

ITEM 203.9801--25 - EXCAVATION AND DISPOSAL OF CONTAMINATED SOIL
ITEM 203.9802--25 - SAMPLING AND LABORATORY ANALYSIS OF SOIL SAMPLES

1. DESCRIPTION:

- 1.01 This work shall consist of the excavation, stockpiling, sampling, testing, and disposal of contaminated soil and/or materials. The materials covered by this specification are soil/sediments that are potentially contaminated throughout the project site.
- 1.02 Furnish all materials necessary to excavate and dispose

2. MATERIALS:

- 2.01 Furnish all materials necessary to excavate and dispose of the material. As a minimum, furnish the following:
 - A. 20 mil minimum plastic sheeting for base of any stockpiles;
 - B. 6 mil plastic sheeting for covering of contaminated soil in any stockpiles;
 - C. Waterproof tarpaulins for covering of trucks/roll-offs used for material transport; and
 - D. Plastic construction barrier fence (orange) with posts.

3. CONSTRUCTION DETAILS:

- 3.01 **Excavation and Disposal of Contaminated Soil:** Throughout the construction process, whenever any potentially contaminated soils are encountered through visual and/or odor observation, or A.O.B.E., all related excavation shall cease and organic vapor monitoring shall commence.

A. Field Testing:

- 1. To conduct organic vapor monitoring, provide and operate field organic vapor test equipment: a Photo Ionization Detector (PID) or a Flame Ionization Detector (FID) capable of detection of 0.2 ppm general organic vapor levels. The PID/FID must be operated by a person thoroughly trained in sampling protocols, organic vapor monitoring procedures, and equipment calibration procedures.
- 2. Maintain and provide legible field notes to the Project Engineer indicating weather conditions, PID/FID readings, visual and odor observations, and quantities of soil excavated at each location.

B. Stockpiling:

- 1. Excavate contaminated materials and place in stockpiles. Material shall not be transported off-site until laboratory analysis has been received and excavated materials have been characterized for disposal.
- 2. Prepare the stockpile area by removing all large stones, roots, or other debris which may puncture the liner. Place stockpile on a minimum 20 mil plastic sheeting and cover by 6 mil minimum polyethylene sheeting to protect against leaching or runoff of contaminants into groundwater or stormwater. Weight or secure the sheeting by appropriate means and seal seams as approved by the Project Engineer to prevent tearing or removal by weather. Grade surrounding surface to provide for positive drainage away from the pile. Maintain covering and grading for as long as stockpile exists. Storage must not exceed 30 days, unless approval is obtained from the Project Engineer.

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3. CONSTRUCTION DETAILS: (cont'd)

3.01 Excavation and Disposal of Contaminated Soil: (cont'd)

B. Stockpiling: (cont'd)

3. Soil placed in trucks or roll-offs must be covered with waterproof tarpaulins. Secure the tarpaulin and maintain the cover throughout storage and transport. Any soil moved off-site or transported through an active lane must be in NYSDEC Part 364 permitted vehicles.

3.02 Sampling and Laboratory Analysis of Soil Samples:

- A. Sampling shall be conducted by a person thoroughly trained in sampling protocols using standard accepted sampling practices that are representative of the pile. Collect representative composite samples of the soil from each pile from a depth of greater than one (1) foot within a stockpile. Include, at a minimum, four (4) sample points for each composite sample and one (1) composite sample for every 65 cubic yards of soil or as directed by the Project Engineer.
- B. Analyze all samples for the parameters and by methods listed in NYSDEC's TAGM (Technical Administrative Guidance Memorandum) #4046. Additionally, samples should be analyzed for parameters and by methods listed in NYSDEC's Regulation 6NYCRR Part 371, Section 371.3(e). The laboratory performing the analysis must be certified by the New York State Department of Health Environmental Laboratory Approval Program (ELAP).

3.03 Transportation Off-Site:

- A. The Contractor is responsible for obtaining all permits and manifest necessary to transport the material.
- B. Cover roll-offs and trucks with waterproof tarpaulins to prevent run-off or evaporation of contaminants and blowing of soil.
- C. Do not combine contaminated material from any other source with materials from Project site.

3.04 Disposal:

- A. Do not dispose of any material prior to the receipt and acceptance of laboratory results by the Project Engineer.
- B. The Contractor shall provide an acceptable waste transporter and an acceptable facility, including addresses, telephone numbers, and contact personnel. The Contractor shall also supply the Facility EPA Identification number and the Facility location.
- C. The Contractor shall be responsible for ensuring that the facility is properly permitted to accept the contaminated soil for acceptance of material at the approved facility.
- D. The Contractor shall obtain any and all necessary permit authorizations for waste to be transported from the site to the treatment/disposal facilities. **Note:** Any contaminated soil, as determined by the Project Engineer, moved off-site or transported through an active lane must be in NYSDEC Part 364 permitted vehicles.

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4. METHOD OF MEASUREMENT:

- 4.01 **Excavation and Disposal of Contaminated Soil:** The quantity shall be measured in cubic yards as computed in the original position or, if appropriate and ordered by the Project Engineer, in stockpiled position.
- 4.02 **Sampling and Laboratory Analysis of Soil Samples:** The quantity shall be measured as the actual number of samples collected and analyzed as directed by the Project Engineer. The delivery of proper documentation of analytical results to the Project Engineer will be required for payment.

5. BASIS OF PAYMENT:

- 5.01 **Excavation and Disposal of Contaminated Soil:** The unit price shall include the cost of furnishing all labor, materials, equipment, transportation, stockpiling, loading, disposal, cleanup of spillage, and any other incidentals necessary to complete the work.
- 5.02 **Sampling and Laboratory Analysis of Soil Samples:** The unit price shall include the cost to sample, transfer, test (for multiple constituents), document, and provide test results to the appropriate parties. Payment for each sample will be made when the Project Engineer receives all test results for that sample.