STATEMENT OF WORK

Fuel-Contaminated Soil Excavation, Packaging, Transportation, Disposal & Site Restoration

and

Product Recovery Tank Wastewater Removal & Disposal

Building 26200 / Pumphouse 1 Area
36th Logistics Readiness Squadron (LRS) POL Compound
Andersen Air Force Base, Guam

1.0 PURPOSE AND BACKGROUND

The Contractor shall provide all labor, supervision, equipment, materials, tools, transportation, packaging, sampling, laboratory analysis, and disposal services necessary to remediate residual petroleum-impacted soil and remove fuel-contaminated wastewater at the 36th Logistics Readiness Squadron (LRS) Petroleum, Oils, and Lubricants (POL) Compound, Andersen Air Force Base (AFB), Guam. The work addresses contamination associated with a fuel release near Building 26200 / Pumphouse 1 Generator and the contents of the Product Recovery Tank at Pumphouse 1.

The objective is to excavate and remove fuel-impacted soils to achieve the applicable cleanup goals, properly package, transport, and dispose of all generated waste (soil and liquid), confirm attainment of cleanup standards through laboratory analysis, and restore the excavated area to match surrounding grade and pre-existing conditions. All work shall be performed in a manner that minimizes disruption to flight operations and base activities.

2.0 SCOPE OF WORK

The Contractor shall furnish all resources required to accomplish the following primary elements of work:

- **Soil Remediation:** Excavate, field-screen, package, transport, and dispose of up to ten (10) cubic yards of fuel-contaminated soil; collect and analyze confirmation samples; and restore the excavation.
- **Liquid Waste Removal:** Remove, containerize or vacuum, transport, and dispose of up to one thousand five hundred (1,500) gallons of fuel-mixed wastewater from the Product Recovery Tank at Pumphouse 1.
- **Documentation & Closeout:** Provide all required field records, analytical data, waste manifests, disposal certificates, photographs, and a final closeout report.

Estimated Quantities (Base Scope): Up to 10 cubic yards of petroleum-impacted soil and up to 1,500 gallons of fuel-contaminated water. These quantities are estimates based on available information (approximate spill volume 50–60 gallons of middle-distillate / residual fuel product). Actual quantities will be determined by field conditions.

Additional Soil: If field screening and observations indicate that contamination extends beyond the base quantity of 10 cubic yards, the Contractor shall continue excavation, packaging, and disposal only upon written authorization from the Contracting Officer (CO). Additional soil will be compensated at the pre-negotiated unit rate established in the contract schedule.

3.0 APPLICABLE DOCUMENTS AND STANDARDS

The Contractor shall comply with the most current versions of the following (and any other applicable federal, DoD, Air Force, Guam, or installation requirements):

- Tropical Pacific Edition, Fall 2017, Commercial/Industrial Environmental Screening Levels (ESLs) – cleanup goals of 500 mg/kg middle distillates and 2,500 mg/kg residual oil.
- U.S. Environmental Protection Agency (USEPA) Method 8015 (Total Petroleum Hydrocarbons – diesel range and residual range organics / motor oil).
- Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response – HAZWOPER).
- Department of Transportation (DOT) hazardous materials packaging, labeling, and transportation regulations (49 CFR).
- Andersen AFB environmental, safety, security, and traffic control procedures and instructions.
- All applicable federal, territorial (Guam), and local environmental regulations governing waste characterization, transportation, and disposal.

4.0 TECHNICAL REQUIREMENTS AND PERFORMANCE STANDARDS

4.1 Mobilization, Access, and Site Preparation

- The Contractor shall mobilize all necessary personnel, equipment, materials, packaging supplies, and secondary containment to the site.
- The Contractor shall obtain an Entry Authorization Letter (EAL) or base passes for all personnel and vehicles. EAL / base pass requests shall be submitted to the Contracting Office no later than three (3) calendar days after contract award.
- The Government will facilitate gate entry support during mobilization and demobilization. No Government-furnished equipment, vehicles, or labor will be provided for excavation, packaging, loading, hauling, sampling, or restoration.
- Prior to excavation, the Contractor shall coordinate with 36 CES to gain proper clearance to excavate and or shut down utilities in the area if necessary via form AF103.
- Prior to excavation, the Contractor shall place a minimum 10-mil polyethylene liner on the ground surface adjacent to the work area to serve as a clean staging/packaging pad. All excavated soil shall be placed directly into packaging containers on this liner to prevent secondary contamination of clean surfaces.
- The Contractor shall establish appropriate temporary traffic control, exclusion zones, and storm-water / runoff controls as required by base procedures and site conditions.

