

Oak Ridge Reservation Cleanup Contract 89303322DEM000067

Task Order 89303523FEM400032

United Cleanup Oak Ridge LLC (UCOR)

Subtask No: 0003101

Subtask 10-1 - ETTP Final RODs/Remedies/Closure, Subtask 1,  
**Modification 3**



U.S Department of Energy  
Oak Ridge Office of  
Environmental Management

## Table of Contents

<b><u>Section B – Supplies or Services and Prices/Costs</u></b> .....	12
<b><u>B.1 DOE-B-2012 Supplies/Services Being Procured/Delivery Requirements (Oct 2014)</u></b> .....	12
<b><u>B.2 Type of Subtask</u></b> .....	12
<b><u>B.9 Basis for Change</u></b> .....	15
<b><u>B.12 Performance Management Incentive</u></b> .....	15
<b><u>Section C – Performance Work Statement</u></b> .....	15
<b><u>C.1 Subtask Requirements</u></b> .....	15
<b><u>Section D – Packaging and Marking</u></b> .....	33
<b><u>Section E – Inspection and Acceptance</u></b> .....	33
<b><u>E.1 Inspection and Acceptance Delegation</u></b> .....	34
<b><u>Section F – Deliveries or Performance</u></b> .....	34
<b><u>F.3 Period of Performance</u></b> .....	34
<b><u>Section G – Contract Administration Data</u></b> .....	34
<b><u>G.1 Subtask Administration</u></b> .....	34
<b><u>Section H – Special Contract Requirements</u></b> .....	35
<b><u>Section I – Contract Clauses</u></b> .....	35
<b><u>Section J – List of Documents, Exhibits, and Other Attachments</u></b> .....	35
<b><u>1. Attachment J-3 – Interfaces</u></b> .....	35
<b><u>2. Attachment J-7 – Deliverables</u></b> .....	38
<b><u>3. Attachment J-8 - Government-Furnished Services and Information (GFS/I)</u></b> .....	47
<b><u>Appendix B.2, Incentive Fee Details</u></b> .....	48
<b><u>Appendix B.9, Fee Risk Ownership</u></b> .....	58

## **Section B – Supplies or Services and Prices/Costs**

This Subtask work shall be performed under Contract Line Item Number (CLIN)-00003 of the Oak Ridge Reservation Cleanup Contract (ORRCC) Master Indefinite Delivery/Indefinite Quantity (IDIQ) Contract (herein referred to as the Master IDIQ Contract). Section B of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 is incorporated by reference.

### **B.1 DOE-B-2012 Supplies/Services Being Procured/Delivery Requirements (Oct 2014)**

The Contractor shall furnish all personnel, facilities, equipment, material, supplies, and services (except as may be expressly set forth in this Subtask as furnished by the Government) and otherwise do all things necessary for, or incidental to, the performance of work as described in Section C, Performance Work Statement under this Subtask.

### **B.2 Type of Subtask**

This is a Hybrid Subtask comprised of multiple CLIN types with fee/profit ceiling(s) applied at the CLIN/SubCLIN level.

(a) DOE-B-2001 *Cost-Plus-Fixed-Fee Subtask: Total Estimated Cost and Fixed Fee (Oct 2014)* (Revised)

(b) DOE-B-2002 *Cost-Plus-Award-Fee Task Order: Total Estimated Cost and Award Fee (Oct 2014)* (Revised)

(1) The Total Estimated Cost and Fee of the Subtask Contract Line Items is as follows:

<b>CLIN/ SubCLIN</b>	<b>CLIN/SubCLIN Title</b>	<b>CLIN Type</b>	<b>Estimated Cost</b>	<b>Fee</b>	<b>Total Estimated Price*</b>
0003	ORRCC End State Task Order 89303322DEM000067/ 89303523FEM400032				
0003101a	Subtask 10-1a: ETPP Final RODs/Remedies/Closure – Initial Term and Min- Safe Operations through FY 2028	CPFF	\$26,863,525	\$1,074,541	\$27,938,066

CLIN/ SubCLIN	CLIN/SubCLIN Title	CLIN Type	Estimated Cost	Fee	Total Estimated Price*
0003101-3	Subtask 10-1 Requirements Transferred from Subtask 3	CPAF	\$ 2,319,364	\$0	\$ 2,319,364
<b>Total</b>			\$29,182,889	\$1,074,541	\$30,257,430

*\*This Subtask is subject to reopening following receipt of audit of UCOR by an auditing firm retained by DOE. Therefore, the parties agree that the Total Subtask Estimated Value is subject to adjustment based on the results of audit report and resolution of audit findings. Should there be no agreement between DOE and Contractor on the amount of the price adjustment, the Contracting Officer may make a unilateral determination and modify the Subtask accordingly. Failure of Contractor and DOE to agree with such change and the resulting Total Subtask Estimated Value shall be resolved in accordance with the Disputes Clause of the Contract.*

(2) Payment of fee will be made in accordance with Clause I.228, DEAR 970.5232-2, *Payment and Advances (Dec 2000) – Alt I (Dec 2000), Alt II (Dec 2000) and Alt III (Dec 2000)(DEVIATION)* of the Master IDIQ Contract.

(c) DOE-B-2002 *Cost-Plus-Incentive-Fee Task Order: Total Estimated Cost and Incentive Fee (Oct 2014) (Revised)*

(1) SubCLIN 0003101b is a Cost-Plus-Incentive-Fee type SubCLIN. In accordance with the clause at FAR 52.216-10, *Incentive Fee*, the target cost, target fee, maximum and minimum fees, and the target fee increase and decrease ratios for this SubCLIN are:

**Target Cost: \$203,187,737**

**Target Fee: \$ 16,255,019**

**Maximum Fee: \$ 30,478,161\***

**Minimum Fee: \$ 4,063,755**

**\*Includes PMI of \$6,095,632 available and managed at the contractual level.**

**See Appendix B.2 for details.**

i. **Cost Incentive**

**See Appendix B.2.**

**Actual fee earned will be prorated based on final cost at completion.**

**For the cost incentive portion of fee, as specified at Section I clause FAR 52.216-10, *Incentive Fee*, paragraph (e)(1): the fee payable under this SubCLIN shall be the target fee increased by thirty (30) cents for every dollar the total allowable cost is less than the target cost or decreased by thirty (30) cents for every dollar the total allowable cost exceeds the target cost. In no event shall the fee be greater than (See Appendix B.2 for max amount) or less than \$0.**

ii. **Schedule Incentive**

**See Appendix B.2.**

iii. **Milestone Incentive**

**See Appendix B.2.**

**(2) The Target Cost, Target Fee, Minimum and Maximum fee, and Target Fee increase/decrease ratios are applicable to the following Subtask Contract Line Items:**

<b><u>CLIN/ SubCLIN</u></b>	<b><u>CLIN/SubCLIN Title</u></b>	<b><u>CLIN Type</u></b>	<b><u>Target Cost</u></b>	<b><u>Target Fee</u></b>	<b><u>Fee Increase/Decrease Ratio</u></b>
<b><u>00003</u></b>	<b><u>ORRCC End State Task Orders 89303322DEM000067/8930352 3FEM400032</u></b>				
<b><u>0003101b</u></b>	<b><u>Subtask 10-1b, ETP Final Groundwater RODs/Remedies/Closure</u></b>	<b><u>CPIE</u></b>	<b><u>\$203,187,737</u></b>	<b><u>\$16,255,019</u></b>	<b><u>As described in Subtask 10-1, Section B.2(c)(1)</u></b>

**(3) Payment of fee shall be made in accordance with the clause 52.216-10, *Incentive Fee*, Clause I.228, DEAR 970.5232-2, *Payment and Advances (Dec 2000) – Alt I (Dec 2000), Alt II (Dec 2000) and Alt III (Dec 2000) (DEVIATION)* of the Master IDIQ Contract and is payable upon DOE's final determination.**

- i. **Cost incentive fee will be made in accordance with this clause, Section B.11, Provisional Payment of Fee (Oct 2013)(Revised) of the Master IDIQ Contract, and other applicable clauses of the Subtask.**
- ii. **Milestone and schedule incentive fee under this SubCLIN will be paid after completion criteria is validated by OREM.**

## **B.9 Basis for Change**

In accordance with Clause B.9 *Basis for Change*, the identification of fee risk ownership for both the Government and the Contractor is set forth in Appendix B.9.

## **B.12 Performance Management Incentive**

In accordance with Clause B.12, *Performance Management Incentive*, of the Master IDIQ Contract, Performance Management Incentive is applicable to this Subtask (excluding SubCLIN 0003101-3).

## **Section C – Performance Work Statement**

### **C.1 Subtask Requirements**

The Contractor shall perform the requirements in accordance with the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 and the information included below:

#### **PERFORMANCE BASED STATEMENT OF WORK Subtask 10-1: ETTP Final RODs/Remedies/Closure, Subtask 1**

### **1.0 INTRODUCTION**

This is an end states Subtask. Key desired outcomes for the Department's environmental liability and risk reduction include:

- Environmental remediation end state complete for ETTP groundwater and remaining ecological, surface water, and sediment environmental media as described in Master IDIQ Section C.3.3.3.
- Closure of ETTP as a DOE Site as described in Master IDIQ Section C.5.7.
- Contaminant Load Remediated from identified areas of Environmental Media from primary contaminants of concern that include mercury, technecium-99, trichloroethylene, and uranium.
- Remediation complete for identified release sites
- Identified acreage of Sites Remediated/Footprint Reduction
- Groundwater wells installed

- General Plant Projects completed

The desired outcomes will require more than 10 years to complete. DOE and the ORRCC Contractor have partnered on a phased approach for completion of the desired outcome, as follows:

- Subtask 10-1a: Completion of an initial term of scope described in Section 3.0 while remaining initial Subtask 10-1b end state requirements are negotiated.
- Future Subtask 10-1b: Completion of initial ETTP RODs/Remedies/Closure end state requirements.

