

**ITEM 07203.9720 M - Collection, Handling, Testing & Treatment or Disposal of Hazardous / Contaminated Liquids**

**Description**

A. General

This work shall consist of the collection, handling, testing, and treatment or disposal of potentially hazardous or contaminated liquids, generated by the bridge foundation preparation & demolition. The contaminated liquids include the impounded river water at the piers, as well as any liquids generated by remediation processes.

The Contractor has the option to mitigate/manage the contaminated water by either off-site disposal or on-site treatment. Treatment on-site will require a detailed Water Quality Management Plan, to insure the discharge meets water quality standards. The treated water can not be discharged directly into the river; it must be impounded and tested post treatment, prior to release.

No de-watering of the Cofferdam or Caissons is allowed during the excavation / dredging work. The Contractor must excavate & extract the material underwater. During extraction and transfer from the Cofferdam or Caissons, the Contractor must capture & handle all fugitive liquids and suspended solids generated.

After excavation & extraction, the impounded water must be pumped out of the Cofferdam and Caissons at the same rate as the tremie concrete placement.

The Contractor shall supply all equipment, material, and labor required to collect, pump, store, and either treat or dispose all hazardous or contaminated liquid. The Contractor must bid this work in conjunction with & in the context of the *Potentially Hazardous Waste disposal work.* The scope of work may be affected by the method of waste handling (shipping containers, on-site stockpiles, de-watering slurry materials, air lifting, etc.). The impact to staging, scheduling & the generation of additional liquids must be incorporated into this work item.

The Contractor shall handle all contaminated liquids in a responsible manner to protect site personnel, the public, and the environment in accordance with all applicable federal, state and local laws and regulations.

Work activities in the river and discharge from on-site treatment (if applicable) are restricted as per the Corps of Engineers 404 and Section 10 Permit conditions, the NYSDEC SPDES Permit &/or Water Quality Certification and as noted in the Plans and Proposal.

All work performed within this project site must follow the stipulations contained and paid for under the *Hazardous Materials Safe Operating Procedures* item. In that specification, the Site Specific Health and Safety Plan (SSHASP), monitoring, protection and other requirements are identified. Those requirements and how they interact with these items of work, must be incorporated in the overall work plan.

B. Regulations

The Contractor shall ensure that all operations associated with the handling, loading, transportation, and treatment/disposal of contaminated liquids are in compliance with all applicable Federal, State, and local regulations, including New York State Department of

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Environmental Conservation (NYSDEC) regulations. The applicable regulations include, but are not limited to:

- a. 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.
- b. 40 CFR 761, Subpart D - Polychlorinated Biphenyl (PCBs) Storage and Disposal.
- c. 49 CFR 100 to 180 - DOT Hazardous Materials Transport and Manifest System Requirements.
- d. 6 NYCRR 371 - Identification and Listing of Hazardous Waste.
- e. 6 NYCRR 372 - Generator and Manifest Requirements and Transportation of Hazardous Waste.
- f. 6 NYCRR 373-1 through 373-3 - Hazardous Waste Facilities Standards and Permitting Requirements.
- g. 6 NYCRR 364 - Waste Transporter Permits.
- h. 6 NYCRR Part 376 - Land Disposal Restrictions
- i. 6 NYCRR Part 703 - Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations
- j. TOGS- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)
- k. Water Quality Certification requirements for water discharge as per the NYSDEC SPDES (State Pollutant Discharge Elimination System) Permit.
- l. Other local restrictions on transportation, treatment and discharge of waste waters.
- m. Posted weight limitations on roads and bridges.

I. Definitions

1. Pier Foundation Design

For the purposes of this Specification, the following nomenclature is used.

- a. Cofferdams: A steel sheet piling shell installed in the relative shape of the piers & filled with tremie concrete, as shown on the Plans.
- b. Caissons: A group of circular steel caissons installed in a specific pattern & filled with tremie concrete, as shown on the Plans. The specification items may refer to Caissons, Bored-In-Place Piles or Drilled Shafts.

2. Work Areas/Zones.

The following work areas/zones are referenced in this Specification. The exact locations and boundaries are to be further identified by the Contractor in the MHP.

