

**ITEM 05202.0226 M - CONTAMINATED AND HAZARDOUS WASTE MATERIAL
REMOVAL**

DESCRIPTION

This work shall consist of the removal, characterization, transportation, and disposal of all contaminated materials and hazardous waste from locations indicated in the plans or as directed by the Engineer. Types of waste to be removed include, but are not limited to: waste paint, automobile batteries, used/unused solvent and fuels, mercury-containing items, propane tanks, refrigerants, waste oil, TV/video display monitors, fluorescent lamps and containers of unknown liquid substances. All hazardous and specialty regulated materials for removal and disposal will be included in this item unless a specific item is otherwise included for their disposal elsewhere in the contract.

MATERIALS None specified

CONSTRUCTION DETAILS

The site(s) where material is to be removed is as indicated on the plans or as ordered by the Engineer.

All potentially contaminated or hazardous materials must be properly characterized and recycled or treated/disposed of in accordance with Section 107-10 - *Managing Surplus Material and Waste* of the Standard Specifications and all applicable regulations including but not limited to 49 CFR 100 to 179, 40 CFR 260 to 272, 6 NYCRR Part 360, 6 NYCRR Part 364 and 6 NYCRR Parts 371-376. The Contractor is responsible for choosing appropriate disposal facilities and identifying those facilities to the Engineer. In addition, the Contractor is responsible for all sampling and analyses requirements specified by the receiving disposal or recycling facilities.

Drums and Containers with Unknown Substances: Contents of the drums must be sampled and characterized prior to disposal. Contents of the drum must not be mixed with any other materials until contents are positively identified.

Empty Drums and Containers: Drums and containers that have had all of the contents removed by common practices and have less than 25.4 mm (1") and less than 3% of the original product are considered "empty" and non-hazardous even if the material they contained classified as hazardous. "Empty" containers may be returned to the manufacturer or sent to a reconditioner or handled as scrap metal, cardboard, etc. and are exempt from waste transporter requirements when destined for such reuse. "Empty" containers are nonhazardous industrial waste when otherwise disposed.

Lead Batteries: NYS law requires retailer/distributors to accept used automotive/truck/RV batteries back for recycling at no charge (two per month maximum without new battery purchase).

Mercury: Any mercury containing equipment including, but not limited to, thermostats, switches, thermometers, and fluorescent lamps are hazardous wastes due to the mercury toxicity characteristic and must be removed from the equipment and disposed of as hazardous waste in accordance with 6 NYCRR part 371. Thermostats and lamps may also be handled in accordance with the alternate requirements for universal hazardous wastes, 6NYCRR Subpart 374-3.

Paint: Most unused paints, including waterborne, have a flashpoint below 140° F and therefore require handling and disposal as ignitable waste (D001). Potential also exists for the waste to have a toxicity characteristic for lead (D008) and chromium (D007).

ITEM 05202.0226 M - CONTAMINATED AND HAZARDOUS WASTE MATERIAL REMOVAL

PCB (Polychlorinated Biphenyl) Ballasts in Fluorescent Lamps: Some older fluorescent lamp (light) fixtures have ballasts that contain PCBs which must be disposed of as a PCB hazardous waste.

Refrigerants: Refrigerants from air conditioning and refrigeration units containing regulated chlorofluorocarbons [CFCs] and hydrochlorofluorocarbons [HCFCs]-refrigerants must be removed from the equipment and recycled in accordance with EPA regulation, 40 CFR Part 82, Subpart F, ensuring proper removal from the units by an EPA certified technician using certified equipment.

Solvents (paint thinner) and Fuels: Solvents and fuels typically have a flashpoint below 140° F and therefore require handling and disposal as ignitable hazardous waste (D001). Fuels may be contained within equipment and require removal prior to disposal.

TVs/Video Display Monitors - Cathode Ray Tubes (CRTs): CRTs are the video display components of televisions and computer monitors. CRT glass typically contains enough lead to be classified as hazardous waste when it's being recycled or disposed of and as such must be handled as hazardous waste.

Used Oil: Used oil that is destined for recycling or burning for energy recovery is not regulated as a hazardous waste. Examples of used oils include: spent motor oil, hydraulic oil, cutting oil, transmission fluid, fuel oils, and greases. The used oil should be sent to an authorized recycler or fuel blender using a permitted waste hauler.

SUBMITTALS

Materials Handling Plan

Within 30 calendar days after the contract is awarded, the Contractor shall submit to the Engineer for review and approval, a Materials Handling Plan. The Materials Handling Plan must be approved in writing by the Engineer prior to the Contractor's commencement of work within the defined areas. The Materials Handling Plan shall, at a minimum include:

- Detailed written procedures to be used to load and transport the materials to conveying vehicles.
- An outline of the Contractor's intended methods for, transportation, recycling and/or disposal as applicable. This will include:
 - The method of recycling or treatment/disposal that will be used.
 - Identification of and information on the Contractor's proposed off-site recycling or treatment/disposal facility(s) with the following information: facility name, address, responsible contact person(s) and a copy of each disposal facility's current operating permit that indicates both the type of materials allowed and not allowed for final disposal.
 - A signed letter of agreement from each facility to accept the waste as specified in the contract, listing of all permits, licenses, waste transporter permits (and any permits from any other states as necessary) authorizing the shipment of wastes of this description to the designated facility as they pertain to this Contract. The letter must also clearly state the facility's requirements for any sampling and analysis of the waste prior to disposal

**ITEM 05202.0226 M - CONTAMINATED AND HAZARDOUS WASTE MATERIAL
REMOVAL**

- Identification of and information on the Contractor's proposed waste transporter to include: name, address, telephone number, responsible contact, NYS Waste Transporter ID number, and any and all necessary permit authorizations for the waste anticipated to be transported from the site(s) to treatment/disposal facilities.

Off Site Transportation

The Contractor shall verify and document that the transporter has a current waste transporter's permit authorizing the transport of the project waste streams to the intended final disposal facility(s) subject to the approval of the Engineer. The Contractor shall coordinate all shipments and arrivals at the disposal facility to meet project schedule requirements. The Contractor shall complete any required shipping papers / manifests, placarding, and weighing / load measurements and provide documentation / copies to the Engineer.

The Contractor shall ensure that trucks that are used to transport any materials during the project protect against contamination to the environment. This will be accomplished by properly covering and lining the trucks with compatible material and/or by decontaminating them prior to any use other than hauling contaminated materials. The Contractor shall verify that any trucks/tankers used to transport liquid or materials are not leaking.

The Contractor will use only the transporters listed in the Materials Handling Plan. The Contractor must obtain written approval of the Engineer prior to any change in the use of listed transporters.

The Contractor shall not combine contaminated materials from other projects with materials from the Project Site(s).

Disposal

The Contractor shall ensure that materials are transported to the intended facility(s) listed in the Materials Handling Plan. If the Contractor desires to transport materials to a facility other than the ones listed in the Materials Handling Plan, written approval from the Engineer must be obtained prior to any work.

METHOD OF MEASUREMENT

Payment for Material Removal from the site(s) will be made on a lump sum basis for materials properly removed and disposed of. Progress payments will be made in proportion to the amount of work done as determined by the Engineer.

BASIS OF PAYMENT

The lump sum bid for Contaminated Materials and Hazardous Waste Removal from the site(s), shall include the cost of all equipment, labor, materials, disposal fees, other fees, permits, taxes and incidentals necessary to complete the work.

Payment will be made under:

ITEM NO.	ITEM DESCRIPTION	Pay Unit
05202.0226 M	Contaminated and Hazardous Waste Removal	Lump Sum