Additional related Subtasks that are planned to fully achieve the desired outcome include the following:

- Future Subtask 10-2: Completion of the P1 Pond Removal Action, as required. (*Subtask 10-2 will be included in a future request for Subtask proposal*).
- Future Subtask 19-1: Completion of the Environmental Remediation end state for ETTP groundwater and remaining ecological, surface water, and sediment environmental media as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 Section C.3.3.3 and all remaining actions to close ETTP as a DOE site as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 Section C.5.7. (*Subtask 19-1 will be included in a future request for task order proposal*).

The Contractor shall ensure the Subtask scope is integrated with other Subtasks, as necessary.

## **2.0 BACKGROUND**

As described in the *OREM Program Plan 2022 – 2032*, ETTP (previously K-25, renamed in 1997) was constructed during the Manhattan Project to enrich uranium for the first atomic weapon using the gaseous diffusion process. Due to the success of this technique, the original plant was expanded during the Cold War and employed 12,000 workers. At its peak, the site contained five enormous uranium enrichment facilities—K-25, K-27, K-29, K-31, and K-33— and hundreds of support facilities.

DOE ceased all gaseous diffusion operations at the K-25 plant in 1987. Environmental cleanup to address the deteriorating facilities and environmental hazards created during decades of uranium enrichment began shortly thereafter. In addition to conducting much needed cleanup, DOE pursued a vision to convert the site into a private industrial park by transferring land and infrastructure back to the community.

OREM has completed the demolition of all excess facilities and is in the final phase of completing cleanup at ETTP. The work remaining for this Subtask includes completing

groundwater and remaining ecological, surface water, and sediment environmental media remediation and all remaining actions to close ETPP as a DOE site.

### **3.0 SCOPE**

The Contractor shall perform the scope of work and requirements in accordance with the Section C PWS sections and subsections of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 identified below:

#### **○ C.3.3 ETPP Cleanup**

##### **C.3.3.3 Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation**

- C.3.3.3.1 ETPP ROD Development
  - C.3.3.3.2 ETPP Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation
- **C.5.7 ETPP Site Closure, Historic Preservation, Surveillance and Maintenance, and Environmental Monitoring**
  - C.5.7.1 ETPP Closure
  - C.5.7.2 ETPP Historic Preservation
  - C.5.7.3 ETPP S&M and Environmental Monitoring

For the scope of work performed under Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 PWS sections and subsections listed in the Scope, the Contractor shall incorporate the following assumptions and completion objectives into Subtask 10-1:

#### **SubCLIN 0003101a, Subtask 10-1a: ETPP Final RODs/Remedies/Closure – Initial Term and Min-Safe Operations through FY 2028**

The desired outcome of ETPP Final RODs/Remedies/Closure Subtask 10-1, SubCLIN 000310a includes continuation of minimum-safe operations and critical path activities while remaining initial Subtask 10-1b end state requirements are negotiated; and, continuation of minimum-safe operations through September 30, 2028.

- PWS C.3.3.3.1 ETPP ROD Development Interim End State:
  - Complete Zone 1 Groundwater K-720 Waste Sampling, Analysis, Validation and Verification, Waste Profile, and Investigative Derived Waste Disposal.

- Complete Zone 1 Groundwater K-1085 Remedial Investigation Work Plan Addendum D0, D1 and transmit to DOE.
- Complete Main Plant Area Final Record of Decision Data Characterization and Delineation, including:
  - Site preparation and vegetation removal;
  - Planning, procurement and permitting;
  - Initial well mobilization;
  - Repair of Wells 1-110 and well repair demobilization; and,
  - Dry sampling of Wells 1-110, sampling analysis, validation and verification, dry sampling investigative derived waste disposal, and plume interpretation.
- Provide project management and support for ETTP Final Groundwater and Remaining Ecological, Surface Water and Sediment RODs and Remediation.
- Assume:
  - Includes field activities required to obtain Final ROD (s).
- PWS C.3.3.3.2 ETTP Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation Interim End State:
  - Complete Main Plant Area Interim Record of Decision Remedial Design Work Plan, D1 and transmit to DOE.
  - Complete Main Plant Area Waste Handling Plan D0, D1 and transmit to DOE.
  - Complete K-31/K-33 Remedial Design Report/Remedial Action Work Plan Planning/Presentation/Resolution for DQO Sessions 1, 2, and 3.
  - Complete K-31/K-33 Remedial Design **Report/Remedial Action Work Plan (RDR/RAWP)**, D0 and transmit to DOE.
- PWS C.5.7.1 ETTP Site Closure:
  - Continue sludge disposal from Rarity Ridge Wastewater Treatment Plant for the period 11/27/2023 through 9/30/2024.
- PWS C.5.7.2 ETTP Historic Preservation End State
  - Continue responsibilities of the ORRCC Contractor described in Attachment J-3-10, *ETTP Historic Preservation Responsibility Matrix*, for the period 11/27/2023 through 9/30/2024.
  - Assume:
    - The Viewing Platform Site Improvements will follow completion of ETTP Soils Remediation fieldwork.
    - The following J-3-10 responsibilities of the ORRCC Contractor are planned to occur after September 30, 2024:
      - Viewing Platform Construction As Built Drawings
      - Viewing Platform Construction – Procure and install front desk
      - Viewing Platform Construction Improvements – As built drawings

- Viewing Platform Exhibits – Install the changeable, non-permanent exhibits and displays
- Telecommunications – Procure and install telecommunications equipment
- PWS 5.7.3, ETPP Surveillance, Maintenance, and Environmental Monitoring:
  - Continue safe and compliant ETPP surveillance, maintenance, and monitoring as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 Section C.5.7.3 for the period 11/27/2023 through 9/30/2024; and, 10/1/2024 through 9/30/2028.

**SubCLIN 0003101b, Subtask 10-1b: ETPP Final RODs/Remedies/Closure**

The desired outcome of SubCLIN 000310b includes **approved Final Record of Decision(s) (ROD) that define East Tennessee Technology Park (ETTP) groundwater and remaining ecological, surface water, and sediment remediation as described in Master IDIQ and Master (Task Order) TO Section C.3.3.3; an approved Remedial Action Report (RAR) for each ETPP Final ROD to complete the environmental media remediation end state described in Master IDIQ and Master TO Section C.3; completion of historic preservation commitments described in Master IDIQ and Master TO Section C.5.7.2; and, closure of ETPP as a DOE site as described in Master IDIQ and Master TO Section C.5.7.1.**

<b><u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u></b>		
<b><u>PWS Subsection</u></b>	<b><u>Completion Objectives</u></b>	<b><u>Assumptions</u></b>
<b><u>C.3.3.3.1</u></b> <b><u>ETTP ROD</u></b> <b><u>Development</u></b>	<ul style="list-style-type: none"> <li>● <b><u>Final RODs approved for the following:</u></b> <ul style="list-style-type: none"> <li>– <b><u>ETTP Zone 1 Groundwater Remediation</u></b></li> <li>– <b><u>ETTP Remaining Ecology/Surface Water/Sediment Remediation</u></b></li> <li>– <b><u>Completion of the remaining Pre-Remedial Investigation groundwater sampling in MPA prior to development of the RIWP.</u></b></li> <li>– <b><u>Final RI and FS for ETTP MPA Groundwater.</u></b></li> <li>– <b><u>RI, FS, PP, and ROD for Remaining Media</u></b></li> <li>– <b><u>RI, FS, PP, and ROD for Zone 1 Groundwater</u></b></li> <li>– <b><u>Development of a comprehensive ETTP Roadmap to a Groundwater and Remaining Media End State Plan for internal use and long-term planning.</u></b></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● <b><u>Includes field activities required to obtain Final ROD(s).</u></b></li> <li>● <b><u>Pre-Remedial Investigation groundwater sampling in the Main Plant Area (MPA), which began in Fiscal Year (FY) 2024, will not require additional sampling rounds beyond one wet and one dry season minimum. Wells sampled will be the same subset sampled in FY 2024 and will not require additional</u></b></li> </ul>

<u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u>		
<u>PWS Subsection</u>	<u>Completion Objectives</u>	<u>Assumptions</u>
		<p><u>redevelopment or refurbishment that was not already provided for the FY 2024 start of sampling. Data collected from the minimum two rounds of sampling will be used to inform revised Data Quality Objectives (DQO) and will be used to refine the Remedial Investigation Work Plan (RIWP). Standard operating procedures and labor mix will not change from the FY 2024 sampling.</u></p> <ul style="list-style-type: none"> <li>• <u>Development of a comprehensive ETTP Roadmap to a Groundwater and Remaining Media End State Plan is an internal-use only deliverable.</u></li> <li>• <u>Zone 2 Soils Ecological Risk is excluded from Remaining Media scope.</u></li> <li>• <u>Excludes scope authorized in Subtask 10-1a:</u> <ul style="list-style-type: none"> <li>– <u>Zone 1 Groundwater K-720 Waste Sampling, Analysis, Validation and Verification, Waste Profile, and Investigative Derived Waste Disposal.</u></li> </ul> </li> </ul>