- a. Contaminated Zone / Exclusion Zone (or hot zone): The area with actual or potential contamination and the highest potential for exposure to hazardous substances. This includes the River Proper and may include areas where hazardous/contaminated materials are stored/stockpiled, as determined by the Certified Industrial Hygienist (CIH).
- b. Contamination Reduction Zone (or warm zone): The transition area between the exclusion and support zones. This area is where decontamination activities will take place and personnel will enter and exit the exclusion zone.
- c. Support Zone (or cold zone): The area of the site that is free from contamination. This area may be safely used for planning and staging/storing materials that are not contaminated.
- d. River Proper: This is the area along the river (& under the river), graphically defined on the Plans, that is potentially contaminated to Hazardous or Contaminated levels, based on previous sampling.
- e. River Corridor: The limits of EPA Jurisdiction from the top of river bank to the top of river bank, as graphically depicted on the Plans.

3. Contaminated Liquid Classifications

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- a. On-Site Treatment: All liquids handled on-site that will be returned to the River must meet all applicable SPDES &/or 401 water quality standards. Only (clean) treated water, as defined by the standards, may be released into the river.
- b. Off-Site Disposal: The liquids generated on this project will be classified as a non-hazardous industrial waste or as a hazardous waste if testing indicates contamination above hazardous waste regulatory levels and shall be disposed of accordingly. Payment for disposal will be made on a lump sum basis regardless of classification.

**Materials**

Contaminated liquids shall be placed and stored in liquid tight, suitable containers.

The Contractor shall assure that the waste hauler's appropriate choice of vehicles and operating practices shall prevent spillage or leakage of contaminated material from occurring en route.

The Contractor shall provide, install and maintain any temporary loading facilities on-site as required, until completion of material handling activities. The locations and design of any facilities shall be included in the MHP.

**Construction Details**

A. Submissions, Notifications & Permits

1. Site Specific Health and Safety Plan (SSHASP)

The Contractor shall submit to the Engineer for his review & approval, the SSHASP, as per the ***Hazardous Materials Safe Operating Procedures*** item, at least 30 days prior to commencing any work in the suspected contaminated areas of the project. The Contractor may not commence work in these areas until the SSHASP is approved by the Engineer.

2. Material Handling Plan (for removal, transport & disposal at off-site facilities)

The Contractor shall submit to the Engineer for his review & approval, a Material Handling Plan (MHP), at least 30 days prior to commencing any work in the suspected contaminated areas of the project. The Contractor may not commence work in these areas until the MHP is approved. The MHP shall, as a minimum, consist of:

- a. The Contractor's procedure for safely handling contaminated water (including wastewater from the decontamination areas) and other contaminated liquids.
- b. Location and design of the Contractor's on-site staging areas for temporarily holding hazardous/contaminated liquids, including an explanation and layout of the Exclusion Zones, Contamination Reduction Zones, and Support Zone.
- c. Identification of the Contractor's proposed waste transporter(s), including a commitment letter(s) from properly licensed and insured hauler/transporter(s). This information shall include:
  1. Name and EPA identification number
  2. Address
  3. Name of responsible contact for the hauler
  4. Telephone number for the contact
  5. List of types and sizes of all transport vehicles and equipment used.
  6. A description of proposed vehicle type, transportation methods and procedures for hauling contaminated water

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7. Any and all necessary permit authorizations for transporting contaminated water
  8. Previous experience in performing the type of work specified herein.
- d. Information on the Contractor's proposed treatment/disposal facility for disposal of contaminated water. Information shall include the following items:
1. General Information:
    - a. Facility name and EPA identification number
    - b. Facility location
    - c. Name of responsible contact for the facility
    - d. Telephone number for contact
    - e. Unit of measure utilized at facility for costing purposes.
  2. A listing of all permits, licenses, letters of approval, and other authorizations to operate, which are currently held and valid for the proposed facility as they pertain to receipt and management of wastewater derived from this Contract.
  3. Letters from the intended facilities stating that the Facility has agreed to accept the wastewater, is authorized to accept such wastewater under the laws of the State of residence, has the required capacity to treat and dispose of the waste, and will provide or assure the ultimate disposal method indicated on the Hazardous Waste Manifest.
- e. The names, address, and telephone number of the contact for the Contractor's proposed chemical test laboratory. The laboratory must be ELAP certified by the NYSDOH.
- f. The name and experience of the Contractor's sampling technician.

