



**CONTINUATION SHEET**

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DE-EM0003722/0015

PAGE OF  
2 2

NAME OF OFFEROR OR CONTRACTOR  
WASTREN ADVANTAGE, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Collected on Thermal Desorption Tubes by Gas Chromatography/Mass Spectrometry;</p> <p>IH-LT-523-160, Industrial Hygiene - Analysis of Semi-Volatile Organic Compounds Collected on Thermal Desorption Tubes by Gas Chromatography/Mass Spectrometry.</p> <p>WHL shall prepare a proposal to modify the fixed-price CLINs of the contract to include the referenced analyses and associated work scope. WHL not exceed \$35,000 in accrued cost before this order is definitized by subsequent contract modification.</p> <p>After completion of the activities required to assume responsibility for the referenced procedures, the Contractor shall notify the Contracting Officer in writing that it is ready to assume full responsibility for the work. Upon written approval from the Contracting Officer, the Contractor shall assume full responsibility for the work.</p> <p>The definitization schedule for Change Order modification 0015 is as follows:</p> <p>02/23/2017 Request for Proposal 03/23/2017 Submittal of Proposal 04/30/2017 Estimated Technical Evaluation Completed 05/16/2017 Estimated Cost Analysis Completed 05/26/2017 Estimated Pre Negotiation Memo Approved 06/30/2017 Estimated Definitization of Change Order</p> <p>All other terms and conditions remain unchanged. Payment: OR for ORP U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Period of Performance: 09/21/2015 to 09/21/2017</p>				

**Attachment**  
**DE-EM0003722**  
**MODIFICATION 0015**

**Replacement Pages**

**(Total: 3, including this Cover Page)**

- Section C, Descriptions/Specifications/Work Statement, Pages C-27,28

## ATTACHMENT C.1 REQUIRED LABORATORY PROCESSES AND ANALYSES

### Processes

- Sample Breakdown
- Homogenize Sample
- Centrifuge Sample
- Composite Sample
- Bulk Density
- Volume of % Centrifuged Solids
- Liquid Weight
- Solid Weight
- Volume of Solid
- Acid Digest for ICP/AA/Radiochemistry
- Water Digest for ICP/AA/Radiochemistry
- Fusion with KOH
- Solvent Extractions
- Water Digest (no acid)
- Quality Control Standards, Blanks and Calibration Samples
- SVOA sample preparation
- Core sample extrusion

### Analyses

#### **Inorganic, Physical Analyses, Total Organic Carbon**

- Ammonium by Ion Chromatography (IC)/Cations by IC
- Endotherm and Exotherm Analysis by TGA DSC
- Iso Uranium by ICP/Mass Spectrometry(MS)
- Density
- % Water by Thermo Gravimetric Measurement
- Anions by IC
- ICP Acid Digest/Routine Analysis
- Total Organic Carbon by Persulfate/Coulometry
- Hg and NH<sub>3</sub> ~~Vapor~~ Tube Analysis [by Thermal Desorption Unit\(TDU\)/Gas Chromatography\(GC\)-MS](#)
- Actinides and IH metals by ICP
- CN and Cr(VI) by Spectrophotometry
- pH, OH and S by ISE

#### **Organic Analyses**

- PCB Sample Preparation
- PCB Analyses (SW846 8082)
- Volatile Analyses (SW846 8260)
- [Semivolatile Analyses \(SW846 8270\)](#)
- [SVOA, VOA, Furan Tube Analysis by TDU/GC-MS](#)
- Total Carbon/Total Organic Carbon by Combustion Furnace

**Radionuclide Analyses**

- Alpha in liquid sample
- Am-241, Cm-243 by TRU-SPEC Resin
- Pu-238, 239 by TRU-SPEC Resin
- GEA, AEA
- Alpha/Beta and Liquid Scintillation Counters
- Sr-89,90 High Level
- I-129, N-63, H-3, Se-79 and Tc-99

**Data Reporting**

- Full Data Package
- Summary Data Package
- Summary Data Package with Quality Assurance and TCD Upload
- HEIS and ABCASH uploads