

ITEM 10203.0105 M - SEGREGATION, MANAGEMENT AND STORAGE OF CONTAMINATED SOIL

DESCRIPTION

Manage, segregate and store contaminated soil as identified on the plans, as identified by the Engineer-in-Charge (EIC) and/or as determined by previous work included in the Contract. The materials covered by this specification are soils that are contaminated with petroleum products, organic compounds, metal(s), and/or other chemicals. The soil contamination may include, but is not limited to: petroleum products, lead, chromium, benzene, and/or contaminants associated with past Manufactured Coal Gas Plant (MGP) operations. Petroleum product, if present, may include, but is not limited to: gasoline, heating oils, diesel fuel, kerosene, jet fuel, lubricating oils, motor oils, greases, and other fractions of crude oil. Determination of the regulatory classification of the soils as either non-hazardous or hazardous wastes for disposal requirements will be either as predetermined in investigations performed in advance of excavation or from testing subsequent to this work. Analytical results of previous investigations that New York State Department of Transportation (NYSDOT) has conducted are available to the Contractor.

MATERIALS None Specified

CONSTRUCTION DETAILS

I. Regulatory Compliance - Conduct all tasks associated with these items in accordance with all Federal, State, County, and local regulations including, but are not limited to:

- A. 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response
- B. 29 CFR 1926.62 - Lead in Construction (if lead is present at levels of occupational exposure concern)
- C. 6 NYCRR 360 - Solid Waste Management Facilities

II. Advance Preparation: The lead times for submittals included in these Construction Details are for work that is included in the original project contract where the contaminated soil is expected. For work that was not included in an original project contract resulting from unexpected encountering of contaminated soil which does not allow for indicated lead times, the time frames for submittals and notifications will be negotiated at the time of the agreement for this work.

A. Material Handling Plan - At least 30 days prior to commencing work in the potentially hazardous waste contaminated areas, prepare and submit a Material Handling Plan (MHP) to the Engineer-in-Charge (EIC) and the Department Regional Landscape Architecture Environmental Services Unit for review and acceptance. The Plan must be accepted by the EIC prior to the commencement of work within the defined areas. The MHP shall outline work practices to address public and worker health and safety protection and shall address all activities associated with handling contaminated soil in the project including any subsequent work such as disposal activities if included in this contract. Include, at a minimum, but is not limited to, the following:

Written procedures detailing the operations included in the project involving contaminated soils including excavation, segregation, staging, transportation, and disposal. The MHP information shall be prepared in accordance with Section 107-05A of the Standard Specifications as amended and in accordance with OSHA regulation 29CFR part 1910.120 and shall include, at a minimum, the following: name and address of the MHP preparer; site name description and map; location of any intended stockpiles; description of work; hazardous substance evaluation - types of chemicals; hazard assessment - physical and toxic effects; monitoring procedures and action levels; key personnel; training (list OSHA training (at least one person on site shall have supervisor training as per 29CFR1910.120 (E) (4)); personal protective clothing (PPC) and

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personal protective equipment (PPE); decontamination of personnel and equipment and disposal of PPC and PPE; general and site-specific safety rules; emergency procedures; emergency contacts and phone numbers; and directions to the hospital (with map). Procedures must include construction personnel and public safety and health as well as environmental protection considerations.

B. Notifications - At least 10 days prior to beginning the work, provide the EIC with the anticipated scheduled dates and work locations for excavation of potentially contaminated soil. Also at least 10 days prior to beginning the work, contact the applicable regional New York State Department of Environmental Conservation (NYSDEC) Spill Office and local fire department in writing and provide them with the scheduled dates for excavation, handling, and disposal of all contaminated materials and any intended stockpile locations. Provide a copy of this correspondence to the EIC.

III. Segregation and Stockpiling:

A. Stockpile soil that is identified as preliminarily contaminated. The locations where contaminated soils are potentially present are as indicated on the plans, as identified by the Engineer-in-Charge (EIC) and/or as determined by other work included in the Contract. If general areas of apparently highly contaminated soil and apparently marginally contaminated soil exist, segregate the apparently highly contaminated soils from the marginally contaminated soils as feasible and as directed by the EIC. Contaminated soil may be placed in stockpiles or into trucks or rollofs as follows:

1. Stockpiles - If stockpiles are used, prepare and maintain in the following manner:
 - i. Stockpile Location Preparation - Prior to stockpiling,
 - (1) Clear the stockpile location of all large stones, roots or other debris which may puncture the liner.
 - (2) Grade the location to provide for positive drainage away from the stockpile.
 - (3) Place a minimum of 10 mil or equivalent plastic ground cloth and seal all the seams for the base of the stockpile to protect against leaching into the ground water
 - (4) Stockpile locations must be within the right-of-way and must be approved by the EIC.
 - ii. Stockpile Protection
 - (1) The stockpile shall be covered by a minimum of 6 mil polyethylene sheeting
 - (2) The sheeting shall be weighted or secured by appropriate means to prevent tearing or removal by weather.
 - iii. Maintain the covering and grading for as long as the stockpile exists. Storage shall not exceed 30 days of stockpiling or 30 days from the results of necessary laboratory analysis, whichever is later, unless additional time is approved by the EIC.
2. Trucks or rollofs - If soil is placed in trucks or rollofs,
 - i. Cover with waterproof tarpaulins. Secure tarpaulins throughout the duration of the storage.
 - ii. Soil can not be moved off site unless it is transported in NYSDEC Part 364 permitted vehicles. Any hazardous waste soil must be manifested and transported only to permitted hazardous waste facilities.

Do not mix contaminated material with soils that are determined to be non-contaminated. Notify the EIC immediately of any soil that appears to contain unknown contaminants or that varies significantly from the material originally identified.

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B. Institute appropriate procedures and security measures to ensure the protection of site personnel and the public from contaminated materials.

METHOD OF MEASUREMENT The quantity shall be measured by the number of metric tons of soil managed and handled as potentially contaminated soil in accordance with the methods and procedures described in the MHP. (If subsequent disposal methods do not allow for measurement of the contaminated soil by weight, a conversion factor of 1.7 metric tons/cubic meter shall be assumed.)

BASIS OF PAYMENT The unit price shall include the cost of furnishing all labor, materials, equipment, stockpiling, and any other incidentals necessary to complete the work. Any additional costs incurred by the Contractor for excavation work in contaminated soil shall be included in this item; excavation of all soils will be paid for under Section 203 of the Standard Specifications.

Payment will be made under:

ITEM NO.	ITEM DESCRIPTION	PAY UNIT
10203.0105M	SEGREGATION, MANAGEMENT AND STORAGE OF CONTAMINATED SOIL	METRIC TONS

DISAPPROVED BY E107-034