring wells are located within the vicinity of the Area A landfill. The surface area around many of the wells is in need of repair/maintenance. These items include broken concrete around well covers, sediment buildup on well covers, vegetation growing between the concrete-asphalt interface, missing well covers, and missing well cover bolts. It should also be noted that there were no bollards observed around any of the monitoring wells' protective standpipes. The bollards should be installed if deemed necessary or the item should be removed from the inspection checklist. During the inspection it was identified that many of the wells were not sampled during recent sampling events. If the monitoring wells are no longer required to be sampled they should be closed. Any monitoring wells that still require sampling should be repaired as necessary to maintain the integrity of the well.

Flush mount monitoring wells reportedly do not have locks. Given that the Area A landfill is a secure location on an access restricted military installation locks are not required to ensure security of the wells. This item should be removed from the inspection checklist forms.

Sediment and vegetation on and around the well covers should be removed. Cracks/separations at the concrete asphalt interface should be sealed to help prevent vegetative growth. Missing well covers and bolts should be replaced. Inspections will continue in upcoming sampling events and landfill inspections.

HOUSEKEEPING AND MAINTENANCE

As identified in the previous sections, the most of the deficiencies noted can be addressed with increased housekeeping and preventative maintenance including institutional controls, landscaping features, cap areas, and storm water controls. Specific deficiencies related to housekeeping and/or maintenance includes:

- Vegetated Areas: Herbicide treatments along the western and southwestern portions appear to have proven effective in stopping the encroachment of grass and invasive vegetation onto the asphalt cap. Follow up inspections should be performed during quarterly groundwater
-

sampling events to monitor the growth of the vegetation along the asphalt cap and drainage channels. Herbicide treatments should be scheduled on an as needed basis.

- Drainage Channels: Significant amounts of sediment and debris have accumulated in the channels creating obstructions to water flow in Channels A and C. Significant amounts of vegetative intrusion is encroaching in Channels B and D. Vegetative intrusion is coming through the asphalt in Channel B.

General housekeeping issues include the amounts of staged equipment and materials at the landfill. Some of the equipment and materials have not been staged in a systematic, orderly manner and protection of the asphalt cap is a concern. Trailer hitches and heavier equipment and materials should be placed onto protective surfaces (e.g., concrete blocks, steel plates, pallets, etc.) to prevent damage to the asphalt cap and subsurface cap system components (i.e., the gas collection and venting system and monitoring wells). Since there is relative unrestricted access by all users of the base, it is difficult to maintain a protocol for proper storage at the landfill.

INSPECTION SUMMARY

In general, the Area A Landfill is in good condition. With the exception of the cracks in the asphalt and obstructed drainage channels, the cap systems appear to be functioning as designed and are meeting the long-term remedial/closure objectives for the site. However, deficiencies have been noted that relate directly to housekeeping and maintenance issues. If these deficiencies are not addressed through a routine maintenance program, degradation of the cap components resulting in increased landfill operation costs is imminent.

Implementation of a routine maintenance program is recommended to ensure that preventable repairs are minimized and that the landfill cap system functions as designed. Table 1-1 (attached) presents a summary of the deficiencies and the recommended corrective measures.

REFERENCES

Atlantic Environmental Services, Inc (Atlantic). 1992 (August). Phase I Remedial Investigation Report, Naval Submarine Base - New London, Groton, Connecticut. Colchester Connecticut.

Atlantic. 1995a (May). Focused Feasibility Study Report and Addendum, Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut. Colchester Connecticut.

Atlantic. 1995b (June): Proposed Remedial Action Plan, Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut. Colchester Connecticut.

B&R Environmental. 1997 (March). Phase II Remedial Investigation Report, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania.

TtNUS. 2002 (November). Operation and Maintenance Manual for Installation Restoration Program Sites at Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania.

United States Environmental Protection Agency (USEPA). 1957: Environmental Photographic Interpretation Center Report, Frame No. 2971:144-149. Washington D.C.