<u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u>		
<u>PWS Subsection</u>	<u>Completion Objectives</u>	<u>Assumptions</u>
		<ul style="list-style-type: none"> <li>– <u>Zone 1</u> <u>Groundwater K-1085 RIWP</u> <u>Addendum D0, D1</u> <u>and transmittal to</u> <u>U.S. Department of</u> <u>Energy (DOE).</u></li> <li>– <u>MPA Final ROD</u> <u>Data</u> <u>Characterization</u> <u>and Delineation,</u> <u>including site</u> <u>preparation and</u> <u>vegetation removal;</u> <u>planning,</u> <u>procurement and</u> <u>permitting; initial</u> <u>well mobilization;</u> <u>repair of Wells 1-</u> <u>110 and well repair</u> <u>demobilization; and</u> <u>dry sampling of</u> <u>Wells 1-110,</u> <u>sampling analysis,</u> <u>validation and</u> <u>verification, dry</u> <u>sampling</u> <u>investigative</u> <u>derived waste</u> <u>disposal, and plume</u> <u>interpretation.</u></li> <li>– <u>Project</u> <u>management and</u> <u>support for ETP</u> <u>Final Groundwater</u> <u>and Remaining</u> <u>Ecological, Surface</u> <u>Water and</u> <u>Sediment RODs and</u> <u>Remediation</u> <u>through FY 2024.</u></li> </ul>

<u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u>		
<u>PWS Subsection</u>	<u>Completion Objectives</u>	<u>Assumptions</u>
<u>C.3.3.3.2</u> <u>ETTP</u> <u>Groundwater and</u> <u>Remaining</u> <u>Ecological</u> <u>Surface Water,</u> <u>and Sediment</u> <u>Remediation</u>	<ul style="list-style-type: none"> <li>• <u>Complete implementation of the requirements of the ETTP MPA Groundwater Interim ROD (excluding RAR).</u></li> <li>• <u>Complete implementation of the requirements of the K-31/33 ROD to complete the Environmental Media Remediation desired outcome described in Master IDIQ Section C.3.</u></li> </ul>	<ul style="list-style-type: none"> <li>– <u>Excludes scope authorized in Subtask 10-1a:</u> <ul style="list-style-type: none"> <li>– <u>Complete MPA Interim ROD Remedial Design Work Plan (RDWP), D1 and transmit to DOE.</u></li> <li>– <u>Complete MPA Waste Handling Plan D0, D1 and transmit to DOE.</u></li> <li>– <u>Complete K-31/K-33 Remedial Design Report/RIWP Planning/Presentation/ Resolution for DQO Sessions 1, 2, and 3.</u></li> <li>– <u>Complete K-31/K-33 RDR/RAWP, D0 and transmit to DOE.</u></li> </ul> </li> </ul>
<u>C.5.7.1</u> <u>ETTP Closure</u>	<ul style="list-style-type: none"> <li>• <u>Completion of the following by September 30, 2028:</u> <ul style="list-style-type: none"> <li>– <u>Evaluate the effectiveness of the Rarity Ridge Wastewater Treatment Plant sludge digester, formulate appropriate decontamination/cleanup actions, and implement improvements to the Rarity Ridge Wastewater Treatment Plant sludge digester for acceptable transfer to City of Oak Ridge. Continue sludge disposal shipments from Rarity Ridge Wastewater Treatment Plant until Rarity Ridge decontamination and cleanup action is implemented.</u></li> <li>– <u>Complete Outfall 490, Poplar Creek, Miscellaneous Outfalls, and Mitchell Branch stormwater reroutes and all actions to obtain regulatory approval to remove all remaining outfalls from</u></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>– <u>Rarity Ridge WWTP will be accomplished in a phased approach including:</u> <ul style="list-style-type: none"> <li>– <u>Phase 1: evaluation and sampling necessary to inform final decontamination and cleanup actions with concluding Final RR WWTP Report of Conditions and Recommendations.</u></li> <li>– <u>Phase 2: implementation of decontamination and cleanup actions, will</u></li> </ul> </li> </ul>

<b><u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u></b>		
<b><u>PWS Subsection</u></b>	<b><u>Completion Objectives</u></b>	<b><u>Assumptions</u></b>
	<p><b><u>the National Pollutant Discharge Elimination System Permit.</u></b></p> <ul style="list-style-type: none"> <li>– <b><u>Complete K-770 Culvert Removal.</u></b></li> <li>– <b><u>Complete heavy equipment and artifact disposition, including evaluation of the characterization, transfer, removal, and disposal of the remaining historical artifacts; evaluation of classified items located at the U.S. Department of Energy Office of Scientific and Technical Information (OSTI) for transfer of ownership, consideration of stakeholder interest, and development of a final plan to disposition; and, final transfer, removal, and/or disposal of all remaining historical items and artifacts.</u></b></li> <li>– <b><u>Complete the miscellaneous concrete structures removal scope.</u></b></li> <li>– <b><u>Complete removal of miscellaneous items for ETTP closure (e.g., fencing).</u></b></li> <li>– <b><u>Evaluate demobilization of ETTP site operations by 2028 with intention to ramp down personnel by or before 2029 unless there is a clear mission need. If necessary, Contracting Officer approval shall be required for ongoing site operations with clear end point identified. Site operations include personnel, support structures, and equipment.</u></b></li> <li>–</li> </ul>	<p><b><u>include final contaminated sludge shipment with documented concurrence provided to DOE by the City of Oak Ridge that the offsite sludge shipments are no longer necessary.</u></b></p> <ul style="list-style-type: none"> <li>– <b><u>ETTP artifact disposition does not apply to classified items located at OSTI.</u></b></li> <li>– <b><u>Excess artifacts recommended for continued museum use will be retained by DOE, but efforts will be made to transfer ownership from OREM to other DOE entity. Where necessary and in alignment with MOA, disposition will be considered.</u></b></li> <li>– <b><u>Heavy equipment disposition excludes transfer of equipment to the Heavy Equipment Yard for continued use authorized in Subtask 17-1.</u></b></li> <li>• <b><u>Excludes scope authorized in Subtask 10-1a:</u></b> <ul style="list-style-type: none"> <li>– <b><u>Continue sludge disposal from Rarity Ridge Wastewater Treatment Plant for the period November 27, 2023, through</u></b></li> </ul> </li> </ul>

<b><u>SubCLIN 003101b Section 3.0 Specific Assumptions and Completion Objectives</u></b>		
<b><u>PWS Subsection</u></b>	<b><u>Completion Objectives</u></b>	<b><u>Assumptions</u></b>
		<b><u>September 30, 2024.</u></b>
<b><u>C.5.7.2 ETPP Historic Preservation</u></b>	<ul style="list-style-type: none"> <li>• <b><u>Complete historic preservation commitments described in Master IDIQ and Master TO Section C.5.7.2 in accordance with ORRCC Contractor responsibilities described in the Attachment J-3-10, ETPP Historic Preservation Responsibility Matrix.</u></b></li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>Excludes scope authorized in Subtask 10-1a:</u></b> <ul style="list-style-type: none"> <li>– <b><u>Continue responsibilities of the Oak Ridge Reservation Cleanup Contract Contractor described in Attachment J-3-10, ETPP Historic Preservation Responsibility Matrix for the period November 27, 2023, through September 30, 2024.</u></b></li> </ul> </li> </ul>

**SubCLIN 0003101-3, Subtask 10-1 Requirements Transferred from Subtask 3**

Complete remaining completion objectives and assumptions transferred from Subtask 3, as follows:

<b><u>SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives</u></b>		
<b><u>PWS Subsection</u></b>	<b><u>Completion Objective</u></b>	<b><u>Assumptions</u></b>
<b><u>C.3.3.3.1 ETPP ROD Development</u></b>	<ul style="list-style-type: none"> <li>• Complete remaining 10% of the completion objectives transferred from Subtask 3, including: <ul style="list-style-type: none"> <li>– K-31/K-33 Groundwater: <ul style="list-style-type: none"> <li>○ Resolve EPA/TDEC comments on Proposed Plan (PP) (D1), prepare D2 version, and support public notification meeting.</li> <li>○ Prepare D0 and D1 ROD.</li> </ul> </li> </ul> </li> </ul>	

SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<ul style="list-style-type: none"> <li>○ Complete ROD, D2, including clearance and transmittal to DOE.</li> <li>– Main Plant Area Groundwater: <ul style="list-style-type: none"> <li>○ Support comment resolution, revise PP (D1 and prepare/transmit PP (D2) to DOE.</li> <li>○ Complete preparation of Interim ROD (IROD).</li> <li>○ Complete three rounds of groundwater sampling in EU-36.</li> <li>○ Complete two DQO sessions in support of the RIWP.</li> <li>○ Plan, present, and resolve two DQO sessions in support of the TSWP.</li> <li>○ Complete TSWP, D0.</li> <li>○ Complete RIWP, D0 and transmit to DOE.</li> <li>○ Plan, present, and resolve two DQO sessions in support of the RDWP.</li> <li>○ Complete RDWP, D0 and transmit to DOE.</li> </ul> </li> <li>– Zone 1 Groundwater: <ul style="list-style-type: none"> <li>○ Continue RI Field Work, as necessary, and begin associated data analysis and DQA.</li> <li>○ Develop and transmit K-720 Fly Ash Pile Addendum to the RIWP.</li> <li>○ Initiate K-720 fieldwork procurement planning, site preparation and vegetation removal.</li> <li>○ Plan, present, and resolve three RI Field Work DQA sessions.</li> <li>○ Complete K-720 sampling/analysis/data validation and verification for the first two quarters of year one.</li> </ul> </li> </ul>	

SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<ul style="list-style-type: none"> <li>○ Complete K-720 well mobilization, well installation, and demobilization.</li> <li>○ Complete one quarter of well sampling, analysis, data validation and verification.</li> <li>○ Complete Direct Push Technology well installations.</li> <li>– Ecology/Surface Water/Sediment: <ul style="list-style-type: none"> <li>○ Transmit erratum to RIWP (D2).</li> <li>○ Complete RI Field Work, associated data analysis and DQA.</li> <li>○ Complete RI Field Work DQA Sessions 5 and Errata, DQA Session 6 and Errata, and DQA Session 7 and Errata.</li> <li>○ Complete Fishing Survey and analysis.</li> <li>○ Complete K1007 Ponds Benthic Community Survey.</li> </ul> </li> <li>– K-1007-P1 Pond: <ul style="list-style-type: none"> <li>○ Resolve comments on Non Time-Critical Action Memorandum and complete Removal Action Work Plan.</li> <li>○ Pond fill removal action is planned to be completed in parallel with airport construction in a future Subtask.</li> <li>○ Complete Mitigation Plan prior to the removal action.</li> </ul> </li> <li>– Complete Deliverable T3-075, Main Plant Area Groundwater IROD RDWP, D0 to DOE, transferred from Subtask 3.</li> </ul>	
C.5.7.1, ETPP Site Closure	<ul style="list-style-type: none"> <li>● Complete remaining 15% of completion</li> </ul>	

SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>objectives transferred from Subtask 3, including:</p> <ul style="list-style-type: none"> <li>– Continue disposal of sludge from Rarity Ridge wastewater treatment plant.</li> <li>– Complete planning and subcontract procurement for removal of waterway structural and material hazards, including the water intake facility at the Powerhouse and miscellaneous fencing, fence posts, and concrete docks, modifying active outfalls and pipes, and removing inactive outfalls and pipes.</li> <li>– Complete OF690 stormwater re-route.</li> <li>– Complete planning and subcontract procurement for other stormwater drains, including OF490 and Poplar Creek, and video investigation as necessary to determine if piping is structurally viable, consistent with overall site plan for stormwater.</li> <li>– Complete removal and disposition of remaining site structures not supporting ETTP Remedial Actions.</li> <li>– Plan and procure the disposition of K-1250-2 and 3 bridges.</li> <li>– Continue heavy equipment and artifact disposition.</li> <li>– Continue removal of Zone 1 miscellaneous concrete structures but not at the expense of critical path remedial actions.</li> <li>– Initiate removal of hydrants, bollards, PIVs, and guardrails at ETTP.</li> <li>– Develop Work Plan and/or other work documents as needed and evaluate the Zone 2 duct banks.</li> <li>– Develop a report of findings proposing a final end state for the Zone 2 duct banks based on a case-by-case basis including but not limited to filling in, demolishing in place, abandoning, etc. while ensuring the</li> </ul>	

SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>evaluation of future safety interests particularly in high-trafficked areas.</p> <ul style="list-style-type: none"> <li>– Continue disposal of sludge from Rarity Ridge wastewater treatment plant for the period 7/24/2023 through 11/26/2023.</li> <li>– Complete Final Request for Proposal and Certified-for-Construction Design for Phase I ETTP Road Repairs that will include: <ul style="list-style-type: none"> <li>○ Victorious Blvd West from Perimeter Road, west to the section of Victorious Blvd West previously transferred;</li> <li>○ Victorious Blvd East from Heritage Center Blvd;</li> <li>○ Americus Blvd from Chromium St, north to Zirconium Street;</li> <li>○ Intersection at Perimeter Road and Victorious Blvd West; and,</li> <li>○ Removal of railroad tracks on Victorious Blvd West.</li> </ul> </li> <li>– Complete Final Request for Proposal and Certified-for-Construction Design for ETTP Mitchell Branch Storm Water Reroute.</li> </ul>	
C.5.7.2, ETTP Historic Preservation	<ul style="list-style-type: none"> <li>• Complete remaining 24% of the completion objectives transferred from Subtask 3, including.</li> <li>– Provide Title III support during implementation of the final Certified for Construction design, after DOE makes a final construction acquisition decision.</li> <li>– Complete fabrication of wayside exhibits.</li> <li>– Continue responsibilities of the ORRCC Contractor described in Attachment J-3-3, ETTP Historic Preservation Responsibility Matrix, for the period 7/24/2023 through 11/26/2023.</li> </ul>	<ul style="list-style-type: none"> <li>• Complete responsibilities as described in the Attachment J-3-3, TO-3 Revision 2 Interfaces, ETTP Historic Preservation Responsibility Matrix.</li> <li>• The Viewing Platform Site Improvements will follow completion</li> </ul>

SubCLIN 003101-3 Section 3.0 Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
		of ETTP Soils Remediation fieldwork.

#### **4.0 APPLICABLE DIRECTIVES**

In addition to the Directives included in the Master IDIQ Contract, no additional Directives are included in this Subtask.

#### **5.0 INTERFACES**

In addition to the Interfaces included in the Master IDIQ Contract, additional Interfaces are included in Attachment J-3-10 to this Subtask.

#### **6.0 DELIVERABLES**

In addition to the Deliverables included in the Master IDIQ Contract, additional Deliverables are included in Attachment J-7-10 to this Subtask.

#### **7.0 GOVERNMENT-FURNISHED SERVICES AND INFORMATION**

In addition to the Government-Furnished Services and Information (GFS/I) included in the Master IDIQ Contract, additional GFS/I are included in Attachment J-8-10 to this Subtask.

#### **8.0 PERFORMANCE OBJECTIVES AND STANDARDS**

Fee will be determined upon completion of the End State requirements in Section 3.0 and work scope/completion criteria as follows:

<b>SubCLIN 003101a: Subtask 10-1 ETTP RODs/Remedies/Closure – Initial Term and Min-Safe Operations through FY 2028</b>	
<b>End State Requirement</b>	<b>Work Scope/Completion Criteria</b>
PWS C.3.3.3.1 ETTP ROD Development Interim End State	<ul style="list-style-type: none"> <li>• Complete Zone 1 Groundwater K-720 Waste Sampling, Analysis, Validation and Verification, Waste Profile, and Investigative Derived Waste Disposal.</li> <li>• Complete Zone 1 Groundwater K-1085 Remedial Investigation Work Plan Addendum D0, D1 and transmit to DOE.</li> <li>• Complete Main Plant Area Final Record of Decision Data Characterization and Delineation, including: <ul style="list-style-type: none"> <li>○ Site preparation and vegetation removal;</li> <li>○ Planning, procurement and permitting;</li> <li>○ Initial well mobilization;</li> <li>○ Repair of Wells 1-110 and well repair demobilization; and,</li> <li>○ Dry sampling of Wells 1-110, sampling analysis, validation and verification, dry sampling investigative derived waste disposal, and plume interpretation.</li> </ul> </li> <li>• Provide project management and support for ETTP Final Groundwater and Remaining Ecological, Surface Water and Sediment RODs and Remediation.</li> </ul>
PWS C.3.3.3.2 ETTP Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation Interim End State	<ul style="list-style-type: none"> <li>• Complete Main Plant Area Interim Record of Decision Remedial Design Work Plan, D1 and transmit to DOE.</li> <li>• Complete Main Plant Area Waste Handling Plan D0, D1 and transmit to DOE.</li> <li>• Complete K-31/K-33 Remedial Design Report/Remedial Action Work Plan Planning/Presentation/Resolution for DQO Sessions 1, 2, and 3.</li> <li>• Complete K-31/K-33 Remedial Design Work Plan, D0 and transmit to DOE.</li> </ul>
Continue PWS C.5.7.1 ETTP Site Closure	<ul style="list-style-type: none"> <li>• Continue sludge disposal from Rarity Ridge Wastewater Treatment Plant for the period 11/27/2023 through 9/30/2024.</li> </ul>

<b>SubCLIN 003101a: Subtask 10-1 ETPP RODs/Remedies/Closure – Initial Term and Min-Safe Operations through FY 2028</b>	
<b>End State Requirement</b>	<b>Work Scope/Completion Criteria</b>
Continue PWS C.5.7.2 ETPP Historic Preservation.	<ul style="list-style-type: none"> <li>Continue responsibilities of the ORRCC Contractor described in Attachment J-3-10, ETPP Historic Preservation Responsibility Matrix for the period 11/27/2023 through 9/30/2024 (<i>Excluding responsibilities planned after September 2024 per assumptions in Section 3.0.</i>)</li> </ul>
Continue PWS 5.7.3, ETPP Surveillance, Maintenance, and Environmental Monitoring	<ul style="list-style-type: none"> <li>Continue safe and compliant ETPP surveillance, maintenance, and monitoring as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 Section C.5.7.3 for the period 11/27/2023 through 9/30/2024; and, for the period 10/1/2024 through 9/30/2028.</li> </ul>

