

**U.S Department of Energy  
Oak Ridge Office of Environmental Management  
Task Order**

1. Task Order Number: 89303523FEM400032	2. Task Order Revision Number: 17
3. Task Order Title: Oak Ridge Reservation Cleanup End States Task Order	
4. Date of Task Order – 05/10/2023	
5. Master IDIQ Contract Information:	
a. Contractor Name and Address: United Cleanup Oak Ridge LLC (UCOR) 20501 Seneca Meadows Pkwy, Ste 300 Germantown, MD 208767019	
b. Contract Number: 89303322DEM000067	
6. Description of Work: See attached subtasks	7. Accounting and Appropriation Data: See Clause B.4
8. Task Order Type, Cost, and Fee: Hybrid – See attached subtasks	9. Period of Performance: 05/10/2023-05/09/2033
See attached for all terms and conditions.	

Oak Ridge Cleanup Contract 89303322DEM000067  
89303322DEM000067/89303523FEM400032

United Cleanup Oak Ridge LLC (UCOR)

Subtask: 000382

Subtask 8-2: Mission Support Facility – EMDF Line Item, Subtask 2 –  
GWFD and BOC (Modification 2)



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

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## **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) (herein referred to as the Master IDIQ Contract). Section B of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 are 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**

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

- (1) This is a Cost-Plus-Incentive-Fee type Subtask. 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 Subtask are set forth below:

Target Cost: **\$27,671,452**

Target Fee: \$ 1,039,616\*

Maximum Fee(15%): To be Determined\*

Minimum Fee (0%): To be Determined\*

\* Will be set forth in a modification to this Subtask within 30 days

As specified at Section I clause FAR 52.216-10, *Incentive Fee*, paragraph (e)(1): the fee payable under this contract 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 fifteen (15) percent or less than zero percent of the target cost.

- (2) In accordance with the clause at FAR 52.216-10, *Incentive Fee*, the target cost and target fee increase and decrease ratios applicable to the following Subtask Contract Line Item(s) will be set forth in a modification to this Subtask within 30 days:

**Table B-2. Subtask CLIN Structure**

CLIN/ SubCLIN	CLIN/SubCLIN Title	CLIN Type	Target Cost**	Target Fee**	Fee Increase/Decrease Ratio
00003	ORRCC End State Task Orders 89303322DEM000067/ 89303523FEM400032				
000382	Subtask 8-2: Mission Support Facility - EMDF, Subtask 2 - GWFD and BOC)	CPIF	<u>\$13,859,140</u>	To be determined *	As described in B.2.(c)(1)
000382-1 (Option)	Subtask 8-2: Mission Support Facility - EMDF, Subtask 2 - GWFD and BOC) – <b>PRICED OPTION</b>	CPIF	\$12,995,198	\$1,039,616	To be set forth in a modification to this Subtask within <u>30</u> days
<u>000382-2</u> (Option)	<u>Subtask 8-2: EMDF</u> <u>Merchantable Timber</u> <u>Harvesting – PRICED</u> <u>OPTION</u>	<u>CPIF</u>	<u>\$817,114</u>	<u>To be</u> <u>determined *</u>	<u>As described in</u> <u>B.2.(c)(1)</u>

\* Will be set forth in a modification to this Subtask within 30 days

**Acronyms:**

BOC Balance of Phase I Construction  
CLIN Contract Line Item Number  
CPIF cost-plus-incentive-fee

EMDF Environmental Management Disposal Facility  
GWFD Groundwater Field Demonstration  
ORRCC Oak Ridge Reservation Cleanup Contract

*\*\*This Subtask is subject to reopening pending receipt of audit of UCOR currently in process 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.*

- (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.

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

In accordance with Clause B.9 *Basis for Change*, of the Master IDIQ Contract, the identification of fee risk ownership for both the Government and the Contractor is set forth in Attachment B.9 to this Subtask.

## **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.

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

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

The Contractor shall perform the requirements of this Subtask in accordance with the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 and the following:

#### **PERFORMANCE BASED STATEMENT OF WORK**

#### **Subtask 8-2: Mission Support Facility – EMDF Line Item**

### **1.0 INTRODUCTION**

This is an end states Subtask. The desired outcome for *Mission Support Facility – EMDF Line Item* is the completed design, construction, and startup of the new onsite CERCLA disposal facility (the EMDF) to support uninterrupted cleanup activities on the ORR.