United States Department of the Navy (Navy). 1995 (September). Record of Decision, Source Control Operable Unit, Area A Landfill, Naval Submarine Base - New London, Groton, CT. Northern Division. Lester, Pennsylvania.

APPENDIX A
LANDFILL INSPECTION CHECKLIST

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
 Page 1 of 16

SITE NAME: Site 2 - Area A Landfill (OU1)
 EPA ID: CTD980906515
 SITE LOCATION: New London County, CT
 EPA REGION: Region 1
 REMEDY AT SITE: Landfill Cover, Institutional Control, Monitoring

Date: October 12, 2005 Courtney D Moore, Jr., P E / Nobis Engineering, Inc

INSPECTOR/COMPANY

WEATHER CONDITIONS:

Temperature 55°F
 Weather Overcast, windy, rainy
 Other _____

TYPE OF INSPECTION:

- Annual Inspection
- Post-Major Weather Event Inspection
- Re-Inspection of Deficient Items
- Other _____

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
INSTITUTIONAL CONTROLS					
1) Security Fencing					
a) Fencing Around Deployed Parking Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Entrance gate to Deployed Parking Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Fence Foundations in Deployed Parking Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Entrance Gate at Thresher Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
e) Entrance Gate at Wahoo Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) No Trespassing and Security Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
g) Indications of Vandalism or Trespassing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
CAP AREAS					
2) Plateau Asphalt Cap Area					
a) General Condition of Asphalt Pavement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Level or Designed Slope Within Pavement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Cracks in Pavement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cracks on slope behind barriers and in deployed parking area Vegetation growing in the cracks
d) Erosion on Pavement or Adjacent Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
e) Holes/Penetrations in Asphalt Surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) Bulges in Asphalt Surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some bulges noted in deployed area
g) Standing Water - other than above (b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
h) Stability of Slopes and Adjacent Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
i) Groundwater Monitoring Penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
j) Damage to Pavement Caused by Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
K) Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Obvious signs of damage to asphalt surface

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 2 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIR/MAINTENANCE NOT RECOMMENDED	REPAIR/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
3) Side Slope Riprap Cap Area					
a) General Condition of Northern Catch Basin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) General Condition of Gabion Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Good
c) Localized Depressions in Riprap	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Erosion in Riprap or Adjacent Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
e) Standing Water - other than above (c)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) Stability of Slopes and Adjacent Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
g) Groundwater Monitoring Well Penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
h) Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
i) Presence of Leachate Seeps at Toe of Slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
4) Crane Test Pad					
a) General Condition of Concrete Pad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Significant crack around pad with vegetation growing in it
b) Standing Water - other than above (a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
STORM WATER FEATURES					
5) Drainage Channel A					
a) General Condition of Drainage Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siltation noted
b) Condition of Asphalt Channel Lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Siltation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siltation noted needs to be addressed
d) Invasive Vegetation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signs of invasive vegetation noted
e) Localized Depressions or Heaving	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) Condition of Culvert 1 Headwall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
g) Condition of Culvert 1 (Elliptical Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
h) Condition of Culvert 1 Endwall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some vegetation and silt buildup around pipe
i) Condition of Culvert 2 Headwall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sediment build up needs regular maintenance
j) Condition of Culvert 2 (Elliptical Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some vegetation and silt buildup around pipe
k) Condition of Culvert 2 Endwall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sediment build up remains
6) Drainage Channel B					
a) General Condition of Drainage Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Asphalt Channel Lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Invasive vegetation noted
c) Siltation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Siltation noted in swale
d) Invasive Vegetation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation noted growing through pavement
e) Localized Depressions or Heaving	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) Condition of ADS Culvert (Parking Entrance)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Overgrown with vegetation but open to flow