**See Appendix B.2 for Milestone Incentive completion requirements.**

<b>SubCLIN 003101b: Subtask 10-1b, ETPP Final Groundwater RODs/Remedies/Closure</b>	
<b>End State Requirement</b>	<b>Work Scope/Completion Criteria</b>
<b>END STATE Award:</b> Complete all scope required by subtask 10b award	<ul style="list-style-type: none"> <li>– <b><u>Final RODs approved for the following:</u></b> <ul style="list-style-type: none"> <li>• <b><u>ETPP K-31/K-33 Groundwater Remediation</u></b></li> <li>• <b><u>ETPP Zone 1 Groundwater Remediation</u></b></li> <li>• <b><u>ETPP Remaining Ecology/Surface Water/Sediment Remediation</u></b></li> </ul> </li> <li>– <b><u>Completion of the Pre-Remedial Investigation groundwater sampling in MPA prior to development of the RIWP.</u></b></li> <li>– <b><u>Final RI and FS approved for ETPP MPA Groundwater Remediation.</u></b></li> <li>– <b><u>Comprehensive ETPP Roadmap to a Groundwater and Remaining Media End State Plan for internal use and long-term planning issued to DOE.</u></b></li> <li>– <b><u>Complete Injections and preliminary evaluation of the requirements of the ETPP MPA Groundwater Interim ROD (excluding RAR).</u></b></li> <li>– <b><u>Implementation of the requirements of the K-31/33 ROD complete with RAR approved.</u></b></li> <li>– <b><u>Completion of ETPP Closure, including the following:</u></b> <ul style="list-style-type: none"> <li>– <b><u>Complete evaluation of the effectiveness of the Rarity Ridge Wastewater Treatment Plant sludge</u></b></li> </ul> </li> </ul>

SubCLIN 003101b: Subtask 10-1b, ETTP Final Groundwater RODs/Remedies/Closure	
End State Requirement	Work Scope/Completion Criteria
	<p><u>digester, formulation of appropriate decontamination and cleanup actions, and implementation of improvements to the Rarity Ridge Wastewater Treatment Plant sludge digester for cessation of EM sludge shipment responsibilities.</u></p> <ul style="list-style-type: none"> <li>– <u>Complete sludge disposal shipments from Rarity Ridge Wastewater Treatment Plant until Rarity Ridge decontamination and cleanup actions are implemented.</u></li> <li>– <u>Complete Miscellaneous Outfalls, Outfall 490, Poplar Creek, and Mitchell Branch stormwater reroutes and obtain regulatory approval to remove all remaining outfalls from the National Pollutant Discharge Elimination System Permit.</u></li> <li>– <u>Complete K-770 Culvert Removal.</u></li> <li>– </li> <li>– <u>Complete heavy equipment and artifact disposition.</u></li> <li>– <u>Complete evaluation of classified items located at the U.S. Department of Energy Office of Scientific and Technical Information (OSTI) for transfer of ownership, consideration of stakeholder interest, and development of a final plan to disposition.</u></li> <li>– <u>Complete final transfer, removal, and/or disposal of all remaining historical items and artifacts.</u></li> <li>– <u>Complete the miscellaneous concrete structures removal scope.</u></li> <li>– <u>Complete removal of miscellaneous items for ETTP closure (e.g., fencing).</u></li> <li>– <u>Evaluate demobilization of ETTP site operations by 2028 with intention to ramp down personnel by or before 2029 unless there is a clear mission need. If necessary, Contracting Officer approval shall be required for ongoing site operations with clear end point identified. Site operations include personnel, support structures, and equipment.</u></li> <li>– <u>Complete historic preservation commitments described in Master IDIQ and Master TO Section C.5.7.2 in accordance with ORRCC Contractor responsibilities described in the Attachment J-3-10, ETTP Historic Preservation Responsibility Matrix.</u></li> </ul>

In addition, the performance requirements, made up of objectives and respective standards, for this Subtask will be used to determine quality of performance in CPARS evaluation and PMI **(excluding SubCLIN 0003101-3)**, as applicable. The performance objectives and standards are as follows:

<b>Objectives</b>	<b>Standard</b>
Safety and Operational Performance	See ORRCC PMI Plan
Meeting Regulatory or Court Ordered Milestones	See ORRCC PMI Plan
Quality Assurance Performance per Section C and Section E Clause FAR 52.246-11, where Continuous Monitoring and Performance Improvement are Evident	See ORRCC PMI Plan
Maintaining the Operability of Facilities and Other Infrastructure throughout the Performance Period such that Degradation is Addressed to Prevent Mission Impact	See ORRCC PMI Plan
Management of the Contractor's team, including teaming subcontractors to ensure efficient and effective partnering with the Government and all parties;	See ORRCC PMI Plan
Establishment, maintenance, and implementation of sound business systems to ensure efficient and effective business management performance in a complex IDIQ task order environment	See ORRCC PMI Plan
IDIQ management, including timely, good faith and fair dealings in conducting negotiations with DOE with the goal of a reasonable outcome, including equitable risk sharing, for all Parties	See ORRCC PMI Plan

### **Section D – Packaging and Marking**

Section D of the Master IDIQ Contract is incorporated by reference.

### **Section E – Inspection and Acceptance**

In addition to the following requirements, Section E of the Master IDIQ Contract is incorporated by reference:

## **E.1 Inspection and Acceptance Delegation**

In accordance with Clause E.2, DOE-E-2001, Inspection and Acceptance, the Contracting Officer assigns inspection and acceptance of all items to the Contracting Officer's Representative; however, the Contracting Officer's Representative is not authorized to accept nonconforming items or services.

## **Section F – Deliveries or Performance**

Section F of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 is incorporated by reference. The requisite clause information specific to this Subtask included below is consistent with the clause numbering structure established by the Master IDIQ Contract.

## **F.3 Period of Performance**

- (a) The SubCLIN 0003101a Period of Performance (POP) is from November 27, 2023, through September 30, 2028. The SubCLIN 0003101b POP is from October 1, 2024, through **May 9, 2033**. The SubCLIN 0003101-3 POP is from October 1, 2024, through May 17, 2025. The Contractor is expected to accomplish all of the completion criteria as defined in Section C within and/or at the end of the respective SubCLIN POP.
- (b) The Contractor shall not be paid for work performed or costs incurred prior to the Subtask effective date, unless specifically authorized by the Contracting Officer.

## **Section G – Contract Administration Data**

Section G of the Master IDIQ Contract is incorporated by reference in addition to the following:

### **G.1 Subtask Administration**

To promote timely and effective contract administration, correspondence delivered to the Government under this Subtask, shall reference the contract number, Task Order number, Subtask number, and subject matter, and shall be subject to the following procedures:

- (a) Technical correspondence. Technical correspondence shall be addressed to the COR for this Subtask, and a copy of any such correspondence shall be sent to the CO for this Subtask, with an informational copy to the Contract COR and Contract CO. As used herein, technical correspondence does not include correspondence where patent or rights in data issues are involved, nor technical correspondence that proposes or

involves waivers, deviations, or modifications to the requirements, terms, or conditions of this Contract.

(b) Information regarding correspondence addresses and contact information will be provided through official correspondence:

(1) Subtask Contracting Officer

(A) Name: Talia Burchfield

(B) Telephone number: 865/574-8007

(C) Address:

U.S. Department of Energy

Oak Ridge Office of Environmental Management

200 Administration Road

Oak Ridge, TN 37830

(D) Email address: Talia.Burchfield@orem.doe.gov

(2) Subtask Contracting Officer's Representative

(A) Name: Joanna Hardin

(B) Telephone number: 865/576-2366

(C) Address:

U.S. Department of Energy

Oak Ridge Office of Environmental Management

200 Administration Road

Oak Ridge, TN 37830

(D) Email address: Joanna.Hardin@orem.doe.gov

## **Section H – Special Contract Requirements**

Section H of the Master IDIQ Contract is incorporated by reference.

## **Section I – Contract Clauses**

Section I of the Master IDIQ Contract is incorporated by reference.

## **Section J – List of Documents, Exhibits, and Other Attachments**

In addition to the following requirements, Section J of the Master IDIQ Contract is incorporated by reference:

### **1. Attachment J-3 – Interfaces**

Attachment J-3-10 includes the following additional interfaces for this Subtask:

#### **Attachment J-3-10**

### ETTP Historic Preservation Responsibility Matrix

This matrix summarizes the roles and responsibilities for the various contractor entities involved in the completion of the remaining stipulations of the *Memorandum of Agreement for Decommissioning and Demolition of the K-25 Site and Interpretation of the East Tennessee Technology Park on the Oak Ridge Reservation* including Oak Ridge Reservation Cleanup Contractor responsibilities described in Performance Work Statement Section C.5.7.2

Activity	USACE Construction Contractor *	USACE **	ORRCC Contractor ***
<b>Viewing Platform</b>			
Viewing Platform Construction	Construction (Viewing Platform facility, walkways)	Construction management for Viewing Platform	Title III Services As-built drawings Excavation and penetration permit(s) RAD protection Procure and install front desk
Viewing Platform Construction Debris	Waste packaging and disposal	Construction management for Viewing Platform waste disposal	Disposal authorization at DOE landfill sites Support for clean spoils disposal
<b>Viewing Platform Site Improvements</b>			
Viewing Platform Site Improvements	Construction of K-25 Footprint Delineation (road improvements, visual markers, Wayside Exhibit Frames)	Construction management for Footprint Delineation	Title III Services As-built drawings Excavation and penetration permit(s) RAD protection Schedule coordination with ETTP RA Project Fabrication and installation of graphic panels in Wayside Exhibit frames
Viewing Platform Site Improvements Construction Debris	Waste packaging and disposal	Construction management for Footprint Delineation waste disposal	Support for clean spoils disposal Disposal authorization at DOE landfill sites

