

N60201.AR.000799
NS MAYPORT
5090.3a

WASTE MANAGEMENT PLAN FOR EXCAVATION OF CONTAMINATED SOIL AT
UNDERGROUND STORAGE TANK 7 NS MAYPORT FL
2/1/2006
TN & ASSOCIATES

WASTE MANAGEMENT PLAN

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



Prepared for:

**Naval Facilities Engineering Command
Southern Division
Charleston, South Carolina**

Prepared by:

**T N & Associates, Inc.
3691 Palmetto Point Blvd. Suite 302
Myrtle Beach, SC**



FEBRUARY 2006

This Waste Management Plan (WMP) was prepared for the UST 7 Soil Removal at Naval Station Mayport, Florida. This WMP contains the methods and procedures that will be followed by T N & Associates, Inc. during the project relative to Waste Management practices at NS Mayport. All work will comply with the scope of work with respect to the execution; materials, workmanship, construction, finish, and project close out.

There are no known historical resources that will be impacted during the planned construction activities. Impact to in-place vegetation will be kept to a minimum. Areas that are impacted due to remediation activities will be returned to like condition during site restoration at the conclusion of remediation activities.

Table of Contents

	<u>Page</u>
Table of Contents	ii
I. Project Environmental Analysis	1
II. Environmental Controls – Sediment	2
III. Environmental Controls – Wastes	3
IV. Waste Disposal.....	4
V. Documentation.....	4
VI. Protection of Historical and Archaeological Resources	4

I. Project Environmental Analysis

The principle behind environmental protection is to prevent or minimize the impact of construction activities on human health and welfare and the environment. All remediation activities will be contained within the remediation area located within a fenced area with gravel and vegetated areas. The key to environmental protection on this project is isolating the work area to prevent erosion damage to the nearby area and maintaining control of project wastes. The designated remediation areas will be excavated to three feet deep by 85 feet wide and 415 feet long.

The specific types of wastes that T N & Associates, Inc. anticipates generating in each of these categories are:

Sediment

Soil and other debris may be eroded during remediation activities by water run off and/or wind erosion. Protective measures that will be taken as needed to maintain erosion control include minimization of vegetation disturbance, using gravel, silt fencing, straw/hay bails, diversion of rainwater sheet flow away from excavation areas, containment of all debris, and careful construction sequencing.

Solid Waste

Rubbish, debris, garbage, and other discarded solid materials, except hazardous waste as defined below, will be containerized on-site in dumpsters and/or trash receptacles for later disposal in a subtitle D - sanitary waste landfill. Generation of solid waste beyond the excavated soil is not anticipated. Hazardous Waste will be disposed of thru Waste Management. Minimal solid waste other than designated soils to be remediated will be generated during field activities.

Construction Debris

General debris and unsuitable fill materials will be transported off site as non-hazardous waste in dump bed trucks for disposal in a subtitle D – sanitary waste landfill. Generation of construction debris is anticipated to be minimal.

Recyclables

Recyclable materials such as plastic, metal scrap and suitable paper products will be segregated and transported to an appropriate recycling facility or collection center. Generation of recyclables is not anticipated to be encountered within the excavation areas.

Unused Construction Materials

If applicable, all construction materials will be stored in returnable condition. Unused materials will be returned for credit thereby minimizing the production of waste for disposal. Construction materials anticipated for this task order are expected to minimal and fully consumed during field activities.

Sanitary Waste

If applicable, sanitary wastes will be collected and stored on site in portable toilets. The tanks in these toilets will be pumped out on a weekly basis and the waste disposed of at a licensed wastewater treatment plant.

Hazardous Wastes

The contaminants on-site have been determined to be non-hazardous and in low concentrations. Hazardous wastes as defined by the Resource Conservation and Recovery Act, Toxic Substances Control Act or by state and local regulations may be encountered during excavation activities and such materials will be segregated from non-hazardous materials. Staging, documentation, transportation, and disposal of hazardous materials will follow all applicable regulations for the specific waste material. This material will be profiled prior to disposal based on previous assessment data and/or new analytical data. Due to the low levels and type of contaminants, it is anticipated that the wastes will be not be classified as hazardous.

Equipment Fluids

Mobile equipment will be utilized during this project. Liquids such as battery acid, petroleum lubricants, petroleum fuels, and ethylene glycol based antifreeze will be present in this equipment. All equipment shall be inspected daily and properly maintained to minimize the risk of rupturing a system containing these materials.

