

Annual Landfill Inspection Report for Goss Cove 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

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ANNUAL LANDFILL INSPECTION REPORT
FOR
GOSS COVE LANDFILL

NAVAL SUBMARINE BASE – NEW LONDON
GROTON CONNECTICUT

ENVIRONMENTAL OPERATION AND
MAINTENANCE CONTRACT

Submitted to:
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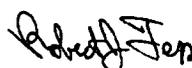
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PURPOSE

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 ecological impacts associated with the landfilled materials beneath the cap. Features integral to the effectiveness of the Goss Cove Landfill cap system include institutional controls, landscaping features, cap areas, and storm-water controls. This 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

Goss Cove Landfill is located in the southwestern corner of NSB-NLON in the towns of Ledyard and Groton, Connecticut. The Initial Assessment Study (IAS) report (NEESA, 1983) indicated that a landfill was operated at this site from 1946 through 1957. Incinerator ash and inert rubble were disposed at the site, in what was then the northern portion of Goss Cove. It is not known if any other materials were disposed in the former landfill. It has been reported that several large compressed gas cylinders were uncovered during the excavation of a utility trench in the parking area north of the Nautilus Museum building. One of the cylinders was leaking propane, one was filled with ammonia, and the others were empty.

From 1992 to 1999, assessment activities were conducted at the site and resulted in the selection of a remedy of containment for the soil and sediment Operable Units (OU). A ROD (TtNUS, 1999) for the soil and sediment OUs at Site 8 was signed by the Navy and the United States Environmental Protection Agency (USEPA) in September 1999. Based on the ROD, a remedial action was required for the soil OU, and no further action was required for the sediment OU. The selected remedy for the soil and waste and fill material within the Goss Cove Landfill consisted of containment using an engineered control cap, institutional controls, groundwater monitoring, O&M, and five-year reviews.

INSPECTION ACTIVITIES

Site history and cap design was 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 V Goss Cove Landfill (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 Moore (Nobis Engineering, Inc.), and Mr. Doug Kemp (Gannet Fleming) who was representing United States Environmental Protection Agency (USEPA).

The inspection activities concluded that the cap system and the associated features appear 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 landfill inspection checklists contained in the Landfill O&M Manual (TtNUS 2002) completed on 11 October 2005, a deficiencies log with corrective actions completed 18 October 2005, an annotated site map (Figure 1-1), and photographs 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 Goss Cove Landfill.

Security Fencing & Gates

Security fencing extends along the perimeter of the site to prevent unauthorized access and several vehicle gates and personnel 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 satisfactory working order. A few upper tension wires were broken at the main gate area. A bent fence pole was observed in the northeast portion of the fence at the bedrock outcrop. However, the pole is still performing as required and does not need to be replaced at this time. A tree branch was observed growing into the fence near the picnic area. It was assessed during inspection activities deficiencies which were not addressed by routine facility maintenance activities were not time critical and could be addressed along with operation and maintenance activities during 2006.

Signage

One sign "No Trespassing" was observed posted on the bedrock outcrop. No other signage was observed during the inspection. Based on the public use requirements of the site and unrestricted access (there is as Submarine Museum on site that is open to the public), signage is not a required institutional control at the Goss Cove Landfill.

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 Goss Cove Landfill include concrete pavers, curbing, sidewalks, foundation pads, retaining wall, light poles, flagpoles, picnic area, naval displays, irrigation system, and shrubs.

Concrete Pavers

The concrete pavers were visually inspected for settling, heaving, cracking, spauling, drainage, and overall integrity. Concrete pavers appeared to be level and sloped toward the drains and were in good condition. No pavers were observed to be broken, cracked, or otherwise damaged and no pooling of surface water (during rain event) was observed in any of the concrete paver areas. No corrective measures are recommended for the concrete pavers. However, it should be noted a large circular shaped concrete pad that is below the concrete paver grade and represents a possible trip hazard was observed in the area near the Missile Hatch Display. This concrete slab should be removed and replaced by concrete pavers that match the existing conditions.

Concrete & Granite Curbing

Concrete and granite curbing was visually inspected for settling, heaving, cracking, spauling, and overall integrity. In general, the concrete and granite curbing was in good condition. No corrective measures are recommended for the concrete and granite curbing.

Concrete Sidewalks

Concrete sidewalks were inspected for evidence of settling, heaving, cracking, spauling, and overall integrity. No significant deficiencies were observed during this inspection and no corrective measures are recommended for the concrete sidewalks.