The EMDF is a Line-Item construction project (17-D-401) that is planned to be executed under tailored critical decision approval(s) as three DOE Order 413.3B phased subprojects:

- Subproject 1: Early Site Preparation (ESP)
- Subproject 2: Groundwater Field Demonstration (GWFD)
- Subproject 3: Balance of Phase I Construction, including the wastewater treatment system and support facilities (BOC)

Completion of these phased subprojects is structured in two Mission Support Facility – EMDF Subtasks, as follows:

**Mission Support Facility - EMDF Subtask 8-1 (Subtask 000381, Attachment J-15-3-08-01):** Includes the completion of Subproject 1, Early Site Preparation (ESP) Construction as defined in the Subtask Section 3.0, *Scope* following applicable Critical Decision approval by the Project Management Executive (PME).

**Mission Support Facility - EMDF Subtask 8-2 (Subtask 000382, Attachment J-15-3-08-02):** Includes completion of Subproject 2, Groundwater Field Demonstration (GWFD) and Subproject 3, Balance of Phase I Construction (BOC) as defined in Subtask Section 3.0, *Scope*.

- **Modification 2 awards EMDF Marketable Timber Harvesting as defined in Section 3.0, *Scope*. The SubCLIN 000382-2 Priced Option may be authorized in a future modification to this Subtask.**
- Modification 1 awards Subtask 8-2 Project Management, Project Support, and Site Maintenance as defined in Section 3.0, *Scope*.
- A portion of Subtask 2 was initially awarded as a Priced Option.
- The balance of Subtask 2 will be incorporated in a future modification to this Subtask.
- The **SubCLIN 000382-1** Priced Option will be authorized to proceed in parallel with the balance of Subtask 2 in a future modification to this Subtask.

The Contractor shall ensure the EMDF Subtask 8-1 scope is integrated with EMDF Subtask 8-2, and other Subtasks, as necessary.

## 2.0 BACKGROUND

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remediation of facilities that are contaminated by historical Manhattan Project and Cold War activities is the major focus of the OREM Program. This cleanup mission is projected to take the next 25 years to complete and will result in large volumes of radioactive, hazardous, and mixed waste requiring disposal. The current onsite disposal cell is nearing capacity and the remaining estimated volumes will require approximately 2.2 million yd<sup>3</sup> of disposal capacity. The Environmental Management Disposal Facility (EMDF) will be built to provide this capacity in phases so only the capacity that is needed is constructed. The EMDF will be built to meet Resource Conservation and Recovery Act and Toxic Substances Control Act requirements as well as those from DOE O 435.1 for disposal of low-level (radioactive) waste.

The EMDF project includes final design of an engineered land disposal facility with multiple cells and up to approximately 2.2 million yd<sup>3</sup> of capacity; a landfill wastewater collection and treatment system; all support infrastructure (e.g., utilities, personnel facilities); and a conceptual level design of the final cover. The Phase I construction of the facility will provide approximately one-third of the total capacity and fully construct the support infrastructure/facilities (e.g., the landfill wastewater treatment system, personnel facilities, utility systems).

### **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.4 CERCLA Disposal Facility Construction (Y-12)**

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 end state completion objectives into the Subtask:

#### **Subtask 8-2: Mission Support Facility – EMDF, Subtask 2**

##### **Modification 2:**

##### **C.4.1 CERCLA Disposal Facility Design**

The Subtask 8-2 end state to be completed includes:

- Provide project management, project support, and site maintenance for completion of the design, Phase I construction, and start-up of the EMDF as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 PWS C.4.
- Site maintained in accordance with regulatory requirements until the Groundwater Field Demonstration construction is complete.
- **Fell and load 45 acres of merchantable trees from EMDF site.**

#### **Subtask 8-2: EMDF Merchantable Timber Harvesting (CLIN/SubCLIN 00382-2 Priced Option)**

##### **C.4.1 CERCLA Disposal Facility Design**

**The EMDF Merchantable Timber Harvesting interim end state to be completed includes:**



- **Handling and mulching 45 acres of merchantable timber from the EMDF site.**

**Subtask 8-2: Mission Support Facility – EMDF, Subtask 2 (SubCLIN 00382-1  
Priced Option)**

**C.4.2 CERCLA Disposal Facility Construction**

The Subproject 2, GWFD interim end state to be completed includes:

- Borrow Area 7b developed
- Water and electrical utility lines extended to site boundary and construction support area trailer, old electrical lines in footprint of EMDF removed, and hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed.
- Assume up to 2% of excavated materials will be contaminated, requiring characterization and waste segregation prior to disposal.
- Long-lead electrical utility procurements shall allow for installation of the future communication lines.