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
 Page 3 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIR/MAINTENANCE NOT RECOMMENDED	REPAIR/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
7) Drainage Channel C					
a) General Condition of Drainage Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siltation needs to be removed
b) Condition of Asphalt Channel Lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Siltation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siltation in swale is causing ponding, needs to be removed
d) Invasive Vegetation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Recently cut back
e) Localized Depressions or Heaving	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
f) Condition of culvert Under Parking Entrance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
8) Drainage Channel D					
a) General Condition of Drainage Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Over grown with vegetation
b) Condition of Asphalt Channel Lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
c) Siltation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
d) Invasive Vegetation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Invasive vegetation noted
e) Localized Depressions or Heaving	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
9) Drainage Channel E					
a) General Condition of Drainage Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Asphalt Channel Lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Siltation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Reddish color to drainage flow
d) Invasive Vegetation within Swale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some
GAS VENTS					
10) GVR-1					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
11) GVR-2					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
12) GVR-3					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 4 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
13) GVR-4					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
14) GVR-5					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
15) GVR-6					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16) GVR-7					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17) GVR-8					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Appears to have been moved based on mark in asphalt
18) GVR-9					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation growing around and under barriers
19) GVR-10					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Needs one more barrier

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 5 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
20) GVR-11					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Only two sides protected, should protect parking side
21) GVR-12					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
22) GVR-13					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crack in pavement within 3 barriers with vegetation growth
23) GVR-14					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Many cracks in asphalt with vegetation growing through
24) GVR-15					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
25) GVR-16					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Guano on plastic barrel
26) GVR-17					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
 Page 6 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
27) GVR-18					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
28) GVR-19					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
29) GVR-20					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
30) GVR-21					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
31) GVR-22					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetation growing, asphalt burn is broken
32) GVR-23					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
33) GVR-24					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
 Page 7 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
34) GVR-25					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
35) GVR-26					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
36) GVR-27					
a) Condition of Gas Vent Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tree growing adjacent to vent
b) Condition of End Section - 90 Degree Elbows	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen
c) Condition of Riser Protection (HDPE Pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Concrete Barriers Around Riser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
MONITORING WELLS					
37) 1MW2S					
a) Condition of Surface Surrounding Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not inspected, possibly buried under barrier
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38) 2LMW7S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetative growth and seed on portion of well cover
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Missing bolt
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
39) 2LMW7D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steel cover loose and pulled up
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
40) 2LMW8S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Area around well is damaged
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well is damaged, needs to be abandoned
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 8 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
41) 2LMW8D					
a) Condition of Surface Surrounding Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not inspected due to obstructions covering the well
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
42) 2LMW9D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Loose bolt
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
43) 2LMW13S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some sediment building up on top
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some sediment building up on top
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
44) 2LMW13D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetative growth at interface with pavement
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Missing bolt, coming up ajar
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
45) 2LMW14D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
46) 2LMW7S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
47) 2LMW17D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concrete is broken
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
48) 2LMW18S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covered with sediment, concrete is cracked
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covered with sediment
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 9 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
49) 2LMW18D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water puddle on concrete
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steel plate missing, cover loose, exposed to weather
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
50) 2LMW19S					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Paint speckled with rust
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cover jammed on with rope underneath
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None noted, rope trailing out of casing
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
51) 2LMW19D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rust patches noted
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock is rusty
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
52) 2LMW20S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Replaced in depression
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Partially under water
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
53) 2LMW20D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Area around well is damaged
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No cover present, well is exposed to weather
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
54) 3MW12D (Abandoned/Replaced)					
a) Condition of Protective Casing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Well is abandoned
b) Condition of Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Well Protection - Bollards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55) 2WMW21S					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 10 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
56) 2WMW21D					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well cover is loose
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well lock is broken
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
57) 2WMW3S					
a) Condition of Protective Casing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not inspected unable to locate possibly buried under growth
b) Condition of Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) Condition of Well Protection - Bollards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58) 2WMW3D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
59) 2LOW1S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Partially buried under wooden pallet
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Partially buried under wooden pallet
c) Condition of Well Lock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
60) 2LOW1D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Under water some siltation noted unable to fully inspect
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61) 2LOW2S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Under wooden pallets, unable to fully inspect
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
62) 2LOW3S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well cover is uneven and inside is partially up
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
63) 2LOW4S					
a) Condition of Surface Surrounding Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Under wooden pallets with sandbags, unable to inspect
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 11 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
64) 2LPW1S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In area of wood storage
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
65) 2LMW28DS					
a) Condition of Surface Surrounding Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Well not found many items stored in this area
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66) 2LMW28F					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well is under water and sediment, vegetative growth covering area around and on well cover
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
67) 2LMW29A					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Small puddle noted on the concrete
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
68) 2LMW29F					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
69) 2LMW30DS					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Located behind garbage dumpster
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
70) 2LMW30F					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Well is partially covered by garbage dumpster
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
71) 2LMW31DS					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 12 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
72) 2LMW32DS					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetative growth around concrete edge
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
73) 2LMW32F					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetative growth around well cover
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
74) 2LMW32B					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetative growth around well cover
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
76) 2LMW39F					
a) Condition of Surface Surrounding Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not inspected
b) Condition of Flush Mount Well Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Condition of Well Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
77) 2LMW34DS					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
78) 2WMW38DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock is in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
79) 2WMW39DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock is in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