Trailer Foundation

The trailer foundation was inspected for overall integrity as well as the areas around the foundation and ground surface interface. The foundation appeared to be in good condition on the day of the inspection. There are no corrective measures recommended for the trailer foundation.

Dumpster Pad

The dumpster pad is located at the northeast corner of the site and is composed of cast-in-place concrete. The pad appeared to be in good condition and no indications of settling, heaving, cracking, or spauling were observed during this inspection. No corrective measures are recommended for the dumpster pad.

East Retaining Wall

The east retaining wall is comprised of cast-in-place concrete and is located at the southern portion of the site, adjacent to the museum. There were no indications of settling, heaving, cracking, or spauling observed during the inspection. The wall is in good condition and no corrective measures are recommended.

Light Poles

Fourteen light poles were inspected including the concrete foundations, the interface at the foundation and ground surface, and general condition of the pole (i.e., paint, plumbness, etc.). No deficiencies were observed on any of the light poles inspected and no corrective measures are recommended.

Flagpoles

Six flagpoles were inspected; items inspected included the general condition of the poles (i.e., paint, plumbness, etc.), concrete foundations, and the interface at ground surface and foundation. The poles were in relatively good condition. However, a few minor deficiencies were observed. Flag pole B had a broken outlet at the base, flag poles D and F have slight bends near the base, and flag pole E had grass covering the base. It should be noted that the deficiencies do not impact the overall function of the flag poles and they can still be used as intended. Therefore, no corrective measures are recommended.

Picnic Area

Items inspected at the picnic area included condition of the foundation support and the interface at the foundation and ground surface. No deficiencies were noted during the inspection and no corrective measures are recommended.

Submarine Displays

A total of four submarine displays were inspected; items included the concrete foundations and the interface at the foundation and ground surface. The supports appeared to be in good condition. Some chipping of the concrete was noted on the foundation of the western most submarine display. This chipping appears to be minor and is not impacting the overall integrity of the structure. This chipping will be monitored during subsequent inspections. No corrective measures are recommended at this time.

Gun Display

The gun display was not observed during the 11 October 2005 inspection. It is believed that the display may have been removed from the site. If the Navy can confirm the removal of this display, it should be removed from the inspection checklist for subsequent annual inspections.

Missile Hatch Display

Items inspected at the missile hatch display included the concrete foundation support and the interface at the foundation and ground surface. No deficiencies were noted and no corrective measures are recommended.

Irrigation System

The irrigation system and its components were inspected; items included condition of sprinkler heads, system operation, and the condition of pumps and controls. There were several areas where the systems pipes were exposed and some were observed to be

separated. According to the naval representative for the site, there are many broken sections within the system. Several of the sprinkler heads are not functional and are in need of replacement.

Shrubs

The shrubs were inspected to evaluate their vitality and overall condition. Shrubs provide some functional value by adsorbing rain water (through root systems) thereby reducing the volume of infiltration eventually reaching and potentially permeating the geomembrane. The root systems also help to stabilize the surrounding soils. Several species of shrubs are located in the landscape areas at Goss Cove, all of which appeared to be in good condition.

CAP AREAS

The 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 Goss Cove Landfill is a geomembrane liner placed over a prepared subgrade. Secondary cap components include asphalt pavement and vegetated, or grassed, areas.

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, shoreline revetment); groundwater monitoring well penetrations; and, exposed cap components.

The asphalt pavement was found to be in good condition with no observations of damage, settling, heaving, cracking, or spauling. The grade appeared to be level and consistent and surface runoff was observed to flow to catch basins as designed. Some pooling and standing water was observed around the catch basins and on top of monitoring well penetrations. No erosion was evident at the pavement/grass interface and the adjacent slope areas appeared to be stabilized. No exposed cap components were observed during the inspection and no corrective measures are recommended for the asphalt pavement cap system.

Vegetated Areas

Vegetated areas were inspected for general conditions, grading/drainage, erosion, slope stability, groundwater monitoring well penetrations, exposed cap components, and animal intrusion. No significant depressions (settling) or heaving was observed. Surface water was draining adequately and no significant pooling of water was observed during the rain event. All areas appeared to be stabilized and no erosion was noted. There was no visual evidence of cap intrusion by burrowing animals (e.g., groundhogs, small rodents, etc.) that may damage the geomembrane cap system.

