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STORMWATER POLLUTION PREVENTION PLAN FOR EXCAVATION OF CONTAMINATED  
SOIL AT UNDERGROUND STORAGE TANK 7 NS MAYPORT FL

2/1/2006

TN & ASSOCIATES

# **STORMWATER POLLUTION PREVENTION PLAN**

**EXCAVATION OF CONTAMINATED SOIL  
AT UST 7  
NS MAYPORT, FLORIDA  
N62467-02-D-0483/013**



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## **1.0 SOIL EROSION SITE CONTROL PLAN**

Erosion and sediment controls will be installed as needed and approved by the COR prior to initiating intrusive activities. Such controls shall consist of silt fence, earthen berms, hay bale silt screens or the excavation of diversion ditches to prevent the migration of sediment and prevent surface water runoff movement within the work areas. The best plan of action shall be determined by onsite staff after reviewing site conditions. Silt fencing will remain on site until final re-vegetation is accepted by the COR. Erosion controls will be maintained for the duration of the contract period of performance. Any damage will be replaced immediately to prevent any release to the environment. Materials and services will meet the substantive requirements of the federal, state, and local requirements that govern the disturbance area stabilization and restoration. The requirements include, but are not limited, to the following:

- U.S. Environmental Protection Agency
  - EPA-430/9-73-007 – Process, Procedures, and Methods to Control Pollution Resulting from Construction Activity
- Federal Regulations
  - Section 402 of the Federal Water Pollution Control Act – Clean Water Act Amendments of 1986

During demolition/construction of the environmental protection controls equipment and vehicles will be prohibited from maneuvering on areas outside of dedicated rights-of-way and easements for construction. Damage caused by demolition/construction traffic to erosion and sediment control systems will be repaired immediately. TN&A will collect, store, haul, and dispose of spoil, silt, and waste materials in accordance with applicable federal, state, and local rules and regulations

### **1.1 Silt Fencing**

Pre-assembled silt fencing will be constructed of wooden or steel posts with a maximum spacing of 8 ft with a minimum height of 18 in. and a maximum height of 36 in. above natural ground. Filter cloth shall be made of a strong, rot-proof synthetic fiber, resistant to deterioration due to ultraviolet light and heat exposure. No additional fencing or wire backing is necessary. The fencing will have a strong tie cord in the top of the material. Low-porosity silt fence shall have a minimum tensile strength of 200 pounds (lb) (ASTM D1682 test procedure) with similar characteristics of Propex-Silt Stop, Mirafi 700x or Beltech 755. Silt fences will be installed per the manufacturer's recommendation in a minimum 6-inch deep trench in such a manner that surface runoff will percolate through the system in sheet flow fashion and allow sediment to be retained and accumulated. When joints in the silt fences are necessary, overlap the adjoining section a minimum of 6-in. and seal securely. Inspection of the sediment filter barrier systems will be done within 24 hours after a storm of 0.5 in. or more, daily during periods of prolonged rainfall, and at a minimum once each week. Repair or replacement of damaged sections will be done within 24 hours of noting the damage. Sediment deposits will be removed when silt reaches a depth one-third the height of the fence or when it reaches 6 inches, whichever is less.

## **1.2 Soil Berms**

Soils berms will be constructed as necessary with material from the approved borrow location, as directed by the COR. The soil berms will be constructed as necessary in accordance with Specification Section 02300. Inspection of soil berms will be performed within 24 hours after a storm event of 0.5 in. or more, daily during periods of prolonged rainfall, and at a minimum once each week. Repair of all damage to the soil berms will be done within 24 hours of noting the damage.

## **1.3 Dust Control**

Prior to the start of any intrusive or dust generating activities, an active dust control program that prevents the migration of dust from the project site will be initiated. This system will have in place a contingency to address potential problems that may arise during off-work hours. This dust control program will be approved by the COR prior to initiating excavation of contaminated soils.

Blowing dust will be controlled by using one or more of the following methods:

- Irrigation by water sprinkling.
- Erection of barriers using solid board fences, snow fences, burlap fences, crate walls, straw bales, or similar materials.

Dust control methods will be implemented immediately whenever dust can be observed blowing on the project site as a direct result of excavation activities; when personal, area, or perimeter monitoring instrumentation dictates; or when directed by the COR. Action levels have been established in the SSHP for implementation of dust controls.

Monitoring and dust control measures will be enforced by the SSHO. Health based dust monitoring performed during remedial action activities will aid in the dust control decision process. Chemical dust suppressants will not be used without prior written approval from the COR.