Final

Project Management Plan
for
Parcel 21 – Solid Waste Management Unit 1, Parcel 24 – Igloo Block A, and Abandonment of Wells

Fort Wingate Depot Activity
McKinley County, New Mexico

November 25, 2014

Contract No. W9128F-13-D-0025
Task Order No. DS01

Prepared for:

US Army Corps of Engineers
Tulsa District
1645 South 101st East Avenue
Tulsa, OK 74128

Prepared by:

Zapata Incorporated
6302 Fairview Road, Suite 600
Charlotte, North Carolina 28210

REPORT DOCUMENTATION PAGE

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Fort Wingate Depot Activity
McKinley County, New Mexico

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Steve Morrissette/ZAPATA
James Lord/ZAPATA

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Zapata Incorporated
6302 Fairview Road, Suite 600
Charlotte, North Carolina 28210

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U.S. Army Corps of Engineers, Tulsa District
1645 South 101st East Avenue
Tulsa, OK 74128

Project Manager: Mr. David Henry (CESPA-ECEG)

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14. ABSTRACT
The purpose of this Project Management Plan (PMP) is to summarize our approach to performing the tasks described in the Performance Work Statement and outlines the deliverables, project schedule, technical approach, project team roles and responsibility, and milestones to be used in the planning, execution, and completion of the project.

15. SUBJECT TERMS
Fort Wingate Depot Activity, Interim Measures for Parcel 21 – SWMU 1, Parcel 24 – Igloo Block A, and Abandonment of Wells.

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Final

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Interim Measures for
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Document Distribution – Final (Version 2)

Organization (Name)	Number of Printed Hard Copies	Number of Electronic Copies (PDF on CD)
David Henry (USACE SPA)	1	1
Mark Patterson (FWDA BEC)	1	1
FWDA Admin Record	1	2
Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
D.J. Myers - OESS - USACE SWF*	0	0
Neal Navarro - Regional Support Center (USACE SPK)*	0	0
Administrative Record (OH)	0	1
Bill O'Donnell (BRACD)	0	1
Totals	**4**	**8**

BIA-NR = Bureau of Indian Affairs – Navajo representative
BIA-Z = Bureau of Indian Affairs – Zuni representative
BRACD = U. S. Army Base Realignment and Closure Division
DOI/BLM = Department of Interior Bureau of Land Management
EPA 6 = U. S. Environmental Protection Agency Region 6
FWDA ARM = Fort Wingate Depot Activity Administrative Records Manager
FWDA BEC = Fort Wingate Depot Activity Base Realignment and Closure Environmental Coordinator
FWDA EIMS = Fort Wingate Depot Activity Environmental Information Management System
NMED = New Mexico Environment Department
NN = Navajo Nation
POZ = Pueblo of Zuni
USACE SPA = U. S. Army Corps of Engineers – Albuquerque District.*
USACE SPK = U. S. Army Corps of Engineers – Sacramento District.*
USACE SWF = U. S. Army Corps of Engineers – Fort Worth District
USAEC = U. S. Army Environmental Command

*For MEC (Munitions and Explosives of Concern) investigations only.

DOCUMENT CERTIFICATION
NOVEMBER 2014

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____

Mr. Steven W. Smith, P.E.
Fort Wingate Program Manager

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Acronym Page

AHA	Activity Hazard Analysis/Analyses
APP	Accident Prevention Plan
AOC	Area of Concern
BRAC	Base Realignment and Closure
CESPA	US Army Corps of Engineers, Albuquerque District
CESWF	US Army Corps of Engineers, Fort Worth District
CESWT	US Army Corps of Engineers, Tulsa District
COR	Contracting Officer Representative
CY	Cubic Yards
DDESB	Department of Defense Explosives Safety Board
DoD	Department of Defense
DOI	Department of Interior
EPA	Environmental Protection Agency
EPP	Environmental Protection Plan
ft.	Feet
FWDA	Fort Wingate Depot Activity
GCAL	Gulf Coast Analytical Laboratories
HWB	Hazardous Waste Bureau
IM	Interim Measures
IMWP	Interim Measures Work Plan
NFA	No Further Action
KO	Contracting Officer
MSW	Municipal Solid Waste
NCAR	Nonconformance and Corrective Action Reporting
NM	New Mexico
NMAC	New Mexico Administrative Codes
NMDOT	New Mexico Department of Transportation
NMED	New Mexico Environmental Department
NMOSE	New Mexico Office of the State Engineer
MEC	Munitions Explosive of Concern

PM	Project Manager
PMP	Project Management Plan
PWS	Performance Work Statement
QA	Quality Assurance
QASP	Quality Assurance Surveillance Plan
RAR	Release Assessment Report
RCRA	Resource Conservation and Recovery Act
RSL	Regional Screening Levels
SOP	Standard Operating Procedures
SPCC	Spill Prevention, Control, and Countermeasures
SSL	Soil Screening Levels
SSHO	Site Safety and Health Officer
SSHP	Site Specific Health and Safety Plan
SUXOS	Senior UXO Supervisor
SVOCs	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TNT	Trinitrotoluene
TO	Task Order
UHC	Underlying Hazardous Constituent
USACE	United States Army Corps of Engineers
UXO	Unexploded Ordnance
WBS	Work Breakdown Structure
ZAPATA	Zapata Incorporated