STORM WATER FEATURES

Box Culvert

The box culvert that discharges at the shoreline stone revetment was inspected to ensure that it was free of obstructions and was in generally good condition. The pre-cast concrete box culvert outlet was in good condition, no cracks or spauling was observed and no debris was obstructing the flow. Revetment stone immediately around the face of the outlet was stabilized and no erosion was noted. A floating debris boom is located around the discharge point. Any debris that accumulates in the boom is removed on a routine basis.

The interior of the box culvert was not inspected as part of routine inspection activities. Because this is an underground structure, human occupancy is prohibited as it is a

confined space. Currently, the box culvert appears to be functioning as designed and an inspection of the interior is not time critical.

Catch Basins

Nine catch basins were inspected to ensure that they were in good condition, that there were no obstructions at the inlet, and to ensure that there was not a significant amount of accumulated sediment in the drains. The culvert inlets were found to be in good condition; no significant obstructions or debris was observed at the inlets. The mortared joints between the catch basins and the inlet and outlet piping all appeared to be in good condition. Sediment buildup was observed in CB 4 and CB 5 only, with measurements ranging from approximately 6 to 8 inches. Recommended corrective measures for the catch basins include continued removal of sediment on a routine basis (i.e. annually).

Yard Drains

Six yard drains were inspected to ensure that they were in good condition, that there were no obstructions at the inlet, and to ensure that there was not a significant amount of accumulated sediment in the drains. The yard drains were found to be in good working condition. A few of the yard drain covers were approximately half covered with leaf litter and grass. However, the surface runoff was still flowing freely in the drains and pipes. Sediment buildup in the bottom the yard drains was relatively minimal. It should be noted that yard drain 6A and 6B were too deep to be measured with the measuring device on the day of the inspection. Yard drain drainage structures should continue to be cleaned out on a routine basis to prevent sediment buildup.

Gas Vents

The passive release gas vents (3) were inspected to evaluate the general condition of the risers and the screens. There are currently no screens installed on any of the gas vents. Screens should be installed to prevent animal inhabitation of the gas vents. The interface between the riser and the ground surface was also visually inspected for indications of settlement induced stresses on the geomembrane. Gates surrounding the

gas vents did not have locks. These areas are easily accessible to the public. Therefore, locks for the gates are recommended for security reasons. Additionally, invasive vegetation partially inhibited the access gate to gas vent M. It is recommended that this vegetation be removed.

Groundwater Monitoring Wells

Fourteen groundwater monitoring wells are located within the vicinity of the Goss Cove landfill. Wells conditions including protective casing and the well cover / road box were inspected. Monitoring wells 8MW1, 8MW4, and 8MW5S were missing a bolt(s). The wells are also inspected as part of quarterly sampling events. Monitoring wells 8MW1, 8MW3, 8MW5, and 8MW9, had standing water around or on the well covers. However, the covers and road boxes on the aforementioned wells are currently functioning properly to limit runoff into the wells. Inspections will continue in upcoming sampling events and landfill inspections. None of the monitoring wells are reported to have a lock due to the dedicated pumps in each well. If the need for locks on the wells does not exist, then it is recommended to amend the inspection checklist to remove the requirement to inspect the well locks.

INSPECTION SUMMARY

In general, the Goss Cove Landfill (Site 8) is in very good condition as a result of proper maintenance and upkeep by the naval base facilities group. The cap systems appear to be functioning as designed and are meeting the long-term remedial/closure objectives for the site. There were no screens observed on the three gas vents. Screens should be installed to prevent animal occupancy of the structures. Because the area is open to the public, locks should also be installed on the gates surrounding the gas vents. Some catch basin structures were observed to have minor sediment buildup in the bottom of the structures and debris buildup around the inlets. This sediment and debris buildup should continue to be periodically removed.

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 measures.

REFERENCES

Naval Engineering and Environmental Support Activity (NEESA). 1983 (March). Final Initial Assessment Study of Naval Submarine Base, New London, Connecticut. NEESA 13-025. Port Hueneme, California

TtNUS. 1999 (September). Record of Decision for Goss Cove Landfill (Site 8), Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania.

TtNUS. 2002 (November). Operation and Maintenance Manual for Installation Restoration Program Sites at Naval Submarine Base - New London, Groton, Connecticut, Volumes 1 & V. King of Prussia, Pennsylvania.

