



Division of Remediation – Oak Ridge Office
Environmental Sample Analytical Testing Services

Specifications

TDEC Division of Remediation-Oak Ridge (TDEC DoR-OR) is seeking a five (5) year contract to provide Remediation Related Analytical Testing of environmental samples in various media types including but not limited to air, soils, water, vegetation, and biological samples such as fish tissue or benthic macro-invertebrates.

This Invitation to Bid (ITB) includes this “Specifications” sheet as well as 5 tabs /attachments in Excel.

- Tab 1 is the “Instructions Sheet”
- Tab 2 is the “TDEC DoR-OR Invitation-to-Bid (ITB) Sheet”
- Tab 3 is the “Estimated Sampling Quantities”
- Tab 4 is the “General Information Table 1”
- Tab 5 is the TDEC DoR-OR Electronic Data Deliverable (EDD) Format Example

Tabs 2,3, and 4 provide the lists and specifications of the testing the division will require.

Definitions:

CAS: Chemical Abstract Services Registry Number

EDD: Electronic Data Deliverable; An electronic, tabular format for sharing and manipulating data.

EPA: Environmental Protection Agency

EPA LHAL: Environmental Protection Agency Lifetime Health Advisory Limit

Holding Time: The time, prescribed by an analytical method, that must not be exceeded to ensure an accurate and quantitative measurement of a chemical analyte.

ICP-MS: Inductively coupled plasma mass spectrometry

ICP-OES: Inductively coupled plasma optical emission spectrometry

Level IV Data Package: Electronic report that contains sample results and qualifiers, chain of custody, all quality control results, and instrument raw data.

SV: Semi Volatiles

TN AWQC: State of Tennessee Ambient Water Quality Criteria

VOA: Volatile Organic Analysis

EPA's approved methods index can be found at the following locations with further description and definitions of the listed EPA methodologies in this spec and bid sheet:

- a) EPA approved methods index <https://www.epa.gov/measurements-modeling/index-epa-test-methods>
- b) EPA approved methods collections <https://www.epa.gov/measurements-modeling/collection-methods#1>

Scope:

1. Bidder must be able to perform analysis in a laboratory having a Radioactive Material License (Rad License). Bidder shall provide Rad License upon request but before bid award for the contract.
2. Turnaround times for requested tests:
 - a. Bidding Laboratory should bid scope at standard turnaround time on the Bid Sheet but shall have the capacity to support expedited turn times or rush testing orders on request if necessary. Bidding Laboratory can make a statement as to the cost for expedited analysis, but this will not be used in evaluating this ITB.
3. Bidder shall have the ability to provide Level IV Data Packages as defined by EPA.
4. The Bidder shall use only approved EPA methodology for all requested test parameters. Alternate Methods can be proposed if the Alternate Method provides the method detection limit, we require and is an EPA-approved method.
5. Bidder shall provide Electronic Data Deliverables in the format provided by TDEC in this ITB package. (Provided as "Attachment 5" titled "EDD Required Format").

- a. For reference: EDD is defined as an Electronic Data Deliverable and is described by the EPA as a standardized data delivery format with a hierarchical file created by the Laboratory Information Management System (LIMS) containing the information regarding chemical analysis of samples (EPA, 2023).
6. Bidder shall provide a sample bottle kit for collecting and shipping the environmental sample media including quality control samples:
 - a. Sample kit to include the following
 - i. Sample Bottles
 - ii. Coolers, Sample Tags
 - iii. Chain of Custodies
 - iv. Nano-pure Water (when requested)
 - v. Temperature Blanks
 - vi. Trip blanks (where appropriate)
 - vii. Costs to include sample kit shipping to TDEC prior to the sampling event.
7. Bidder shall have the ability to analyze general inorganics samples using the listed EPA-approved methods. Please see “General Information Table 1” for Tests and General Info and/or additional information.
8. Bidder shall have the ability to analyze general metals (ICP-MS and ICP-OES) tests using EPA-approved methods. Please see “General Information Table 1” for Tests and General Info and/or additional information.
9. Bidder shall have the ability to analyze general organics (Semi-volatile and Volatile,) tests using EPA-approved methods. Please see “General Information Table 1” for Tests and General Info and/or additional information.
10. Bidder shall have the ability to analyze biological media for general metals, general inorganics, and general organics using EPA-approved methods. Please see “General Information Table 1” for Tests and General Info and/or additional information.
 - a. Biological media may include
 - i. Insects
 - ii. Bird Eggs
 - iii. Vegetables
 - iv. Hay
 - v. Reptiles

- vi. Fish
- vii. Spiders
- viii. Milk

Shipping and Receiving of Samples:

1. Awarded Bidder shall provide a sample bottle kit as described above. Sample kits shall include any required paperwork, including sample Chain of Custodies (COCs) if appropriate.
2. Awarded Bidder shall provide all sample containers with bottle sets/sample kits to TDEC DoR-OR within 14 days of request.
3. Awarded Bidder shall be responsible for all sample disposition.

A responsive bidder will provide:

1. The completed ITB Bid Sheet
2. A cover sheet defining Rad licenses, comments, and list of assumptions, if made.
3. A statement that the bidder is able to return data in the EDD format.
4. Annual escalation rates, if applicable
5. A statement as to the percent increase in price per analysis for expedited turnaround time.