Activity	USACE Construction Contractor *	USACE **	ORRCC Contractor ***
Viewing Platform Exhibits		Facilitate access to UCOR and UCOR's subcontractor for exhibit fabrication and installation, to verify final measurements; turn over access from USACE construction contractor to UCOR and UCOR exhibit fabrication/installation contractor for installation of exhibits.	Production Ready Art  Fabricate and install the changeable, non-permanent exhibits and displays.
Telecommunications	Demobilize to enable work to proceed	Construction management for demobilization	Procure and install telecommunications equipment after USACE completes construction of Viewing Platform
External Communications	None	None	Support DOE OREM in communications with the NHP Consulting Parties, including semi-annual report
K-25 Artifacts	None	None	Manage historic artifacts Maintain a database of identified artifacts Support DOE in property movements for excess artifacts not retained
<p>*Assumes USACE will acquire and administer two single firm fixed price construction contracts for all identified NHP construction activities in accordance with OREM design.</p> <p>** Construction management assumes operational responsibility for the construction site footprint will be transferred to USACE for the duration of construction activities.</p> <p>*** The ORRCC Contractor will acquire and administer subcontract with Professional Site Design Team and Museum Professional required for assigned responsibilities.</p>			

Activity	USACE Construction Contractor *	USACE **	ORRCC Contractor ***	
<b>Acronyms:</b>				
DOE	Department of Energy		RA	Remedial Action
NHP	National Historic Preservation		RAD	Radiological
OREM	Oak Ridge Office of Environmental Management		USACE	United States
Army Corps				
ORRCC	Oak Ridge Reservation Cleanup Contract			of Engineers

## 2. Attachment J-7 – Deliverables

Attachment J-7-10, includes the following additional deliverables for this Subtask:

## Attachment J-7-10. Subtask 10-1 Deliverables

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
T10-1a-001	Subtask Performance Measurement Baseline	Final Within 30 days of Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>
T10-1a-002	Integrated Master Schedule	Final Within 30 days of Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>

**Attachment J-7-10. Subtask 10-1 Deliverables**

<b>Number</b>	<b>Deliverable</b>	<b>Deliverable Due Date</b>	<b>DOE Action Response<sup>1</sup></b>	<b>Reference</b>
T10-1a-003	Subtask Metrics and Milestone Plan	Final Within 30 days of Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>
T10-1a-004	Subtask Waste Generation Forecast	Final Within 30 days of Subtask issuance	Approve – 30 days	Section C.6.2.8, <i>Waste Management</i>
T10-1a-005	Main Plant Area Groundwater IROD RDWP, D1 to DOE	8/14/2024	**	Section C.3.3.3, <i>Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</i> CERCLA and FFA
T10-1a-006	K-31/33 RDWP, D0 to DOE	9/30/2024	**	Section C.3.3.3, <i>Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</i> CERCLA and FFA

**Attachment J-7-10. Subtask 10-1 Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
T3-075	Main Plant Area Groundwater IROD RDWP, D0 to DOE	By 3/31/2024	**	Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation CERCLA and FFA
<b><u>T10-1-001</u></b>	<b><u>Subtask Performance Measurement Baseline</u></b>	<b><u>Final Within 30 days of Subtask modification issuance</u></b>	<b><u>Approve – 30 days</u></b>	<b><u>Section C.6.1.1, Project Support Performance Requirements</u></b>  <b><u>Section H.51, Task Ordering Procedure</u></b>
<b><u>T10-1-002</u></b>	<b><u>Integrated Master Schedule (update for Subtask 10-1b)</u></b>	<b><u>Final Within 30 days of Subtask modification issuance</u></b>	<b><u>Approve – 30 days</u></b>	<b><u>Section C.6.1.1, Project Support Performance Requirements</u></b>  <b><u>Section H.51, Task Ordering Procedure</u></b>
<b><u>T10-1-003</u></b>	<b><u>Task Order Metrics and Milestone Plan</u></b>	<b><u>Final Within 30 days of Subtask modification issuance</u></b>	<b><u>Approve – 30 days</u></b>	<b><u>Section C.6.1.1, Project Support Performance Requirements</u></b>  <b><u>Section H.51, Task Ordering Procedure</u></b>
<b><u>T10-1-004</u></b>	<b><u>Waste Generation Forecast</u></b>	<b><u>Final Within 30 days of Subtask modification issuance</u></b>	<b><u>Approve – 30 days</u></b>	<b><u>Section C.6.2.8, Waste Management</u></b>
<b><u>T10-1-005</u></b>	<b><u>Reserved</u></b>			

**Attachment J-7-10. Subtask 10-1 Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
<u>T10-1-006</u>	<u>K-31/K-33 Groundwater RAWP, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FEA</u>
<u>T10-1-007</u>	<u>K-31/K-33 Groundwater RARD1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FEA</u>
<u>T10-1-008</u>	<u>Z1 Groundwater Plumes RI, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FEA</u>
<u>T10-1-009</u>	<u>Z1 Groundwater Plumes PP, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FEA</u>

**Attachment J-7-10. Subtask 10-1 Deliverables**

<b>Number</b>	<b>Deliverable</b>	<b>Deliverable Due Date</b>	<b>DOE Action Response<sup>1</sup></b>	<b>Reference</b>
<b><u>T10-1-010</u></b>	<b><u>Z1 Groundwater Plumes ROD, D1 to DOE</u></b>	<b><u>TBD<sup>2</sup></u></b>	<b><u>**</u></b>	<b><u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u></b>  <b><u>CERCLA and FEA</u></b>
<b><u>T10-1-011</u></b>	<b><u>Remaining Media RI, D1 to DOE</u></b>	<b><u>TBD<sup>2</sup></u></b>	<b><u>**</u></b>	<b><u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u></b>  <b><u>CERCLA and FEA</u></b>
<b><u>T10-1-012</u></b>	<b><u>Remaining Media PP, D1 to DOE</u></b>	<b><u>TBD<sup>2</sup></u></b>	<b><u>**</u></b>	<b><u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u></b>  <b><u>CERCLA and FEA</u></b>
<b><u>T10-1-013</u></b>	<b><u>Remaining Media ROD, D1 to DOE</u></b>	<b><u>TBD<sup>2</sup></u></b>	<b><u>**</u></b>	<b><u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u></b>  <b><u>CERCLA and FEA</u></b>

**Attachment J-7-10. Subtask 10-1 Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
<u>T10-1-014</u>	<u>Reserved</u>			
<u>T10-1-015</u>	<u>Reserved</u>			
<u>T10-1-016</u>	<u>Main Plant Area Groundwater IROD RDR/RAWP, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>
<u>T10-1-017</u>	<u>Reserved</u>			
<u>T10-1-018</u>	<u>Main Plant Area Groundwater RIWP, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>
<u>T10-1-019</u>	<u>Main Plant Area Groundwater RI, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>
<u>T10-1-020</u>	<u>Reserved</u>			
<u>T10-1-021</u>	<u>Reserved</u>			

**Attachment J-7-10. Subtask 10-1 Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
<u>T10-1-022</u>	<u>Reserved</u>			
<u>T10-1-023</u>	<u>Reserved</u>			
<u>T10-1-024</u>	<u>Outfall 490 Area Stormwater design plan</u>	<u>1/15/2025</u>	<u>Review – 30 days</u>	<u>C.5.7.1 ETTP Closure</u>
<u>T10-1-025</u>	<u>Reserved</u>			
<u>T10-1-026</u>	<u>Reserved</u>			
<u>T10-1-027</u>	<u>Z1 Groundwater Plumes FS, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>
<u>T10-1-028</u>	<u>Remaining Media FS D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>
<u>T10-1-029</u>	<u>Main Plant Area Groundwater FS, D1 to DOE</u>	<u>TBD<sup>2</sup></u>	<u>**</u>	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>  <u>CERCLA and FFA</u>

**Attachment J-7-10. Subtask 10-1 Deliverables**

<b>Number</b>	<b>Deliverable</b>	<b>Deliverable Due Date</b>	<b>DOE Action Response<sup>1</sup></b>	<b>Reference</b>
<b><u>T10-1-030</u></b>	<b><u>ETTP Roadmap to a Groundwater and Remaining Media End State Plan</u></b>	<b><u>30-Mar-2026</u></b>	<b><u>Review – 30 days</u></b>	<b><u>C.3.3.3.1 ETTP ROD Development</u></b>

**Attachment J-7-10. Subtask 10-1 Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response <sup>1</sup>	Reference
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<sup>1</sup>The DOE action is defined as follows:

- Approve – The Contractor shall provide the deliverable to DOE for review and approval. DOE will review the deliverable and provide comments or approve as submitted. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments and resubmit for DOE approval. Once approved by DOE, the deliverable shall be placed under change control with changes requiring DOE approval. It is not intended that editorial changes or corrections that do not alter commitments would require new DOE approval.
- Review – The Contractor shall provide the deliverable to DOE for review. DOE will review the information and will provide comments, as necessary. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments.
- Information – The Contractor shall provide the deliverable for information purposes only. DOE will review the information and may provide comments. Such comments do not require resolution under the Contract.

