



FOSTER WHEELER ENVIRONMENTAL CORPORATION

August 17, 1999
File # 1284-0034-99-0402

Commanding Officer
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop #82
Lester, PA 19113-2090
Attn: Bill Faustman

Subject: US NAVY CONTRACT NO. 62472-94-D-0398
DELIVERY ORDER NO. 0034
NWS-EARLE, NJ
SITE 6: FORMER LANDFILL
COASTAL ZONE MANAGEMENT CONSISTENCY
DETERMINATION

Dear Mr. Faustman:

Enclosed is the Coastal Zone Management Consistency Determination to be submitted to the NJDEP for the Site 6 Former Landfill Bank Stabilization project at Naval Weapons Station Earle-Waterfront in Leonardo, New Jersey. I have forwarded copies to Kurt Frederick of Northern Division and NWS-Earle personnel. I also e-mailed an electronic copy to Kurt Frederick in order for him to make any necessary changes prior to submission to NJDEP. Included in this package is a form letter from the Navy to the NJDEP.

If you have any questions or comments, please contact me at (215) 702-4015.

Sincerely,

Michael Heffron
Delivery Order Manager

Enclosure

cc: K. Frederick
T. Dunn
G. Goepfert
File



**COASTAL ZONE MANAGEMENT CONSISTENCY DETERMINATION
FOR SLOPE STABILIZATION AT SITE 6,
FORMER LANDFILL AREA**

NAVAL WEAPONS STATION – EARLE

Issued:

August 18, 1999

Prepared for:

Naval Facilities Engineering Command
10 Industrial Highway
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REMEDIAL ACTION CONTRACT N62472-94-D-0398
DELIVERY ORDER NO. 0034

<u>Revision</u>	<u>Date</u>	<u>Prepared By:</u>	<u>Approved By:</u>	<u>Pages Affected</u>
0	August 16, 1999	J. Fischl	M. Heffron, P.G.	N/A

**COASTAL ZONE MANAGEMENT CONSISTENCY DETERMINATION
SITE 6 LANDFILL
SLOPE STABILIZATION
NAVAL WEAPONS STATION EARLE
LEONARDO, MONMOUTH COUNTY, NEW JERSEY**

1.0 DESCRIPTION OF ACTIVITY

The Navy is proposing to stabilize the outer bank of the Site 6 Landfill at Naval Weapons Station Earle (NWS-Earle). NWS-Earle is located in Monmouth County in east-central New Jersey (Figures 1). The base consists of a Water Front area and a Mainside area occupying a total of approximately 11,134 acres. The Water Front area borders Sandy Hook Bay, however, the bulk of the Water Front area is approximately 1.8 miles from the water's edge with only approximately 0.25 miles fronting the bay. The Mainside of the base is located approximately 10 miles inland from the Atlantic Ocean. The Mainside and Waterfront areas of the base are linked by a narrow tract of land that serves as a right-of-way for a government road and railroad line.

NWS Earle is responsible for furnishing ammunition to the naval fleet, and coordinates all port services and logistical support for home-ported and visiting ships. The base also conducts safety inspections, supervises ammunition loading for the United States Coast Guard, and provides marine fire fighting capability and standby tug services.

1.1 Present Activities

The Site 6 Landfill ("Landfill") is located west of Normandy Road at the Waterfront area of the NWS-Earle Base. The Waterfront consists of an ammunition depot and associated piers for loading and servicing the naval fleet. The Landfill was active between 1943 and 1965 and received refuse generated from the Waterfront area. Wastes consisted of dunnage lumber, glass, paper, packing material, and small amounts of paint and solvent. An estimated 2,500 tons of waste was deposited annually. The majority of the landfill is currently paved or occupied by buildings. At present, the existing northern slope of the outer bank results in conditions favorable to erosion. Eroded soil, which could potentially be contaminated, could potentially enter surrounding tidal wetlands.

1.2 Proposed Activities

Proposed modifications at the Site 6 Landfill are designed to ensure there is sufficient stabilized cover on the landfill perimeter to prevent erosion of soils associated with the former landfill. To meet these objectives the following measures will be implemented (See Drawings C-1 and C-2):

- Installation of temporary soil erosion and sediment control measures.
- Clearing and grubbing of project area.
- Backfilling and grading of the site.
- Installation of soil and vegetative mat to design elevations.
- Establishment of vegetation.
- Removal of temporary control measures.

The Soil Erosion and Sediment Control Plan (Figures 2 and 3) will be submitted to the appropriate local agency prior to construction.

2.0 ANALYSIS

The following New Jersey Coastal Management Program policies or rules pursuant to NJAC 7:7E are considered applicable to the proposed activity.