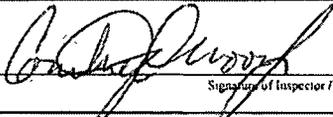
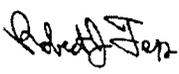
INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 13 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
80) 2WMW40DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
81) 2WMW41DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
82) 2WMW42DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
83) 2WMW43DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Minor rust noted
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
84) 2WMW44DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
85) 2WMW45DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
86) 2WMW46DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 14 of 16

AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
87) 2WMW47DS					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
88) 31W37S					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rusty
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock					Lock in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
89) 4MW1S					
a) Condition of Protective Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Paint is chipping
b) Condition of Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lock is in good condition
d) Condition of Well Protection - Bollards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 15 of 16

Adequacy of O&M at Site: Overall, O&M practices at the site are sufficient. Current practices should be sufficient to maintain the effectiveness of the remedy.	
Notes: As described in checklist above	
Deficiencies/Items Requiring Corrections: Cracks in the asphalt cap should be filled and sealed on an annual basis. Vegetation and sediment should be removed from the swale and culvert areas to maintain proper drainage throughout the site. There were no screens noted on any gas vents. Screens should be added to prevent animals from inhabiting the vents as shelters. Fresh neutral monitoring wells reportedly do not have locks. Equipment should be stored in a manner that utilizes protective surfaces to prevent damage to the asphalt surface.	
<u>Guilford D. Masou, Jr., P.E.</u> Printed Name of Inspector	 12/5/05 Signature of Inspector / Date
Certification Statement: I hereby certify that a complete and thorough inspection and evaluation of the site and implemented remedy has been performed, and that the items noted on this inspection form have been assessed with respect to the intent of the implemented remedy and the remedial action objectives established for the site.	
<u>Robert J. Tess,</u> Printed Name of O&M Engineer	<u>Richard D. Conant Jr.</u> Printed Name of NSB-NLON IRP Manager
 Digitally signed by Robert J Tess, PE Date: 2005.11.10 15:56:43 -05'00'	 2 Dec 05 Signature of NSB-NLON IRP Manager / Date