<sup>2</sup> DOE recognizes regulatory uncertainty associated with current environmental media-related FFA Milestones. Within 30 days of subtask award, UCOR and OREM will evaluate subject document deliverable dates that fall in Appendix E of the FFA and agree to replace “TBD” with accurate deliverable dates. If necessary, OREM and UCOR will initiate the process to update FFA milestones for regulatory approval, and update contract “TBD” language with dates to be no less than 30 days ahead of the regulatory-approved FFA Milestone date, upon regulatory approval. Deliverables with FFA Milestones in Appendix J will remain TBD until rolled into Appendix E, after which negotiations will occur within 30 days of regulatory approval of revised Appendix E milestone dates.

**Acronyms:**

AM	Action Memorandum	PCCR	Phased Construction Completion Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980	PP	Proposed Plan
D&D	Demolition Preparation & Demolition	RA	Remedial Action
DOE	U.S. Department of Energy	RAR	Remedial Action Report
DSA	Documented Safety Analysis	RAWP	Remedial Action Work Plan
EE/CA	Engineering Evaluation/Cost Analysis	RDR	Remedial Design Report
ETTP	East Tennessee Technology Park	RDWP	Remedial Design Work Plan
EU	Exposure Unit	RI	Remedial Investigation
FFA	Federal Facility Agreement	RIWP	Remedial Investigation Work Plan
FS	Feasibility Study	ROD	Record of Decision
IROD	Interim Record of Decision		
MOA	Memorandum of Agreement		
NHP	National Historic Preservation		
OREM	Oak Ridge Office of Environmental Management		

**\*\* DOE and Regulatory Actions to follow the standard schedule protocol for primary and secondary documents established per the FFA.**

**3. Attachment J-8 - Government-Furnished Services and Information (GFS/I)**

Attachment J-8-10 includes the following additional GFS/I for this Subtask:

<b>Attachment J-8-10, Subtask Specific GFS/I</b>	
<b>GFS/I</b>	<b>REQUIREMENT</b>
ETTP NHP Construction Services by the U.S. Army Corps of Engineers to implement the UCOR CFC design	<ul style="list-style-type: none"><li>• Construction/Construction management of the Viewing Platform and associated Site Improvements (road improvements, visual markers, and wayside exhibit frame installation)</li><li>• Waste packaging and transportation of construction debris to the Oak Ridge Reservation - Landfill.</li><li>• Warranty inspections for the one-year warranty period after construction is complete.</li></ul>

**Appendix B.2, Incentive Fee Details**

Task Order Fee Bearing Target Cost		\$203,187,737	
		<b>Fee Calculations</b>	
		<b>Percentages</b>	<b>Amounts</b>
Min Fee		2.00%	\$4,063,755
Target Fee		8.00%	\$16,255,019
Max Fee		15.00%	\$24,382,528
		*	
*PMI Pool Increases by	\$	6,095,632	
<b><u>Fee Description</u></b>	<b>Min Fee</b>	<b>Target Fee</b>	<b>Max Fee</b>
Available Fee	\$4,063,755	\$16,255,019	\$24,382,528
Cost	\$0	\$7,314,759	\$12,191,264
Schedule	\$0	\$4,876,506	\$8,127,509
Milestones	\$4,063,755	\$4,063,755	\$4,063,755
Total (C,S,M)	\$4,063,755	\$16,255,019	\$24,382,528
<b>i. Cost Incentive</b>			
	Min Fee**	Target Fee	Max Fee
Cost Incentive Range*	\$0	\$7,314,759	\$12,191,264

\*Provided as a range, actual fee earned will be prorated based on final cost at completion.

\*\*Should scope extend beyond the period of performance end date (5/9/33), the remaining scope and associated fee will be moved to a subsequent task order if applicable at the negotiated price.

**ii. Schedule Incentive**

Schedule Incentive	Min Fee Due Date**	Target Fee Due Date*	Max Fee Due Date*	Minimum Available Fee Amount	Target Fee Available Amount	Max Fee Available Amount
END STATE Award: Complete all scope required by subtask 10b award (See 8.0, <i>Performance Objectives and Standards</i> )		5/9/2033	2/8/2033	\$0	\$4,876,506	\$8,127,509
<b>Total</b>				<b>\$0</b>	<b>\$4,876,506</b>	<b>\$8,127,509</b>

*\*Note the fee amount will be calculated on a prorated daily basis from the max fee due date through the target fee due date.*

*\*\*Should scope extend beyond the period of performance end date (5/9/33), the remaining scope will be moved to a subsequent task order if applicable at the negotiated price and the fee will be decremented at a prorated daily basis from the target fee due date for a period and rate equal to the target fee due date to max fee due date period and rate. No fee will be available to earn after that period.*

iii. Milestones (earned upon completion/no clawback)		
Subtask 10-1b Milestones		
Milestone	Estimated Completion Date (for information only)	Available Fee Amount*
Complete Remaining CERCLA End State Plan for ETPP	3/30/2026	\$203,188
Rarity Ridge Wastewater Treatment Plant Sludge Shipment Completion	12/29/2026	\$1,015,939
Removal of Remaining Outfalls from NPDES Permit	11/16/2026	\$1,219,126

Water Treatment System Installation	6/24/2027	\$365,738
Removal of K-770 Culvert	9/5/2026	\$487,651
Transmit approvable D2 of Remaining Media Feasibility Study	11/15/2029	\$325,100
Obtain approval from EPA and TDEC for one Record of Decision.	9/30/2032	\$447,013
<b>Total</b>		<b>\$4,063,755</b>

\* Milestones must be completed during the Subtask period of performance to earn fee. Milestones partially completed during the period of performance will be paid at a prorated amount equal to the work completed. Should scope extend beyond the period of performance end date (5/9/33), the remaining scope and associated fee will be moved to a subsequent task order if applicable at the negotiated price.

**ORRCC  
MILESTONE  
No. 10-1-01**

**Title: Remaining CERCLA End State Plan for ETTP**

**Desired Endpoint/Outcome:** Develop a Remaining CERCLA End State Plan for ETTP that incorporates remaining media (i.e. surface water, sediment, and ecology) and groundwater actions necessary to complete EM cleanup at ETTP with a final path to transition to LTS&M. Deliverable should incorporate regulatory strategy where necessary, present cost-effective and efficient technical approaches, and include necessary Technical Impracticability or ARAR waivers where necessary.

**Work scope/completion criteria:**

- Provide DOE up to 12 physical copies for OREM management and regulatory support plus a digital version of the Remaining CERCLA End State Plan for ETTP.
- Include technically appropriate, cost-effective, efficient, and regulatorily viable paths to completing remaining CERLCA scope at ETTP.
- Endpoint should include a final path to transitioning to LTS&M.

**Completion document:** DOE verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-02**

**Title: Rarity Ridge Wastewater Treatment Plant Sludge Shipment Completion**

**Desired Endpoint/Outcome:** Evaluate the influent streams, flows, and inputs (i.e. stormwater, groundwater infiltration, etc.) treated by the Rarity Ridge Wastewater Treatment Plant. Develop and implement a cleanup plan with the goal to cease DOE-funded sludge shipments. Complete cleanup, verify and report results of confirmatory sampling to document successful cleanup, and ship last remaining sludge shipment.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Perform an evaluation and develop a report of conditions documenting investigation of influent streams, flow, and input (i.e. stormwater/groundwater infiltration) with a recommended cleanup approach.
- Develop a decontamination and cleanup plan for WWTP, based on recommended approach with DOE approval to proceed.
- Deliver to DOE a certificate of disposal for last sludge shipment.
- Complete final confirmation sampling effort and perform verification of results, documenting cleanup success required to cease sludge shipments.
- If required, assist with any final regulatory requirements to cease DOE-funded sludge shipments.

**Completion document:** DOE verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-03**

**Title: Removal of remaining outfalls from NPDES permit.**

**Desired Endpoint/Outcome:** Complete actions necessary to remove all remaining outfalls from NPDES permit and transmit National Pollutant Discharge Elimination System (NPDES) Permit removal package(s) to DOE for transmittal to TDEC.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Complete Outfall 490, Poplar Creek, and Mitchell Branch stormwater reroutes and all actions to obtain regulatory approval to remove all remaining outfalls from the NPDES permit. This includes requisite sampling and preparation of NPDES permit removal requests for transmittal to TDEC.
- Completion of confirmatory sampling, with results transmitted to DOE.
- Regulatory (TDEC) approval of closeout/removal paperwork
- Demobilization
- OREM walkdown and verification of each stormwater area.

**Completion document:** DOE verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-04**

**Title: Water Treatment System Installation**

**Desired Endpoint/Outcome:** Complete installation of a water treatment system, develop and transmit necessary regulatory documentation for operation, and if necessary (depending on documentation and DOE concurrence), obtain regulatory approval to operate the system.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Completed installation/construction of system
- Transmittal of necessary regulatory documentation
- Verification of successful operation
- DOE walkdown
- Construction demobilization complete

**Completion document:** Physical walkdown, DOE verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-05**

**Title: Removal of K-770 culvert**

**Desired Endpoint/Outcome:** Complete all necessary actions to remove K-770 culvert and return natural flow from the Clinch River to the K-770 embayment. Actions include but are not limited to removal of K-770 embayment roadway and associated culvert, regrade area for positive drainage, hydroseed or revegetate where necessary, and return the area to a natural state with inlet flow into the Clinch River.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Walkdown verification of K-770 removal, regrading, and revegetating
- Completion of removal of outfall from NPDES permit via TDEC approval
- Confirmation of disposal of any waste
- Completion of site/bank restoration
- Demobilization of all construction equipment

**Completion document:** Physical walkdown and DOE verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-06**

**Title: Transmit approvable D2 of Remaining Media Feasibility Study**

**Desired Endpoint/Outcome:** Complete all fieldwork necessary for the Remedial Investigation Report and develop and approvable D2 of the Feasibility Study to inform DOE cleanup mission.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Comment resolution with EPA and TDEC of D1 version with DOE concurrence to transmit D2.
- Delivery of approvable D2 Remaining Media Feasibility Study to DOE for transmittal to EPA and TDEC.