3. Water Quality Management Plan

The Contractor shall submit to the Engineer for his review & approval, a Water Quality Management Plan (WQMP), at least 30 days prior to commencing any work in the suspected contaminated areas of the project. The Contractor may not commence work in these areas until the WQMP is approved by the Engineer. The WQMP shall detail the intended procedures for handling liquids and shipping them off-site or treating & discharging them on-site. It shall also address the impact of in-water activities on the River water quality. As a minimum, the WQMP shall include:

- a. The Contractor's procedure for safely collecting, pumping, handling & storing contaminated water (including wastewater from the decontamination areas) and other contaminated liquids. Safeguards to prevent &/or collect spillage/leakage of contaminated liquids must be addressed.
- b. Location and design of the Contractor's on-site staging areas for temporarily holding hazardous/contaminated liquids, including an explanation and layout of the Exclusion Zones and Contamination Reduction Zones, and Support Zone.
- c. The procedure for controlling the quality of the River water as impacted by in-water construction activities and wastewater discharge\*. Testing for water quality shall be progressed under the ***Water Quality Monitoring*** item.
- d. The name & experience of the sampling technician.
- e. The name, address, phone number, & contact person of the proposed testing laboratory. The laboratory must be ELAP certified by the NYSDOH.

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- f.\* The proposed water treatment equipment & processing method. The Contractor shall provide the operating parameters of the system . The allowable loading rates, sequencing, storage volume & discharge method must be identified. The Contractor shall certify that the treatment system is sized and designed for the project needs.
- g.\* The quality control /quality assurance plan for water quality sampling, testing, & process control of the on-site treatment. The name & experience of water treatment operator .
- h.\* The proposed method & procedure for the handling & disposal of spent filter media & accumulated sediment generated during treatment.

**\* applicable only if on-site treatment is proposed.**

4. NYSDEC Notification

The designated representative from NYSDEC must be notified at least five working days prior to handling or removal of contaminated materials.

5. Utilities

The Contractor shall obtain clearance from local utility companies prior to the commencement of excavation activities.

6. Permits

The Contractor is responsible for ensuring that all applicable permits are obtained prior to commencing work and that all permit conditions are met & followed.

B. General

All work performed under this item shall follow the prescribed measures outlined in the ***Hazardous Materials Safe Operating Procedures*** item & as defined by the CIH. It includes, but is not limited to: SSHASP, Training, Medical Monitoring, Air Monitoring, Decontamination of Equipment, Decontamination Facilities, Personal Protective Equipment, Site Delineation/ Security, Cleaning Concrete Surfaces, Management of Contaminated Sediments and the Management of Liquids.

C. Staging & Mobilization / Preparation

The various staging areas, Exclusion Zone, Contamination Reduction Zone, & Support Zone shall be established for each pier location.

All existing ground along the river within the River Proper, as designated on the Plans, shall be considered potentially hazardous. Any fluids obtained within the River Proper shall be considered potentially hazardous unless otherwise verified by testing.

D. Collection, Handling & Storage

The Contractor shall collect, pump, transfer, & store all contaminated liquids extracted from the River. This includes de-watering of the Cofferdam or Caissons and all liquid waste generated by the remediation activities.

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The Contractor shall excavate & extract the overburden material from the Cofferdam & Caissons while underwater. The Contractor shall erect a capture system in the immediate vicinity of the Cofferdam and Caissons to collect all fugitive liquids & /or solids lost during the excavation/ dredging operations. The Contractor shall design the capture system of sufficient size to handle the estimated volume of spillage /over spray (or total extraction if applicable) & provide a method to transfer these contents, as detailed in the MHP &/or the WQMP.