APPENDIX A
LANDFILL INSPECTION CHECKLIST

INSPECTION CHECKLIST
SITE 8 - GOSS COVE LANDFILL
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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
4) Granite Curbing (Exhibit and Paver Areas)					
<i>a) General Conditions of Curbing</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ok.
<i>b) Indication of Cracked Curbing</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Indication of Dislodged Curbing</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Indication of Heaved Curbing</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
5) Concrete Sidewalks					
<i>a) General Conditions of Sidewalks</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Indication of Cracked Sidewalks</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Indication of Dislodged Sidewalks</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Indication of Heaved Sidewalks</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
6) Submarine Displays (Four Total)					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chipped concrete on sub near culvert 13.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
7) Trailer Foundation (Maintenance Bldg)					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Good.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
8) Missile Hatch Display					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Good.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
9) Gun Display					
<i>a) Conditions of Foundation Support</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not observed, possibly removed, currently presents a trip hazard.
<i>b) Interface at Ground Surface and Foundations</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>c) Observation of Exposed Cap Components</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>d) Center Island Flagpoles (Poles A, B, and C)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>e) Retaining Wall on West Side</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10) Retaining Well on East Side					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

INSPECTION CHECKLIST
SITE 8 - GOSS COVE LANDFILL
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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIR/MAINTENANCE NOT RECOMMENDED	REPAIR/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
11) Flagpole *A					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
					None.
12) Flagpole *B					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Broken outlet at base.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
13) Flagpole *C					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
14) Flagpole *D					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ok, but bent near base.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
15) Flagpole *E					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Covered in grass.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ok.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
16) Flagpole *F					
<i>a) General Condition of Flagpole</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bent near base.
<i>b) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
17) Picnic Area					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

INSPECTION CHECKLIST
SITE 8 - GOSS COVE LANDFILL
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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIR/MAINTENANCE NOT RECOMMENDED	REPAIR/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
18) Dumpster Pad					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
19) Light Pole #2					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
20) Light Pole #6					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
21) Light Pole #7					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None.
22) Light Pole #8					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
23) Light Pole #9					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
24) Light Pole #10					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
25) Light Pole #11					
a) Conditions of Foundation Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
b) Interface at Ground Surface and Foundations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Observation of Exposed Cap Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIR/MAINTENANCE NOT RECOMMENDED	REPAIR/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
26) Light Pole #12					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
27) Light Pole #14					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
28) Light Pole #G					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
29) Light Pole #H					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
30) Light Pole #I					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
31) Light Pole #K					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
32) Light Pole #S					
<i>a) Conditions of Foundation Support</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Interface at Ground Surface and Foundations</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Observation of Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
33) Irrigation System					
<i>a) Conditions of Sprinkler Heads</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Many broken sprinkler heads.
<i>b) System Operation</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hoses are exposed, some separated, whole system is in need of repair.
<i>c) Condition of Pump and Controls</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
34) Asphalt Surface Cap					
<i>a) General Condition of Asphalt Pavement</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	General condition is good.
<i>b) Level or Designed Slope Within Pavement</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OK.
<i>c) Cracks in Pavement</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Erosion in Pavement or Adjacent Areas</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>e) Holes/Penetrations in Asphalt Surface</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>f) Bulges in Asphalt Surface</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>g) Standing Water - other than above (b)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some water around catch basin below.
<i>h) Stability of Slopes and Adjacent Areas</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OK.
<i>i) Groundwater Monitoring Well Penetration</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some ponding noted above some wells (see below).
<i>j) Damage to Pavement Caused by Use</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>k) Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
35) Grass Surface Cap					
<i>a) General Condition of Vegetation</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Good.
<i>b) Level or Designed Slope Within Grass Area</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Erosion in Vegetation or Adjacent Areas</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Standing Water - other than above (b)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>e) Stability of Slopes and Adjacent Areas</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>f) Groundwater Monitoring Well Penetration</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No settlement around wells in grass.
<i>g) Damage to Pavement Caused by Museum Use</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>h) Exposed Cap Components</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
STORM WATER FEATURES					
36) Box Culvert (Road to River)					
<i>a) Condition of Upper Junction Box - Exterior</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>b) Condition of Upper Junction Box - Interior</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Condition of Box Culvert - Interior Sections</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>d) Condition of Outfall</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Low volume of water noted, approximately 1 inch of water.
37) Catch Basin 1 (CB 1)					
<i>a) General Condition of Inlet</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some leaf litter covering grate, approximately 10% covered.
<i>b) Sediment Within Inlet</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Obstructions at Pipe Inlets or Outlets</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
38) Catch Basin 2 (CB 2)					
<i>a) General Condition of Inlet</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some grass covering grate.
<i>b) Sediment Within Inlet</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
<i>c) Obstructions at Pipe Inlets or Outlets</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
39) Catch Basin 3 (CB 3)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
40) Catch Basin 4 (CB 4)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approximately 7 to 8 inches in bottom.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
41) Catch Basin 5 (CB 5)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approximately 6 inches in bottom.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
42) Catch Basin 7A (CB 7A)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
43) Catch Basin 7B (CB 7B)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition. Some leaves collecting in grate.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
44) Catch Basin 8 (CB 8)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Puddles around concrete in asphalt.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
45) Catch Basin 9 (CB 9)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Brown water in basin.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
46) Yard Drain 6A (YD #6A)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Sediment Within Inlet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not measured, too deep for measuring stick.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.