A spill response kit will be on-site during equipment operations and field crews will be instructed in appropriate spill response procedures. Should a spill occur, field crews will respond immediately with containment and cleanup and the Government will be notified as soon as reasonably possible. State of Florida requires notification if 25 gallons or more are released. Temporary fuel storage will not be facilitated at this project site. Any required fueling will be handled thru DOT rated field vehicle truck bed mounted transfer tanks and/or small quantity DOT containers (safety cans).

Major equipment maintenance shall not be performed on site and repairs (if needed) will be limited to only that which is absolutely necessary to safely remove the machinery from the site for more complete repairs. If repairs include the potential for release of equipment fluids, plastic sheeting, buckets, and other collection methods will be used to prevent release to the environment. The company performing the repair will be responsible for immediately removing any liquid waste resulting from repairs and for properly disposing of that waste.

II. Environmental Controls – Sediment

TN&A plans to retain all excavated materials within the footprint of the excavation that is not directly loaded into trucks as excavated. Some staging of excavated soils within the excavation may occur between truck arrivals and departures. Should site

conditions warrant and/or SOW changes occur the following describes control measures that will be implemented.

- Silt fencing and/or straw/hay bales will be installed as needed prior to excavation activities to protect surface water drainage features and roadways.
- Silt fencing and straw/hay bales will be maintained throughout construction to isolate disturbed work areas and effectively control any water and silt within the excavation zone.
- Surface water will not be allowed to flow into the excavation site. Surface water incursion into the work site will be prevented by use of silt fencing, straw/hay bales and diversion surface swales to control and divert natural sheet flow around the site. Placement of these control measures will be in such a manner as to facilitate natural flow across the site.
- Exposed excavated area will be minimized and backfill and compaction following as soon as possible to eliminate the potential release of silt and runoff.

III. Environmental Controls – Wastes

Solid waste will be picked up and disposed of in a contractor provided dumpster, roll-off, and/or rubbish cans/bags throughout the workday.

Construction excavation materials/debris will be placed directly into dump bed trucks. This material will be kept separate from solid wastes and will be maintained in a manner that minimizes worker risk from falling materials, tripping hazards, etc.

Recyclables will be segregated into rubbish cans or bags as they are generated.

Construction materials will be stored in a manner that protects them from wind, rain, or sun damage; ensures worker safety; and allows work to proceed in an efficient method. Construction materials that are deemed excess will be returned to the supplier at the earliest convenience to provide more space for work activities.

Sanitary wastes will be stored in holding tanks that are integral to the portable toilets.

It is anticipated that all of the contaminated soils from the NS Mayport site will be classified as non-hazardous waste and will be directly loaded into transporter's dump truck for shipment to the Waste Management disposal facility. However, if hazardous wastes are generated and require temporary storage prior to acceptance, a 90-day satellite accumulation area will be established and maintained in accordance with the Resource Conservation and Recovery Act as well as State and local regulations. All hazardous wastes will be staged or placed in properly labeled

containers that are approved for the specific waste material. Hazardous waste will be disposed of through Waste Management.

A site walk will collect any outstanding debris at the conclusion of each workday. No special controls or handling and storage precautions are expected for the wastes that will be generated during this project.

IV. Waste Disposal

All wastes will be disposed of in appropriately permitted facilities. Waste Manifests and shipping documentation (Bill of Lading) will be completed by TN&A and signed by NS Mayport ROICC designated personnel. The designated truck route to the project site will utilize NS Mayport road surfaces thru the Thomas Street gate or alternate gate as directed by NS Mayport. Trucks exiting the project site will reverse the route.

Excavation and loading equipment will remain within the immediate areas of work to prevent transfer of contamination from the remedial site to adjacent areas. Prior to haul trucks leaving the loading area they will be examined for and cleaned of gross materials on tires, exterior dump boxes, and chassis. Truck dump boxes will be covered prior to exiting the site. In like manner, excavation and loading equipment will be cleaned of gross materials prior to demobilization.

V. Documentation

TN&A will provide a copy of the permits for each disposal facility receiving waste from this project. These permit copies will be provided as part of the project closeout submittals package. A Transportation and Disposal Log will be maintained and submitted to the Government Representative at the end of each day in which loading and transportation to an off-site disposal facility occurs.

VI. Protection of Historical and Archaeological Resources

Remediation activities will carefully protect in-place historical resources and TN&A will immediately report to the Contracting Officer any historical, archaeological items or skeletal remains encountered during field activities. Upon discovery, work will stop in the immediate area of the discovery until directed by the Contracting Officer to resume work.