**4.0 APPLICABLE DIRECTIVES**

In addition to the Directives included in the Master IDIQ Contract Attachment J-2, Directives specific to this Subtask are included in Attachment J-2-8.

**5.0 INTERFACES**

In addition to the Interfaces included in the Master IDIQ Contract Attachment J-3, Interfaces specific to this Subtask are included in Attachment J-3-8.

**6.0 DELIVERABLES**

In addition to the Deliverables included in the Master IDIQ Contract Attachment J-7, Deliverables specific to this Subtask are included in Attachment J-7-8.

**7.0 GOVERNMENT-FURNISHED SERVICES AND INFORMATION**

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

**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>Subtask 8-2, Mission Support Facility – EMDF, Subtask 2</b>	
<b>End State Requirement</b>	<b>Work Scope/Completion Criteria</b>
<p>Modification 1:</p> <p>Provide project management, project support, and site maintenance for completion of the design, Phase I construction, and start-up of the EMDF as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 PWS C.4.</p>	<p>Modification 1:</p> <ul style="list-style-type: none"> <li>• Project management and project support provided through completion of Phase I construction (includes approximately one-third of 2.2 million cubic yards of disposal capacity) and start-up of the EMDF.</li> <li>• Site maintained in accordance with regulatory requirements through GWFD Construction completion.</li> </ul>
<p><b><u>Modification 2:</u></b></p> <p><b><u>Fell and load 45 acres of merchantable timber from the EMDF.</u></b></p>	<ul style="list-style-type: none"> <li>• <b><u>Complete subcontractor submittals, mobilization, and training.</u></b></li> <li>• <b><u>Complete tree felling operations and erosion control measures.</u></b></li> <li>• <b><u>Complete handling of felled trees that will be transferred to a third party: drag to nearby staging area for transport and load onto transport truck of third party.</u></b></li> </ul>
<p>For Subproject 2, GWFD: Borrow Area 7b developed (<b>Priced Option</b>)</p>	<ul style="list-style-type: none"> <li>• Limits of borrow area 7b cleared and grubbed.</li> <li>• Stormwater controls including sediment pond constructed.</li> <li>• Vegetation waste managed.</li> <li>• Contaminated soils/excavated materials packaged and disposed.</li> <li>• Borrow area 7b developed and ready for intended use as borrow area.</li> </ul>

<b>Subtask 8-2, Mission Support Facility – EMDF, Subtask 2</b>	
<b>End State Requirement</b>	<b>Work Scope/Completion Criteria</b>
For Subproject 2, GWFD: Water and electrical utility lines extended to site boundary and construction support area trailer, old electrical lines in footprint of EMDF removed, and hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed <b>(Priced Option)</b>	<ul style="list-style-type: none"> <li>• Electrical power lines and potable water lines to EMDF support area installed in accordance with design specification.</li> <li>• Installed poles ready for installation of telecommunication lines.</li> <li>• Old lines in EMDF footprint removed and disposed.</li> <li>• Hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed and disposed.</li> <li>• Water line tie-in and permit complete in coordination with City of Oak Ridge.</li> <li>• Acceptable certification test completed and documented.</li> <li>• As-built drawings complete.</li> <li>• Contaminated soils/excavated materials packaged and disposed.</li> </ul>
<b><u>Modification 2:</u></b>  <b><u>Handling and mulching 45 acres of merchantable timber from the EMDF site.</u></b>	<ul style="list-style-type: none"> <li>• <b><u>Complete handling of felled trees that will not be transferred to a third party: drag to nearby staging area for transport, load onto a transport truck, relocate to nearby staging area, off-load and stack.</u></b></li> <li>• <b><u>Complete mulching of merchantable timber that is not going to be sold/retrieved by a third party and transport the mulch to East Tennessee Technology Park (ETTP).</u></b></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, if applicable. The performance objectives and standards are as follows:

<b>Subtask 8-2, Mission Support Facility – EMDF, Subtask 2</b>	
<b>Objectives</b>	<b>Standard</b>
Construct utilities in accordance with approved designs, standards and practices <b>(Priced Option)</b>	No more than two corrective deficiencies issued by DOE
Safety and Operational Performance	See ORRCC PMI Plan
Meeting Regulatory or Court Ordered Milestones	See ORRCC PMI Plan

<b>Subtask 8-2, Mission Support Facility – EMDF, Subtask 2</b>	
<b>Objectives</b>	<b>Standard</b>
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 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 Period of Performance (POP) for Subtask 8-2 (SubCLIN 000382) is from November 16, 2023 through May 26, 2030. The Contractor is expected to accomplish all of the completion criteria as defined in Section C within and/or at the end of the Subtask period of performance (POP). The Period of Performance (POP) for SubCLIN 000382-1 (Priced Option) **and SubCLIN 000382-2** is not yet authorized.
- (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 Officers
    - (A) Name: John Phelps
    - (B) Telephone number: 865/576-1147
    - (C) Address:
      - U.S. Department of Energy
      - Oak Ridge Office of Environmental Management
      - 200 Administration Road
      - Oak Ridge, TN 37830
    - (D) Email address: [John.Phelps@orem.doe.gov](mailto:John.Phelps@orem.doe.gov)
    - (E) Name: Karen Shears

(F) Telephone number: 865/241-6411

(G) Address:

U.S. Department of Energy  
Oak Ridge Office of Environmental Management  
200 Administration Road  
Oak Ridge, TN 37830

(H) Email address: Karen.Shears@orem.doe.gov

(2) Subtask Contracting Officer's Representative

(A) Name: Brian Henry

(B) Telephone number: 865-241-8340

(C) Address:

U.S. Department of Energy  
Oak Ridge Office of Environmental Management  
200 Administration Road  
Oak Ridge, TN 37830

(D) Email address: Brian.Henry@orem.doe.gov

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

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

None.

## **Section I – Contract Clauses**

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

None.

## **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-2 – Directives**

Attachment J-2-8 includes the following additional directives for this Subtask:

None.

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

Attachment J-3-8 includes the following additional interfaces for this Subtask:

None.

### 3. Attachment J-5 – Small Business Subcontracting Goals

The following goals for this Subtask are appended to the Master Small Business Subcontracting Plan:

**Table J-5-8a. Subtask 8-2 Small Business Subcontracting Goals**

Category	Total to be Subcontracted (\$)	Minimum Small Business Goals as a percent of total subcontracted dollars
<b>Total Subcontracted</b>	To be incorporated in a modification to this Subtask within <b><u>30</u></b> days	
Total Small Business Subcontracts	To be incorporated in a modification to this Subtask within <b><u>30</u></b> days	45%
Veteran-Owned Small Business (VOSB)	To be incorporated in a modification to this Subtask within <b><u>30</u></b> days	3%
Service-Disabled Veteran-Owned Small Business (SDVOSB)	To be incorporated in a modification to this Subtask within <b><u>30</u></b> days	3%
Historically Underutilized Business Zone (HUBZone)	To be incorporated in a modification to this Subtask within <b><u>30</u></b> days	3%
Small Disadvantaged Business	To be incorporated in a	5%

Category	Total to be Subcontracted (\$)	Minimum Small Business Goals as a percent of total subcontracted dollars
	modification to this Subtask within <u>30</u> days	
Women-owned Small Business	To be incorporated in a modification to this Subtask within <u>30</u> days	5%

In accordance with Clause H.52, *Subcontracted Work*, Government-Provided Costs for Reservation Management and Post-Retirement Benefits and Long-Term Disability and Pension Contribution, and estimated costs for services acquired under parent organization support plan and for the site usage fees provided to other site contractors are included in the Subtask value, but not included in the cumulative Subtask value for subcontracting goals, are provided in Table J-5-8b.

**Table J-5-8b. Subtask 8-2 Costs Not Included in Subcontracting Goals**

Reservation Management	Not applicable
Post-Retirement Benefits and Long-Term Disability and Pension Contribution	Not applicable
Site Usage Fees	Not applicable
Services Acquired under Parent Organization Support Plan	To be incorporated in a modification to this Subtask within <u>30</u> days

#### **4. Attachment J-7, Contract Deliverables**

Attachment J-7-8, Contract Deliverables, includes the following additional deliverables for this Subtask:

To be incorporated in a modification to this Subtask within 30-days.