1.0 INTRODUCTION

The purpose of this Project Management Plan (PMP) is to summarize the Zapata Incorporated (ZAPATA) approach to performing the tasks described in the Performance Work Statement (PWS) from the US Army Corps of Engineers (USACE), Tulsa District (CESWT), for the Interim Measures (IM) for Parcels 21-Solid Waste Management Unit (SWMU) No. 1 and 24 - Igloo Block A and Abandonment of wells, Fort Wingate Depot Activity (FWDA), New Mexico (NM) dated 24 June 2014 (Appendix A) and subsequent clarifications. The PMP outlines the deliverables, project schedule, technical approach, project team roles and responsibility, and milestones to be used in the planning, execution, and completion of the work outlined in the PWS.

This document may be updated periodically, as required, to reflect the US Army Contracting Officer Representative (COR)-approved revisions to the performance objectives, resources, schedule, and milestones, provided herein. Mr. Scotty Fielher and Mr. Ken Kebbell will serve as the CORs for this project.

1.1 PROJECT OVERVIEW AND BACKGROUND

ZAPATA has prepared this PMP for FWDA, McKinley County, NM under Contract No. W9128F-13-D-0025 Delivery Order DS01. This PMP has been prepared for activities to be implemented as part of remedial actions for three major elements of work under this Delivery Order:

- **Parcel 21 – Solid Waste Management Unit 1 – TNT Leaching Beds:** Remove contaminated soil exceeding residential cleanup standards/Soil Screening Levels (SSLs)/cumulative risk up to 10 feet (ft) below ground surface (bgs).
- **Parcel 24 – Igloo Block A:** Remove all igloo drains and contaminated soil from beneath select igloo drains with metals exceeding **residential** cleanup standards/SSLs.
- **Abandon Wells:** Abandon up to six groundwater monitoring wells.

FWDA is an inactive United States Army depot that currently occupies approximately 15,277 acres. The FWDA was used to store, ship, and dispose of obsolete or deteriorated explosives and ammunition. The depot is located approximately 7 miles east of Gallup, New Mexico in McKinley County just off of US Route 66 and Interstate 40. FWDA has been undergoing final environmental restoration prior to property transfer/reuse. As part of the planned property transfer to the Department of the Interior (DOI), the installation has been divided into several parcels. This includes Parcel 21, which encompasses Solid Waste Management Unit (SWMU) 1. SWMU 1 contains the features that are the subject of the IM in Parcel 21; pre- and post-1962 2,4,6-Trinitrotoluene (TNT) leaching beds. At this location, explosives-contaminated soil is planned to be removed from the leaching beds. ZAPATA will also perform smaller removal actions at Parcel 24 - Igloo Block A where we will remove drain pipes coated with lead-based paint and soil beneath the drains at 84 locations (approximately ¼ cubic yard of soil at each location). Additional tasks include the abandonment of up to six groundwater monitoring wells.

The planned scope of activities is detailed in the Interim Measures Workplan, Parcel 21 – SWMU 1 (ZAPATA 2014a) and the Notification of Permittee-Initiated Interim Measures, Parcel 24 – Igloo Block A (ZAPATA 2014b).

1.2 PERFORMANCE OBJECTIVES

See Performance Objectives in Section 4.0

1.3 PERFORMANCE PAYMENT MILESTONES

See Performance Payment Milestones in Section 6.1

1.4 REGULATORY PROCESS

All regulatory coordination will be approved by the USACE. The Contractor will provide the necessary support to initiate, schedule, and address all regulatory aspects of the project (e.g., organizing discussions with regulators concerning site recommendations, obtaining regulator comments on site documents and appropriately addressing them, and obtaining written documentation, as necessary, of regulator input for all of the sites identified in the PWS), including conducting installation specific kickoff meetings and meetings associated with the project. The USACE Project Manager (PM), or other COR designee, will attend and represent the USACE at all meetings with the regulators. With approval of the USACE PM or FWDA Program Manager the contractor may also informally discuss issues with regulators and provide an after-action report back to the USACE PM or FWDA Program Manager. The Contractor may not contact regulators without prior approval of the USACE PM, or FWDA Program Manager. The Army will be the signature authority for all agreements and remediation documentation.

1.5 HEALTH AND SAFETY REQUIREMENTS

Safety is paramount during execution of all ZAPATA's projects. We place the highest priority on the safety of our employees and subcontractors, both in the field and in the office. Field personnel will be briefed daily on all aspects of safety. The Senior UXO Supervisor (SUXOS) and Site Safety and Health Officer (SSHO) will monitor the safety of all site activities, conduct safety audits, and implement the Site Safety and Health Plan in the field. It is ZAPATA's policy that all personnel have the authority to stop work at any time if an unsafe operation and/or procedure is noted. ZAPATA will conduct site-specific employee training prior to the start of operations and supplement this initial training, as necessary, throughout the project. At a minimum, personnel will have:

- For the initial site activities at SWMU 1, which includes mixing of soils with greater than 10% explosives compounds by weight, the following personnel and training will be required:
    a. The operation will be staffed with a Senior Unexploded Ordnance Supervisor (SUXOS), an Unexploded Ordnance (UXO) Technician II, and a UXO Technician III.

b. The UXO personnel will meet the standards of Department of Defense Explosive Safety Board (DDESB) TP-18 (DDESB, 2004) for their respective assigned positions.
c. All UXO personnel will have a current and valid UXO database number on file.