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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
47) Yard Drain 6B (YD #6B)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	50% covered by leaf litter. Landscape material exposed near grate.
b) Sediment Within Inlet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not measured, too deep for measuring stick.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
48) Yard Drain 7C (YD #7C)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetative growth noted around entrance.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
49) Yard Drain 11 (YD #11)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition. Water flowing clear and unobstructed.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
50) Yard Drain 11A (YD #11A)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash, cigarette and leaves over grate.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Approximately 2 inches at bottom.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
51) Yard Drain 13 (YD #13)					
a) General Condition of Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Partially covered by dirt and grass.
b) Sediment Within Inlet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Less than 1/2 inch.
c) Obstructions at Pipe Inlets or Outlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None.
STORM WATER FEATURES					
52) Gas Vent *L					
a) Condition of Riser and Top Section	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Condition of Screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen noted. Need a lock for the gate surrounding the vent.
53) Gas Vent *M					
a) Condition of Riser and Top Section	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Condition of Screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Generally in good condition. Need a lock for the gate surrounding the vent. Vegetation buildup around gate entrance should be removed.
54) Gas Vent *N					
a) Condition of Riser and Top Section	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Generally in good condition.
b) Condition of Screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No screen noted, needs to be installed.

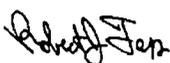
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AREA OF INSPECTION	INSPECTED	DOES NOT APPLY	REPAIRS/MAINTENANCE NOT RECOMMENDED	REPAIRS/MAINTENANCE RECOMMENDED	NOTES AND COMMENTS
55) 8MW1					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some sediment and ponding of water on concrete
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Missing a bolt on the cover.
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No lock noted.
56) 8MW25					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concrete and road box are in good condition, recently replaced.
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No lock noted.
57) 8MW2D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concrete and road box are in good condition, recently replaced.
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"/>	No lock noted.
58) 8MW3					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rim of well not flush with concrete, water is pooling around concrete.
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cover is loose, bolts need tightening.
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No lock noted.
59) 8MW4					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concrete is in acceptable condition.
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cover needs two bolts.
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No lock noted, no dedicated pump, water inside over well cap has sheen on it.
60) 8MW5S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concrete is in acceptable condition.
b) Condition of Flush Mount Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cover is missing a bolt, and road box is missing the bolt thread. Ponding water over concrete.
c) Condition of Well Lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No lock noted.
61) 8MW6S					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some under mining of concrete pad at stone blocks.
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"/>	No well lock noted.
62) 8MW6D					
a) Condition of Surface Surrounding Well Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concrete and road box are in good condition, recently replaced.
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"/>	No lock noted.