4.2 Fuel-Impacted Soil Excavation and Field Screening

- The Contractor shall utilize a mini-excavator (or equivalent suitable equipment) operated by qualified personnel to excavate petroleum-impacted soils.
- Excavation shall continue laterally and vertically until field observations indicate that remaining soils meet the cleanup goals. Field guidance shall consist of:
  - Continuous olfactory (odor) observations; and
  - Photoionization detector (PID) readings using a calibrated handheld instrument. The Contractor shall maintain calibration records and document all PID readings in the field log.
- Target cleanup standards (Tropical Pacific Edition Fall 2017 Commercial/Industrial ESLs):
  - Middle distillates (diesel-range organics): ≤ 500 mg/kg
  - Residual oil / motor oil: ≤ 2,500 mg/kg
- All excavated soil shall be packaged directly into one-cubic-yard (1-CY) DOT-approved, lined flexible intermediate bulk containers (FIBCs / lift bags) or equivalent approved packaging. Bags shall be properly closed, labeled, and staged for transport.
- The Contractor shall document the approximate volume of soil removed, locations of excavation, field screening results, and photographic evidence of the excavation progress.

4.3 Confirmation Sampling and Laboratory Analysis

- When field screening (olfactory and PID) indicates that remaining soils within the excavation are at or below cleanup goals, the Contractor shall collect confirmation samples as follows:
  - One (1) composite sample from the excavation floor (bottom);
  - Composite or discrete samples from the excavation sidewalls (minimum of one composite representing the sidewalls, or discrete samples from each major sidewall face as directed by the Government POC or as necessary to adequately characterize the remaining soils); and
  - A representative sample of the excavated/packaged soil (for waste characterization or verification, if required by the disposal facility or Government).
- Samples shall be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel-range organics and residual-range organics / motor oil by a certified laboratory using USEPA Method 8015.
- Laboratory turnaround time shall be three (3) business-day rush. The laboratory shall be accredited (NELAP, DoD ELAP, or equivalent recognized accreditation).
- The Contractor shall submit the complete laboratory report(s), chain-of-custody forms, and a brief summary of results to the Government POC and Contracting Officer immediately upon receipt.
- **Backfilling shall not commence until the Government has reviewed the confirmation results and provided written or documented verbal authorization that cleanup goals have been achieved.**

4.4 Product Recovery Tank and Fuel Bowser Wastewater Removal

- The Contractor shall remove up to 900 gallons of fuel-contaminated wastewater / product from the Product Recovery Tank located at Pumphouse 1, additionally 1 Fuel Bowser with 600 gallons of fuel-contaminated wastewater (combined total of approximately 1500 gallons).
- Removal shall be performed using appropriate methods (e.g., vacuum truck, portable pumps with secondary containment, or equivalent) that prevent spills, releases, or further contamination of soil or storm-water systems.
- All liquid waste shall be properly containerized, labeled, characterized as required for disposal, manifested, transported, and disposed of at an approved, licensed off-base environmental disposal facility.
- The Contractor shall coordinate tank access, any required confined-space or lock-out/tag-out procedures, and verification that the tank has been emptied to the extent practicable with the Government POC.

4.5 Transportation and Disposal

- All contaminated soil and liquid waste shall be transported off Andersen AFB to an approved, licensed environmental treatment, storage, or disposal facility (TSDF) that is authorized to accept the waste streams.
- The Contractor shall prepare all required waste profiles, manifests, shipping papers, and labels in accordance with DOT and applicable environmental regulations. The Government shall be listed as the generator where required; the Contractor shall coordinate generator signature authority with the Contracting Officer / Environmental POC.
- The Contractor shall provide the Government with complete copies of all manifests, certificates of disposal / recycling, and any residual tracking documentation within five (5) business days of final disposal or as otherwise required by the facility.
- No contaminated media shall be stockpiled on-base longer than necessary. Any temporary stockpiles awaiting confirmation results or transport shall be fully covered with heavy-duty plastic sheeting and secured against wind and rainfall runoff.

4.6 Site Restoration

- Upon Government acceptance of confirmation analytical results demonstrating that cleanup goals have been met, the Contractor shall remobilize equipment (if demobilized) and restore the excavation.
- Backfill shall consist of imported, clean, certified fill material free of petroleum hydrocarbons, debris, and other contaminants. The Contractor shall provide documentation of the source and cleanliness of the backfill material upon request.
- Backfill shall be placed in lifts and compacted with the mini-excavator or other suitable equipment to return the area to match the surrounding existing grade and to minimize future settlement. Final surface shall be free of ruts, depressions that pond water, or other deficiencies that create safety or operational hazards.
- The restored area shall, to the maximum extent practicable, match the pre-existing surface condition (e.g., compacted gravel, soil, or as otherwise present).

