

**ITEM 04203.991210 M - EXCAVATION, SAMPLING, REUSE, TRANSPORTATION,  
AND DISPOSAL OF NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL**

**A. DESCRIPTION**

This work shall include the excavation, sampling, reuse, transportation and disposal of soil which is classified by Photo Ionization Detector (PID) monitoring (Special Specification Item 04203.991010 M) as non-hazardous petroleum contaminated. Non-hazardous petroleum contaminated soil is defined in NYSDEC's Petroleum Contaminated Soil Guidance Policy, detailed in Spill Technology And Remediation Series Memo #1 (STARS #1), issued August 1992. Temporary stock piling of contaminated soil is also included in this work.

**B. MATERIALS**

Six millimeter polyethylene sheeting and waterproof tarpaulins.

**C. EQUIPMENT**

None specified.

**D. CONSTRUCTION DETAILS**

All of the Contractor's operations shall be performed in accordance with all applicable Federal, State, County and local rules and regulations. The excavation of suspect soil shall be performed as follows:

1. Locations and Quantities

The locations where the existence of petroleum contaminated soil has been confirmed or is suspected to exist are identified in the contract documents. Other locations with visibly stained surface soils, subsurface soils surrounding leaking underground storage tanks, areas of past spill incidents, or exhibiting petroleum odors shall also be included as determined by the Engineer. The estimated quantity of non-hazardous petroleum contaminated soil is identified in the Special Note titled "Petroleum Contaminated Soil".

2. Pre-Excavation Activities

Prior to commencing excavation the contractor shall provide the following:

a. Health and Safety Plan

The Health and Safety Plan shall be prepared in accordance with, and is required by, Special Specification Item 04203.991010 M.

b. Waste Transporter and Disposal Facility Identification

Prior to commencing excavation the Contractor shall identify the NYSDEC permitted Waste Transporter that will transport the non-hazardous petroleum contaminated soils off-site. The Contractor shall also identify the RCRA Subtitle D permitted Beneficial Use Facility or RCRA Subtitle D permitted Sanitary Landfill Facility to which these soils will be shipped for disposal. The identified Waste Transporter and Disposal Facility shall be submitted to the Engineer for approval prior to excavation.

3. Excavation and Storage

All soils excavated, screened and classified as non-hazardous petroleum contaminated soil shall be either staged on-site or immediately placed in roll-off containers located on-site. Under no circumstances shall any of the excavated soil be transported off-site or be

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disposed of off-site prior to receipt of analytical results by the Contractor. Soil shall not be stored on-site for more than ten weeks.

If staged on-site, the excavated contaminated soil shall be placed on polyethylene sheeting (6 millimeter minimum thickness) within the Right-of-Way where adequate space is available and public health will not be jeopardized. The Contractor is responsible for confirming the final stock pile locations with the Engineer. If the Contractor opts to transport soil for storage within the project area, the hauler must have a NYSDEC Part 364 permit if the transportation will be through an active travel lane. All non-hazardous petroleum contaminated soil placed in roll-off containers or staged on-site shall be immediately covered with waterproof tarpaulins or polyethylene sheeting (6 millimeter minimum thickness). The Contractor shall implement all other actions necessary to prevent the migration of contaminants from the stored soil. The tarpaulins or polyethylene sheeting must be maintained in non-leaking condition or replaced as necessary, as determined by the Engineer, for as long as the soil is stored.

4. Excavation Limits

Excavation shall be kept to the minimum practical needed to perform the roadway and drainage work.

5. Site Restoration

Immediately following the excavation of non-hazardous petroleum contaminated soil, the Contractor shall complete the work for which the excavation is intended. The area shall be restored to the condition shown on the Plans and as directed by the Engineer.

6. Reuse

Soil at the sites identified as reuse sites in the Special Note titled "Petroleum Contaminated Soil" and classified as non-hazardous petroleum contaminated based on PID screening may be reused within the same excavation from which it originated. Every effort shall be made by the Contractor to reuse non-contaminated soil as backfill before using non-hazardous petroleum contaminated soil as backfill.

7. Sampling and Testing

The Contractor shall hire an independent firm experienced in waste sampling to provide trained personnel to perform soil sampling as described in this Special Specification. Samples shall be taken after the soil has been properly stock piled or loaded into roll-off containers. Samples are to be representative of the stored soil. No surface soil from the stock piled or containerized soil may be used. An appropriate number of samples shall be obtained, as required by the disposal facility.

The Contractor shall submit all samples to a NYSDOH approved laboratory for analysis. The laboratory analyses requested for the samples shall satisfy all disposal facility and NYSDEC requirements. The Contractor shall confirm prior to submitting samples for analysis that the proposed laboratory is acceptable to the proposed final disposal facility. All laboratory analytical results shall be provided to the Engineer immediately upon their receipt by the Contractor.

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8. Final Disposal

All excavated non-hazardous petroleum contaminated soil that is not reused shall be disposed of at the RCRA Subtitle D permitted Beneficial Use Facility or RCRA Subtitle D permitted Sanitary Landfill Facility approved by the Engineer. All such material shall be disposed of by the Contractor prior to project completion.

9. Documentation

The Contractor shall provide the Engineer with written documentation, as soon as it is available, from the approved waste transporter, beneficial use facility or sanitary landfill, verifying that all of the contaminated soil has been transported and disposed of in accordance with all applicable Local, State and Federal rules and regulations.

**E. METHOD OF MEASUREMENT**

This work will be measured as the total number of cubic meters of soil excavated from the areas identified in the contract documents, the Special Note titled "Petroleum Contaminated Soil" and as ordered by the Engineer, which is classified as non-hazardous petroleum contaminated based on PID screening (Special Specification Item 04203.991010 M). The Contractor shall be responsible for the cost of excavation, stockpiling, sampling, analysis, reuse, transportation, disposal and any other costs associated with excavation beyond the minimum practical needed to perform the roadway and drainage work, unless authorized by the Engineer.

**F. BASIS OF PAYMENT**

The unit price bid per cubic meter for this item shall include the cost of all labor, equipment, and materials necessary to complete the work, including the cost of any necessary permit or disposal fees. Excavation and disposal of soil which is classified by the PID screening as non-contaminated will be paid for under Item 203.02, Unclassified Excavation and Disposal.