7:7E-3.23	Filled Water's Edge
7:7E-3.25	Flood Hazard Area
7:7E-3.27	Wetlands
7:7E-3.28	Wetlands Buffers
7:7E-3.34	Steep Slopes
7:7E-3.41	Special Hazard Areas
7:7E-3.42	Excluded Federal Lands
7:7E-5.3	Coastal Growth Rating
7:7E-5.4	Environmental Sensitivity Rating
7:7E-5.5	Development Potential
7:7E-5.6	Definition of Acceptable Intensity of Development
7:7E-7.6	Public Facility Use Rule
7:7E-7.13	National Defense Facility Use Rule
7:7E-8.4	Water Quality
7:7E-8.7	Stormwater Management
7:7E-8.8	Vegetation
7:7E-8.9	Buffers and Compatibility of Uses

2.1 7:7E-3.23 Filled Water's Edge - Historically, the Site 6 Landfill may have been a tidal wetland prior to disposal activities. The landfill is located adjacent to a freshwater/estuarine tidal wetland complex. The current landfill surface is three to ten feet higher than adjacent wetland. Proposed activities involve maintenance of a previously authorized landfill.

2.2 7:7E-3.25 Flood Hazard Area - The proposed activity will be located within a previously developed portion of the 100 year flood plain. The 100 year flood plain elevation has been determined to be 10 feet above mean sea level. Activities associated with the stabilization of the outer bank of the landfill will occur between six and twelve feet above mean sea level.

2.3 7:7E-3.27 Wetlands - All activities associated with slope stabilization are located outside of delineated freshwater or estuarine water tidal wetlands boundaries. No wetlands will be disturbed as a result of re-grading, fill and stabilization activities associated with the Site 6 Landfill improvements.

2.4 7:7E-3.28 Wetlands Buffers - The Site 6 Landfill improvements are located approximately five feet south of the nearest freshwater wetland and approximately 200 feet south of the nearest estuarine tidal wetland. No threatened or endangered species are known to inhabit NWS-Earle. Pursuant to the New Jersey Freshwater Protection Act Rules (N.J.A.C. 7:7A) the freshwater wetland would most likely be classified as intermediate which would require a 50 foot buffer. Implementation of the Site 6 Landfill improvements will not have significant adverse impact on freshwater or tidal wetlands but rather will result in beneficial effects resulting in stabilization of soil and prevention of erosion.

2.5 7:7E-3.34 Steep Slopes - Current slope conditions associated with the outer bank of the Site 6 Landfill are greater than 15 percent. Site improvements will result in addition of clean fill, re-contouring and vegetation of the outer bank. Final slope will be 4:1.

2.6 7:7E-3.42 Excluded Federal Lands - NWS-Earle is a Naval installation operated the United States government and is therefore excluded from New Jersey's Coastal Zone as required by the Federal Coast Zone Management Act. This document addresses consistency with the State Rules on Coastal Zone Management.

2.7 7:7E-5.3 Coastal Growth Rating - NWS-Earle is located in the North Shore Region within Monmouth County, a state designated Development Region.

2.8 7:7E-5.4 Environmental Sensitivity Rating - The proposed activity is located in a Moderate Environmental Sensitivity Area as depth to seasonal high water table is estimated to be between three and five feet. Proposed activity would result stabilization of the landfill slope by re-contouring and re-vegetation, thereby providing greater protection of groundwater.

2.9 7:7E-5.5 Development Potential - NWS-Earle has medium development potential, based on standards relevant to major commercial and industrial development potential, because direct access to waster water treatment is present and the proposed activity is located adjacent to existing commercial or industrial-like development.

2.10 7:7E-5.6 Definition of Acceptable Intensity of Development - Acceptable Intensity of Development is high.

2.11 7:7E-7.13 National Defense Facility Use Rule - The Site 6 Landfill slope stabilization at NWS-Earle represents maintenance of an existing Naval facility on land that is currently owned by the Navy.

2.12 7:7E-8.4 Water Quality - Implementation of the proposed improvements will have a direct benefit to water quality as slope stabilization will prevent potentially contaminated soils from entering adjacent wetlands and surface waters.

2.13 7:7E-8.7 Stormwater Management - The Site 6 Landfill improvements will not result in increased impervious surface. The proposed improvements are consistent with the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C. 2:90). Additionally, the proposed improvements will result in a reduction of pre-activity levels of total suspended solids and potential soluble contaminants in stormwater runoff.

2.14 7:7E-8.8 Vegetation - Site 6 Landfill improvements will involve re-vegetation of the stabilized slope. Appropriate native coastal species will be used to re-vegetate the site. Re-vegetation of the site will result in stabilization of the soil and a reduction in erosion and runoff.

2.15 7:7E-8.9 Buffers and Compatibility of Uses - Landfill improvements will involve planting appropriate vegetation with a net result of restoring buffer functions. These include maintenance of wildlife habitat, water purification, control of runoff and improved aesthetics.

3.0 DETERMINATION

This activity is not considered to be significantly adverse nor will it alter the future development use of quality of New Jersey's coastal resources. Its implementation will most likely improve the quality of New Jersey's coastal resources by preventing future soil erosion and potential migration of contaminants. The Navy has therefore determined that this project will be conducted in a manner consistent, to the maximum extent practicable, with the New Jersey's Coastal Zone Management Program.