4.7 Safety, Environmental Compliance, and Personnel Qualifications

- All work shall be performed in accordance with OSHA-compliant safe work practices, including 29 CFR 1910.120 (HAZWOPER). Personnel handling hazardous materials or performing excavation of contaminated soils shall be appropriately trained and current in their certifications.
- Appropriate personal protective equipment (PPE) shall be worn at all times during hazardous material handling, excavation, packaging, and sampling activities.
- All Contractor equipment (mini-excavator, transport vehicles, containers, etc.) shall be clearly marked with the company name and a contact telephone number. Equipment shall arrive on base clean, free of fluid leaks, and in good operable condition.
- In the event of inclement weather, high winds, or other conditions that could cause runoff or hazards, the Contractor shall immediately secure the excavation, fully cover any stockpiled or packaged soil with heavy-duty plastic sheeting, and ensure all equipment is safely parked, locked, and secured.
- The Contractor shall comply with all Andersen AFB environmental, safety, security, and operational procedures. Any spills or releases caused by Contractor operations shall be immediately contained, reported to the Government POC and base environmental office, and cleaned up at no additional cost to the Government.

5.0 PLACE OF PERFORMANCE

All work shall be performed at the 36th LRS POL Compound, Andersen Air Force Base, Guam. Specific work locations include the vicinity of Building 26200 near Pumphouse 1 Generator, Pumphouse 1 (Building 26201), the Product Recovery Tank, and associated Fuel Bowser area, as identified and marked by the Government Point of Contact.

6.0 DELIVERABLES

The Contractor shall submit the following deliverables:

1. **Daily Field Reports / Logs:** Including personnel on site, equipment used, quantities excavated/packaged/removed, PID and olfactory observations, weather conditions, photographs, and any issues or deviations. Submit by close of business the following work day or as otherwise directed.
2. **Confirmation Sample Documentation:** Chain-of-custody forms, laboratory reports (TPH diesel and residual/motor oil via EPA 8015), and a brief results summary. Submit immediately upon receipt of laboratory data.
3. **Waste Documentation:** Waste profiles, signed manifests, certificates of disposal or recycling, and any related correspondence. Submit within five (5) business days of final disposal.

4. **Photographic Documentation:** Before, during, and after photographs of the excavation, packaging, tank emptying, and restored site conditions.
5. **Final Closeout Report:** A concise report summarizing the work performed, actual quantities of soil and liquid removed, field screening summary, confirmation analytical results with comparison to cleanup goals, waste disposition, restoration activities, and any recommendations. Include all supporting documentation as appendices. Submit within ten (10) calendar days after completion of restoration.
6. **Base Access Documentation:** EAL / base pass requests submitted no later than three (3) days after award.

7.0 ACCEPTANCE CRITERIA

The Government will accept the work when all of the following have been met:

- Confirmation laboratory results demonstrate that remaining soils meet or are below the cleanup goals of 500 mg/kg middle distillates and 2,500 mg/kg residual oil.
- All excavated soil and removed liquid waste have been properly packaged, manifested, transported, and disposed of at licensed facilities, with complete documentation provided to the Government.
- The excavation has been backfilled with clean certified material, compacted, and restored to match surrounding grade without creating safety or operational hazards.
- All required deliverables (field logs, analytical reports, manifests, certificates of disposal, photographs, and final closeout report) have been submitted and are complete and accurate.
- No unresolved environmental releases, safety deficiencies, or base procedure violations attributable to Contractor performance remain.

8.0 GOVERNMENT-FURNISHED PROPERTY, INFORMATION, AND SERVICES

- Gate entry facilitation / escort support during mobilization and demobilization (as available).
- Identification of the specific areas of concern and Product Recovery Tank access by the Government Point of Contact.
- Project Points of Contact (names, phone numbers, email) will be provided post-award.
- **No Government-furnished equipment, vehicles, tools, packaging materials, laboratory services, or labor will be provided for the performance of this work.**

9.0 POINTS OF CONTACT AND ADMINISTRATION

Technical and site coordination Points of Contact will be designated by the Contracting Officer after award. All formal direction, changes in scope, authorization for additional quantities, and acceptance decisions shall be issued only by the Contracting Officer.

Any proposed changes to methods, quantities beyond the base scope, schedule, or cleanup approach require prior written approval of the Contracting Officer.

— End of Statement of Work —