The materials extracted from the Cofferdam or Caissons will be transferred in semi-solid &/or slurry form to an on-site storage container or stockpile for de-watering & testing. The drain water generated by this operation must be collected and transferred as detailed in the MHP &/or the WQMP.

The Contractor is advised that certain methods of extraction (air-lifting, core water, flushing, etc.) will generate additional volumes of fluids, that must be disposed of or treated. No separate payment will be made for additional fluids introduced into the operation.

After the overburden has been removed & the rock foundation has been prepared & approved, the Contractor may begin placing the tremie concrete. The impounded water shall be pumped out of the Cofferdam or Caissons, at the same rate as the tremie concrete placement. The displaced contaminated water shall be transferred as detailed in the MHP &/or the WQMP.

The wastewater generated by on-site decontamination activities (equipment & materials) & any other remediation activities shall be captured, collected & transferred for treatment or disposal.

All contaminated liquids must be transferred to either storage containers, tankers or on-site storage tanks. Storage containers shall be waterproof and may be stationary or mobile. Tankers shall be waterproof & meet EPA hazardous waste transporter requirements. All temporary storage tanks erected on-site shall use an impermeable membrane and have sufficient storage & freeboard to contain the anticipated liquid generated during extraction and be protected from the elements by a suitable cover. The method of transfer shall be detailed in the MHP &/or the WQMP.

**E. Off-Site Disposal or On-Site Treatment**

The Contractor shall mitigate/manage the contaminated liquids by either off-site disposal (Option A) or on-site treatment (Option B), or a combination of the two. The Contractor shall specify the method via the MHP &/or the WQMP submissions. Any changes to the mitigation method(s) shall be approved by the Engineer through re-submission of the MHP &/or the WQMP. The following requirements shall be met for each method of mitigation:

**1. Option A: Off-Site Disposal**

**a. Testing**

**1. General**

General characterization of the sediments/soils, that are in contact with the river water & are within the work area, is based on previous sampling done for or by NYSDOT. This information will be used by NYSDOT to obtain the Hazardous Waste US EPA Identification Number, prior to the work. On-site sampling is required to determine & quantify the actual contamination levels present in wastewater resulting from construction activities in proximity to the contaminated sediments/soils.

**2. Sampling**

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The Contractor shall sample the storage containers in accordance with the following procedures and the NYSDEC regulations. The quality of the sampling program and all data generated shall be the responsibility of the Contractor. The Contractor shall furnish personnel, equipment, and instruments necessary for the implementation of the sampling program.

All sample containers shall be marked and identified with legible sample labels and shall indicate the project name, sample location and/or container, the sample number, the date and the time of sampling, preservatives utilized and other information that may be useful in determining the character of the sample.

The Contractor shall maintain a Chain of Custody sample log book. The Contractor shall provide the Engineer access to it at all times and shall turn it over to the Engineer in good condition at the completion of the work. The following information as a minimum shall be recorded in the log:

- a. Sample Identification Number
- b. Sample Location
- c. Field Observations
- d. Any Field Parameters such as pH, Temperature, and Specific Conductivity if Measured
- e. Sample Type
- f. Analyses
- g. Date/Time Collection
- h. Collector's Name
- i. Sample Procedures and Equipment Utilized

All equipment involved in field sampling activities shall be decontaminated prior to sampling, after use and before demobilization from the project area.

The number and frequency of samples shall be based on the requirements of the receiving facility, but shall include at least one representative composite sample from each discrete wastewater point. One quality assurance sample will be taken for every 5 samples.

The Contractor shall be responsible for transporting the samples to the designated laboratory, within the same day they are taken.

3. Analysis

The chemical analysis shall be performed by a laboratory certified by the New York State Department of Health Environmental Laboratory Approval Program as technically acceptable. The laboratory selected by the Contractor shall be named in the MHP.

The chemical analysis is required on a priority turn around schedule. The chemical analysis shall be done by a laboratory within 24 hours of receipt of the samples. The laboratory results shall be available to the Contractor within 48 hours from when the samples were taken.

testing regimen required by the disposal facility. As a minimum, a representative sample must be analyzed for the following:

- a. **Polychlorinated Biphenyls (PCBs) Total Concentration** by EPA Method 8082.
- b. **Extractable (TCLP) RCRA Metals** by EPA Method 6010/7000 conducted on the Toxicity Characteristic Leaching Procedure (TCLP) extract as prepared by EPA Method 1311.