**Completion document:** DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC  
MILESTONE  
No. 10-1-07**

**Title: Obtain approval from EPA and TDEC for one Record of Decision.**

**Desired Endpoint/Outcome:** Complete and obtain EPA/TDEC/DOE approval of one groundwater ROD, remaining media ROD, or other record of decision document that provides a regulator-approved path for DOE to reach a defined end state for remaining CERCLA focus areas.

**Work scope/completion criteria:**

Specific activities required to satisfy this incentive are:

- Regulator acceptance and signature of ROD

**Completion document:** Written documentation submitted by UCOR and acceptance by DOE of work completion.

## Appendix B.9, Fee Risk Ownership

The identification of fee risk ownership for both the Government and the Contractor is set forth below.

Subtask 10-1 Fee Risk Ownership				
Risk ID	Title	Statement of Event	Type	Owner
TO-10-03	Ineffective Execution	If project management execution is not effective, in that other DOE program office contractors or prime contractors, or other agreements established under Memorandum of Agreement(s) cannot fulfill DOE's commitments to UCOR, then task order schedule and cost performance may be impacted.	Risk	DOE
TO-10-04	Changes in Security Requirements	If federal security requirements increase, then task order cost and schedule performance may be impacted.	Risk	DOE
TO-10-05	Transportation Interruption	If another DOE Prime Contractor causes a waste transportation event on the reservation (e.g., spread of contamination) that results in a shutdown of waste transportation, it could impact task order cost and schedule performance.	Risk	DOE
TO-10-07	Designated Landfills Unavailable	If waste disposal facilities are not available when needed for waste disposal (e.g., due to unforeseen events such as temporary closure due to violations by another DOE prime contractor or significant	Risk	DOE

Subtask 10-1 Fee Risk Ownership				
Risk ID	Title	Statement of Event	Type	Owner
		weather event), then there could be an impact on task order cost and schedule performance.		
TO-10-09	Unexpected Hazards/Conditions (Differing site conditions)	If differing site conditions are encountered that could not have been reasonably foreseen, then there could be an impact on task order schedule and cost performance.	Risk	DOE
TO-10-13	Regulatory Approval Delayed/Additional Requirements Added	If regulators take longer than the prescribed/planned protocols to approve regulatory documents, or impose additional requirements, then task order performance may be impacted.	Risk	DOE
TO-10-15	Delays in internal/external DOE review/approval of required documents	If DOE takes longer than planned to approve procedural documents, then task order cost and schedule may be impacted. Documents may include DOE O 413.3B, Contract Award, Design documents, regulatory documents, waste handling plans, project management plans, etc.	Risk	DOE
TO-10-17	Change in ES&H Requirements - DOE Initiated	If DOE initiates a change to ES&H requirements, then task order cost and schedule performance may be impacted.	Risk/ Opportunity	DOE

Subtask 10-1 Fee Risk Ownership				
Risk ID	Title	Statement of Event	Type	Owner
TO-10-19	Extreme Weather	If an extreme weather event occurs (e.g., rain, heat, cold/snow, high winds/tornado, earthquake), then task order cost, schedule or technical performance may be impacted.	Risk	DOE
TO-10-21	Industrial Accidents	If an industrial accident by another DOE prime contractor occurs that results in a temporary shutdown of field activities, then there may be impacts to task order cost and schedule performance.	Risk	DOE
TO-10-24	Inadequate Infrastructure Space - Non-foreseeable	If local parking, laydown, administrative, training, and changing facilities, are not located at or near the job site, due to unforeseeable circumstance, then shuttle bus service may be needed to get workers to the job site, and additional laydown area accommodations may be needed. Task order cost and schedule performance may be impacted, due to cost of alternative measures and lower worker efficiency.	Risk	DOE

Subtask 10-1 Fee Risk Ownership				
Risk ID	Title	Statement of Event	Type	Owner
TO-10-26	Non-WAC Compliant Waste - Non-Foreseeable	If waste planned for onsite disposal does not meet the onsite disposal Waste Acceptance Criteria (WAC) due to unforeseeable circumstance, then treatment/off-site disposal may be required.	Risk	DOE
TO-10-31	Supply Chain - Material/Equipment Availability - Non-foreseeable	If unforeseeable supply chain issues impact material/equipment availability or lead times, then task order cost and schedule may be impacted.	Risk	DOE
<b><u>TO-10-34</u></b>	<b><u>Change in Planned Quantities Needed</u></b>	<b><u>If planned quantities (i.e., outfall reroutes, well installations, fencing removal) are more or less than estimated, then task order cost and schedule performance may be impacted.</u></b>	<b><u>Risk/Opportunity</u></b>	<b><u>Shared: See Appendix B.9, SubCLIN 0003101b Key Quantities</u></b>
TO-10-36	Contaminated Equipment Not Releasable - Non-foreseeable	If release conditions cannot be met due to unforeseeable and unpreventable conditions, then non-government equipment may need to be dispositioned and purchased by DOE.	Risk/ Opportunity	DOE
TO-10-39	Change in Mission or Policy - DOE Initiated	If DOE initiates mission or policy requirements change, then task order cost and schedule performance may be impacted. Includes other than ES&H related, for example - cyber security.	Risk/ Opportunity	DOE

Subtask 10-1 Fee Risk Ownership				
Risk ID	Title	Statement of Event	Type	Owner
TO-10-41	Insufficient Waste Storage/Treatment Non-Foreseeable	If permitted waste storage facilities or treatment options are insufficient/ineffective and unforeseeable, then task order cost and schedule may be impacted.	Risk	DOE
TO-10-43	NHPA Impacts Non-foreseeable	If National Historic Preservation Act (NHPA) reviews by the Tennessee State Historic Preservation Officer (SHPO) or the Council take longer than the Historic Preservation Plan (HPP) prescribed protocols, such as the Section 106 Recordation, Interpretation and Documentation for the demolition of a facility, or there is disagreement with the recommended interpretive effort then task order performance may be impacted.	Risk	DOE

**Appendix B.9 SubCLIN 0003101b Key Quantities**

<b><u>PWS</u></b>	<b><u>Key Quantities</u></b>	<b><u>Source of Quantity Estimate</u></b>	<b><u>Proposed Threshold (Both Must Be Met)</u></b>	
			<b><u>%</u></b>	<b><u>Cost</u></b>
<b><u>C.5.7.1 ETPP Site Closure</u></b>	<b><u>Mitchell Branch, Outfall 490, and Poplar Creek New Pipe Installation = 11,162 LF</u></b> <b><u>Cured in Place Pipe Installation = 8,635 LF</u></b> <b><u>Ditch Lines = 4,618 LF</u></b> <b><u>Structural Installation = 158 EA</u></b> <b><u>Removal of Existing Pipe = 10,319 LF</u></b> <b><u>Removal of Existing Structure = 117 EA</u></b> <b><u>Pipe Cleaning = 15,063 LF</u></b>	<b><u>Engineering designs and video inspections</u></b>	<b><u>+/- 30%</u></b>	<b><u>+/- \$1,200K</u></b>
	<b><u>Miscellaneous Outfalls New Pipe Installation = 360 LF</u></b> <b><u>Cured in Place Pipe Installation = 1,600 LF</u></b> <b><u>Structural Installation = 2 EA</u></b> <b><u>Removal of Existing Pipe = 1,960 LF</u></b> <b><u>Removal of Existing Structure = 2 EA</u></b> <b><u>Pipe Cleaning = 1,600 LF</u></b>	<b><u>Video inspections</u></b>	<b><u>'+/-25%</u></b>	<b><u>'+/- \$1,750k</u></b>
	<b><u>Fencing = 20,500 LF</u></b>	<b><u>Field walkdown</u></b>	<b><u>+/- 10%</u></b>	<b><u>+/- \$130K</u></b>
	<b><u>Sludge Shipments: 182</u></b>	<b><u>Based on recent actuals (January 2024 - July 2024)</u></b> <b><u>Assumes: 1 shipment per week FY25 - FY27 and 1 shipment every other week for</u></b>	<b><u>+/- 10%</u></b>	<b><u>+/- \$1,200K</u></b>

<u>PWS</u>	<u>Key Quantities</u>	<u>Source of Quantity Estimate</u>	<u>Proposed Threshold (Both Must Be Met)</u>	
			<u>%</u>	<u>Cost</u>
		<u>FY28</u>		
<u>C.3.3.3 Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u>	<u>Remedial Investigation Wells</u> <u>Monitoring wells = 181</u>	<u>Approved CERCLA documents, DQO/DQAs, and existing data</u>	<u>± 20%</u>	<u>+/- \$65K</u>
	<u>Feasibility Study Wells</u> <u>Geotech wells = 20</u> <u>Exit Pathway Wells = 4</u>	<u>Approved CERCLA documents, DQO/DQAs, and existing data</u>	<u>+/-20%</u>	<u>+/-230k</u>
	<u>Remedial Action Wells</u> <u>Injection and monitoring wells = 410</u>	<u>Approved CERCLA documents, DQO/DQAs, and existing data</u>	<u>+/-20%</u>	<u>+/- \$600k</u>