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63) 8MW7S					
a) Condition of Surface Surrounding Well Cover	■	□	■	□	Concrete is in acceptable condition.
b) Condition of Flush Mount Well Cover	■	□	■	□	None.
c) Condition of Well Lock	■	□	■	□	No lock noted, rubber cap over tubing.
64) 8MW8S					
a) Condition of Protective Casing	■	□	■	□	Concrete is in acceptable condition ponding water noted on top, well reportedly not gauged or sampled.
b) Condition of Well Cover	■	□	■	□	None.
c) Condition of Well Lock	■	□	■	□	None.
d) Condition of Well Protection - Bollards	■	□	■	□	None installed.
65) 8MW8D					
a) Condition of Protective Casing	■	□	■	□	None.
b) Condition of Well Cover	■	□	■	□	None.
c) Condition of Well Lock	■	□	■	□	No lock noted.
d) Condition of Well Protection - Bollards	■	□	■	□	None installed.
66) 8MW9S					
a) Condition of Surface Surrounding Well Cover	■	□	■	□	Under puddle in roadway, reportedly not sampled.
b) Condition of Flush Mount Well Cover	■	□	■	□	None.
c) Condition of Well Lock	■	□	■	□	No lock noted.
67) 8MW10S					
a) Condition of Surface Surrounding Well Cover	□	□	□	□	Well not inspected, unable to locate, possibly buried under foam and grass.
b) Condition of Flush Mount Well Cover	□	□	□	□	
c) Condition of Well Lock	□	□	□	□	
68) HNUS-23 (Tank Farm)					
a) Condition of Surface Surrounding Well Cover	■	□	□	■	No concrete around cover.
b) Condition of Flush Mount Well Cover	■	□	□	■	Missing one bolt, the other bolt is coming up.
c) Condition of Well Lock	■	□	■	□	No lock noted.

INSPECTION CHECKLIST
SITE 8 - GOSS COVE LANDFILL
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<p>Adequacy of O&M at Site:</p> <p>Overall, O&M practices at the site are sufficient. Current practices should be sufficient to maintain the effectiveness of the remedy.</p>	
<p>Notes:</p> <p>Notes as listed above in checklist.</p>	
<p>Deficiencies/Items Requiring Corrections:</p> <p>Concrete circular pad located near Missile Hatch Display. Represents a trip hazard.</p> <p>Irrigation system has many exposed pipes that are damaged and/or separated. Broken section and several sprinkler heads are not functional and in need of repair/replacement.</p> <p>Some sediment build up in CB-4 and CB-5. Leaf litter and grass covering inlets to a few yard drains.</p> <p>BMW10S is buried under loam.</p> <p>BMW9S is in a depression of the road.</p> <p>No screens on any gas vent. Invasive vegetation around gas vent M. No locks for gates around gas vents L and M.</p>	
<p>Courtney D. Moore, Jr., P.E. Printed Name of Inspector</p>	<p> 12/5/05 Signature of Inspector / Date</p>
<p>Certification Statement:</p> <p>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.</p>	
<p>Robert J. Tess, Printed Name of O&M Engineer</p>	<p>Richard O. Conant Jr. Printed Name of NSB-NLON IRP Manager</p>
<p> Digitally signed by Robert J. Tess, PE Date: 2005.11.10 15:52:32 -05'00'</p>	<p> 2 Dec 05 Signature of NSB-NLON IRP Manager / Date</p>

INSPECTION CHECKLIST
SITE 8 - GOSS COVE LANDFILL
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Provide additional notes or sketch as needed:

See attached sketch

APPENDIX B
DEFICIENCY LOG

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

No.	Item	Deficiency	Recommended Action 11 October 2005
1	Concrete circular pad located near Missile Hatch Display.	Represents a trip hazard.	Remove slab and replace with concrete pavers that match existing pavers.
2	Irrigation system.	Many exposed pipes that are damaged and/or separated. Broken section and several sprinkler heads are not functional and in need of repair/replacement.	Fixed broken pipes and bury them below ground. Fix or replace damaged sprinkler heads.
3	Catch basins and yard drains.	Some sediment build up in CB-4 and CB-5. Leaf litter and grass covering inlets to a few yard drains.	Continued maintenance and removal of sediment and debris on a routine basis (i.e. annually).
4	8MW10S	Buried under loam.	Find or replace well.
5	8MW9S	In depression of road.	Repair or close as appropriate.
6	Gas vents	No screens on any gas vent. Invasive vegetation around gas vent M. No locks for gates around gas vents L and M.	Install screens on gas vents. Remove vegetation from around gas vent M. Install locks on the gates around gas vents L and M.

APPENDIX C
INSPECTION PHOTOS

Naval Submarine Base
New London, CT
Site 8 – Goss Cove Landfill
October 11, 2005



Concrete pad near Missile Hatch Display that represent a potential trip hazard.



Yard drain 11A with grass and some trash on inlet.



Chipped concrete on a submarine display.



Recently replaced concrete and road boxes for 8MW2S and 8MW2D.