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4. Notification of Test Results

The Contractor shall provide the laboratory test results to the Engineer, prior to shipment of any liquid waste.

5. Waste Classification

The Engineer shall classify the liquid waste as hazardous or non-hazardous based on the test results.

The disposal of the liquid will be according to the respective classification, except liquid that meets the water quality standards may be released back into the river using the procedure noted in section E.2. c.&d ( see Option B: On-Site Treatment).

b. Transport

The Contractor shall only use the transporter(s) identified in the MHP for the performance of work. Any substitutions &/or additional transporters must have written approval from the Engineer, prior to working. There shall be no additional cost to the NYSDOT for obtaining & submitting other transporters for approval.

The Contractor shall be responsible for acquiring any transportation permits, manifests and related items &/or services, required for transporting hazardous or contaminated material to an approved off-site disposal facility. The project site access, travel routes, clearances, weight restrictions must be investigated by the Contractor prior to shipment. The Contractor shall coordinate the schedule for truck arrival and material deliveries to the disposal site.

The Contractor shall organize, prepare and maintain the material shipment record/ manifests and land disposal restriction notifications required by federal regulations, the State of New York and the state where the treatment/disposal facility is located.

For waste water that is determined to be a hazardous waste, the NYSDOT will provide a US EPA hazardous waste generator Identification Number for use on the manifest. NYSDOT will sign the manifest as the waste “generator” and will receive a copy of the manifest at time of shipment.

The Contractor shall arrange for the prompt transport of all liquid waste from the project area. Any collected waste water shall be disposed of within 45 days after liquid is generated.

All vehicles leaving the Exclusion Zone shall be decontaminated at the Contamination Reducing Zone identified in the MHP. The Contractor shall inspect all vehicles leaving the project site to eliminate contaminated soils adhering to the wheels or undercarriage.

The Contractor shall be held responsible for any and all actions necessary to remedy situations involving materials/ liquids spilled in transit and of mud and dust tracked off-site. This cleanup, containment and proper disposal of wastes shall be accomplished at the Contractor’s expense.

The Contractor shall ensure that tanker trucks are sealed to protected against tampering or alternate usage not compatible to hauling contaminated materials.

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The Contractor shall not combine hazardous or contaminated materials/ liquids from other projects with materials/ liquids from this project site. Likewise, materials/ liquids from this project shall not be combined with materials/ liquids from other projects, unless specifically permitted by the responsible regulatory agency.

The Contractor shall coordinate manifesting, placarding of shipments, and vehicle decontamination. All quantities shall be measured and recorded upon arrival at the disposal facility.

c. Disposal

The Contractor shall use only the treatment, disposal, and recovery facility(ies) identified in his MHP for the performances of the work. Substitutions or additions shall not be permitted without prior written approval from the Engineer, and if approved, shall be at no extra cost to the NYSDOT.

The Contractor shall be responsible for acceptance of the materials at an approved treatment, disposal, or recovery facility for ensuring that the facility is properly permitted to accept the stated material, and that the facility provides the stated treatment and/or services.

The Engineer reserves the right to contact and visit the disposal facility and regulatory agencies to verify the agreement to accept the stated material and to verify any other information provided. This does not in any way relieve the Contractor of his responsibilities under this Contract.

In the event that the identified and approved facility ceases to accept the stated materials or the facility ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility(ies) for accepting materials. The Contractor is responsible for making the necessary arrangements to utilize the facility(ies), and the alternative facility(ies) must be approved in writing by the Engineer in the same manner and with the same requirements as for the original facility(ies). This shall be done with no extra cost or delay to the NYSDOT.