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

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



Attachment J-8-8, Subtask Specific GFS/I	
GFS/I	REQUIREMENT
None	

**Appendix B.9:**

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

<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Type</b>	<b>Owner</b>
TO-8-03	Ineffective Execution	If project management execution is not effective, in that other DOE program offices contractors, EM prime contractors, or other agreements established under Memorandum of Agreement(s) cannot fulfill DOE's commitments to UCOR, then Subtask schedule and cost performance may be impacted.	Risk	DOE
TO-8-04	Changes in Security Requirements	If federal security requirements increase, then cost and schedule performance may be impacted.	Risk	DOE
TO-8-05	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, then cost and schedule performance may be impacted.	Risk	DOE
TO-8-07	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 weather event), then schedule and cost performance may be impacted.	Risk	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-09	Unexpected Hazards/Conditions	If differing site conditions are encountered that could not have been reasonably foreseen, then schedule and cost performance may be impacted. Includes unexpected contamination.	Risk	DOE
TO-8-13	Design(s) Changes Needed	If DOE directs changes (outside from additional regulatory requirements or changes to DOE policy/mission) to designs/technical approaches once design is finalized, then technical cost, schedule and performance could be impacted.	Risk	DOE
TO-8-14	Regulatory Approval Delayed/Additional Requirements Added	If regulators take longer than the prescribed/planned protocols to approve regulatory documents, or impose additional requirements, then schedule and cost performance may be impacted.	Risk	DOE
TO-8-16	Delays in internal/external DOE approval of required documents	If DOE takes longer than planned to approve procedural documents, then cost and schedule performance 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-8-18	Change in ES&H Requirements - DOE Initiated	If DOE initiates ES&H requirements change, then cost and schedule performance may be impacted.	Risk/ Opportunity	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-20	Extreme Weather	If an extreme weather event occurs (e.g., rain, heat, cold/snow, high winds/tornado, earthquake), then cost, schedule or technical performance may be impacted.	Risk	DOE
TO-8-22	Industrial Accidents	If an industrial accident by another DOE prime contractor occurs that results in a temporary shutdown of field activities, then schedule and cost performance may be impacted.	Risk	DOE
TO-8-25	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. Subtask cost and schedule performance may be impacted due to cost of alternative measures and lower worker efficiency.	Risk	DOE
TO-8-27	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

Risk ID	Title	Statement of Event	Type	Owner
<u>TO-8-31</u>	<u>Bids Differ from Estimates</u>	<u>If subcontractor/supplier bids are less or greater than estimates (including supply chain &amp; inflation impacts), then project cost and schedule performance may be impacted.</u>	<u>Risk/ Opportunity</u>	<u>Shared: UCOR will include mitigation for for Tree Felling subcontractor Change Orders increasing the estimated cost by up to 5%.</u>
TO-8-32	Change in Planned Quantities Needed	If planned quantities or work processes (i.e., materials, characterization/ verification samples, waste/soil volumes) are more or less than estimated, then cost and schedule performance may be impacted.	Risk/ Opportunity	Shared: UCOR will include mitigation for up to 5% of excavated materials for Borrow Area 7b development and utility installations being contaminated, requiring characterization and segregation prior to disposal. This mitigation includes [TBD] of contaminated soil with [TBD] swell to be removed, packaged, and shipped for disposal.
TO-8-35	Contaminated Equipment Not Releasable	If release conditions cannot be met due to unforeseeable and unpreventable conditions, then non-government equipment may need to be purchased and dispositioned.	Risk/ Opportunity	DOE
TO-8-36	Change in Mission or Policy - DOE Initiated	If DOE initiates mission or policy requirements change, then Subtask cost and schedule performance may be impacted. Includes other than ES&H related, for example - cyber security.	Risk/ Opportunity	DOE

<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Type</b>	<b>Owner</b>
TO-8-38	Supply Chain - Material/Equipment Availability - Non-foreseeable	If unforeseeable supply chain issues impact material/equipment availability or lead times, then Subtask cost and schedule may be impacted.	Risk	DOE