INSPECTION CHECKLIST
SITE 2 - Area A Landfill
Page 16 of 16

Provide additional notes or sketch as needed

See attached Site Plan

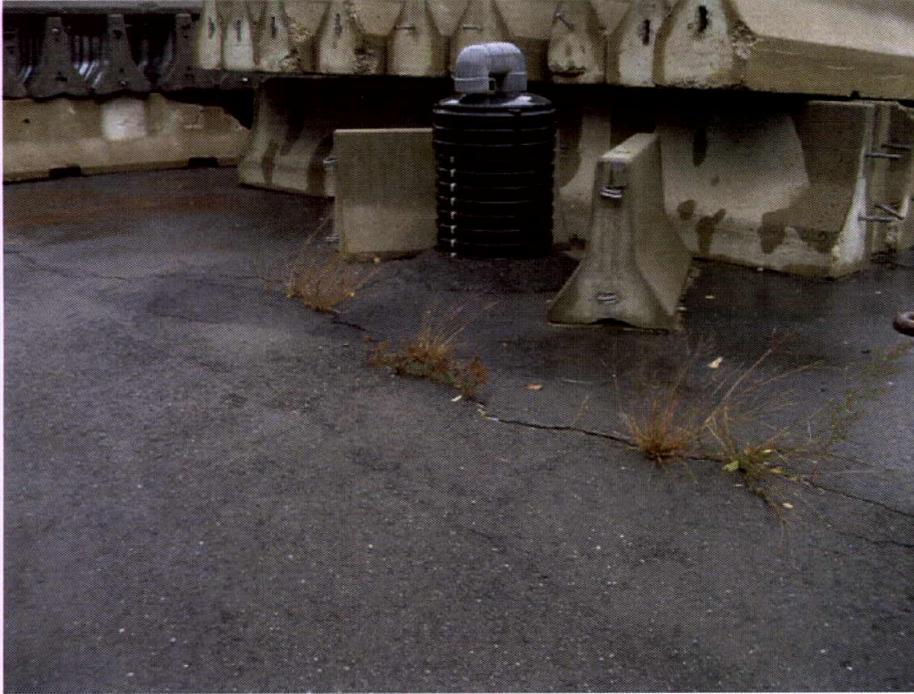
APPENDIX B
DEFICIENCY LOG

**Naval Submarine Base - New London, Groton, CT
Area A Landfill Annual Inspection - Deficiency Log
October 2005**

No.	Item	Deficiency	Recommended Action 11 October 2005
1	Asphalt Cap System	Cracking / separation in asphalt cap.	Continue to monitor cracks and seal them as specified in the inspection checklist.
2	Asphalt Cap System	Bulges in asphalt surface in Deployed Parking Area.	Monitor bulges for cracks and exposed cap components. Most likely the result of frost expansion and contractions.
3	Drainage Channels A and C.	Accumulated sediment	Remove sediment and debris. Implement routine (quarterly), periodic maintenance to identify potential obstructions and remove them.
4	Drainage Channels B and D.	Phragmites and vegetative intrusion.	Remove vegetation manually or with herbicide treatments on an as needed basis.
5	Housekeeping and Maintenance	Improper protection for the asphalt in the staging of equipment and materials.	Minimize equipment and materials staging. Stage in a systematic, orderly manner and use protective surfaces (e.g., concrete blocks, steel plates, pallets, etc.) to prevent damage to the asphalt cap and subsurface cap system components such as the gas collection and venting system and monitoring wells.
6	Monitoring Wells	Sediment build up and vegetation growing on some wells. Some wells are missing covers exposing them to the elements.	Remove sediment and vegetation build up and perform inspection during quarterly groundwater sampling rounds. Close wells that are no longer necessary for landfill monitoring. See inspection checklist for details.
7	Gas vents	No screens noted on any gas vent at the site.	Install screens to restrict animal habitation.

APPENDIX C
INSPECTION PHOTOS

**Naval Submarine Base
New London, CT
Site 2 – Area A Landfill
October 11, 2005**



Cracks in pavement with vegetative growth.



Cracked pavement in deployed parking area.



Sediment and vegetation build up at culvert No. 2 inlet.



Sediment build up in Channel A.



Missing cover and damage to 2LMW8D.



Equipment stored without proper protection for the asphalt surface.



2MW21S broken cap, well exposed to elements.



Vegetation growing through asphalt near GVR-27.



Vegetation growing through Channel B.



Vegetation growing through crack in asphalt in deployed parking area.