For wastewater determined by testing to be a hazardous waste, the Contractor will be required to submit to the Engineer for review a completed manifest 3 days prior to shipment. The Contractor shall obtain manifest forms and complete the shipment manifest records and land disposal restriction forms as required by the appropriate regulatory agencies. The Contractor shall provide the signed disposal facility manifest receipt copy and copies of quantities received records to the Engineer within three (3) business days after notification of receipt at the disposal facility. Any manifest discrepancies shall be reported immediately to the Engineer and be resolved by the Contractor to the satisfaction of the Engineer. The Engineer shall notify the appropriate environmental agencies, such as NYSDEC, of the manifest problem and the ultimate resolution of the problem.

In accordance with the contract, all materials shall be treated/disposed of within 45 days of extraction/collection.

For contaminated waste waters that do not require a manifest, the Contractor must obtain the copies of records from the receiving facility, verifying the quantities received.

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2. Option B: On-Site Treatment

a. General

All discharges into the river shall meet the water quality requirements identified in the NYSDEC SPDES Permit &/or Water Quality Certification.

All sediment & spent media generated during the treatment process shall be handled as contaminated material. The material shall be tested and disposed of under the appropriate ***Potentially Hazardous Waste disposal work items.***

The Contractor shall be held responsible for any and all actions necessary to remedy situations involving materials/liquids spilled on-site. This cleanup, containment and proper disposal of wastes shall be accomplished at the Contractor's expense.

The Contractor shall not combine hazardous or contaminated materials/ liquids from other projects with materials/ liquids from this project site.

b. Treatment

The Contractor shall design & operate a water treatment system of sufficient capacity and proper type to remove contaminants from the captured project water and achieve the Water Quality Certification requirements. The system shall be designed to impound the effluent prior to release into the river. The impounded water shall be tested and approved prior to release.

c. Testing

The chemical analysis shall be performed by a laboratory certified by the New York State Department of Health Environmental Laboratory Approval Program as technically acceptable. The laboratory selected by the Contractor shall be named in the MHP.

The sampling method and frequency of the impounded effluent water shall be in accordance to the NYSDEC SPDES permit &/or 401 Water Quality Certification.

The chemical analysis is required on a priority turn around schedule. The chemical analysis shall be done by a laboratory within 24 hours of receipt of the samples. The laboratory results shall be available to the Engineer as soon as practical. The Engineer shall grant approval to discharge the effluent in conjunction with NYSDEC representative(s).

The laboratory shall perform all testing required by the SPDES permit and/ or the Water Quality Certification. At a minimum, a representative sample must be analyzed for the following:

- a. **Polychlorinated Biphenyls (PCBs) Total Concentration** by EPA Method 608.
- b. **Metals** by either Atomic Absorption Furnace or all of the EPA Methods 206.2, 208.2, 218.2, 239.2 & 270.
- c. **Semi-Volatile Organic Compounds, Base/Neutral Extractables including Petroleum Aromatic Hydrocarbons (PAHs)** by EPA Method 625.

d. Discharge

The contractor shall discharge the effluent into the river as per the WQMP & NYS DEC SPDES permit&/or the Water Quality Certification. The discharge point and configuration shall be designed to minimize an increase in turbidity in the river.

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The Contractor shall sample & measure the turbidity at the discharge point & in the river upstream, for comparison. The discharge of fluids shall be discontinued when the difference in turbidity exceeds 28 NTUs. The Contractor shall propose corrective action before any more discharge is allowed. Payment for measuring the water quality in the River is included in the *Water Quality Monitoring* item.

**Method of Measurement**

The payment for contaminated liquid disposal or treatment shall be made on a lump sum basis.

**Basis of Payment**

The lump sum bid price shall include the cost of furnishing all labor, material & equipment (including rentals) to collect, handle, test, and either transport & dispose of or treat & release hazardous or contaminated liquids, including documentation & any special fee or service charges necessary to complete the work. The Contractor shall receive 10% of the lump sum, when the Water Quality Management Plan is approved. The Contractor shall receive 30 % of the lump sum for each pier location, when all the impounded water is extracted & stored. The final balance shall be made when all contaminated liquids have been disposed of off-site as verified by documentation from the receiving facility or have been treated & released on-site, as per the permit requirements.

**Payments will be made under:**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
07203.9720 M	Collection, Handling, Testing & Treatment or Disposal of Hazardous/ Contaminated Liquids	Lump Sum