- OSHA: Current certification in accordance with 29 CFR 1910-120 (e);
- Safety: Review of the Site-Specific Safety and Health Plan;
- Equipment Operator Training: Tailored to operator experience level and project objectives;
- Daily Safety Training: Tailgate briefings outlining the day's activities and unique hazards and safety precautions.

1.6 COMPLIMENTARY SITE PLANS

- Quality Assurance Surveillance Plan (QASP)
- Accident Prevention Plan (APP)
- Site Specific Health and Safety Plan (SSHP)
- Activity Hazard Analysis/Analyses (AHA)
- Interim measures Work Plan (IMWP) for Parcel 21 - SWMU 1
- Permittee Initiated IM (PIIM) Letter Workplan for Parcel 24 within Igloo Block A
- Environmental Protection Plan (EPP)
- Spill Prevention, Control, and Countermeasure (SPCC)
- Storm Water Pollution Prevention Plan (SWPPP)
- Waste Management Plan/Hazardous Waste Contingency Plan (WMP/HWCP)

1.7 GENERAL QUALITY CONTROL

Our quality of work is managed from delivery order award through acceptance of the final deliverables, as described in our Corporate Quality Program, reviewed and accepted by the USACE. ZAPATA has a Corporate Quality Assurance (QA) Program that results in an aggressive project-level QC program. Our Nonconformance and Corrective Action Reporting (NCAR) program applies to every aspect of project work. The program contains a form that addresses the description of nonconformance, the probable cause, a recommended corrective action, and allows for the ZAPATA PM to review and either concur with, or recommend a different action. Once the corrective action is completed, the work is reinspected to ensure compliance. Our QA Program enforces a Deliverable/Document Review Process that requires all documents to be reviewed by knowledgeable personnel other than the document author. The document is ultimately reviewed by ZAPATA's Vice President of Program Compliance for completeness, accuracy, grammar, and compliance with contract/scope requirements.

Quality Control (QC) checks of every aspect of work are conducted routinely. Our procedures will be used for all phases of fieldwork and will be described in detail in the various Work Plans. Our QC processes provide for:

- Testing and calibrating equipment used to perform work,
- Monitoring/measuring the effectiveness of work performed,
- Inspecting the maintenance and accuracy of site records,

- Determining compliance with site safety, environmental, and operational plans,
- Ensuring the accuracy, timeliness, and completeness of data deliverables, and
- Procedures to verify positioning control and sub-surface metal detection.

1.7.1 Chemical Data Quality Control

The analytical data are reviewed for precision, accuracy/bias, sensitivity, representativeness, comparability, and/or completeness, as applicable. Data to be used for project decision making need to be deemed reliable and represent the type of data needed for the project decision making. This is done through review of QC samples including field blanks and field duplicates, as well as site-specific matrix spiked samples to assess field technique, shipment, and possible matrix interferences. QC samples such as laboratory duplicate review, spike recoveries, and/or laboratory blanks are also reviewed as a quality check for the laboratory procedures and analyses. Completeness and representativeness are evaluated through the project sampling plan to ensure all samples were collected as planned.

The above QC criteria are reviewed in accordance with criteria set forth in the project IMWP and Parcel 24 PIIM Work Plan. The following elements of review are performed in accordance with the Department of Defense (DoD) Quality Systems Manual (QSM) requirements: duplicates are reviewed to evaluate analytical/field precision; spike recoveries are reviewed to evaluate analytical accuracy/bias; blanks are reviewed to evaluate potential cross-contamination in the field, shipment, or laboratory; reporting limits are evaluated to ensure that project screening criteria are met and ensure required minimum concentrations were reported to review sensitivity; sampling scheme collection including location and analyses performed are reviewed to assess comparability/representativeness; and sample collection and analysis is reviewed to see that completeness goals were met.

1.8 PROJECT DELIVERABLES

- Project Management Plan (PMP) including Draft Quality Assurance Surveillance Plan (QASP)
- Safety Plans (APP, SSHP, and AHA)
- Interim Measures Work Plan (IMWP)
- Permittee-Initiated Interim Measures Work Plan
- Additional Planning documents (EPP, SPCC, SWPPP, WMP, and HWCP)
- Interim Measures Reports
- Well Plugging Plans of Operation
- Final Monitoring Well Abandonment Reports

2.0 PROJECT TEAM, ROLES, AND RESPONSIBLITIES

ZAPATA has assigned experienced and qualified staff to successfully execute this Delivery Order. The identified positions are deemed essential for successful project execution and were selected based on their direct and relevant expertise with remediation projects for the USACE. ZAPATA will also integrate with team members and vendors that have supported us on numerous projects over the last 10 years. A project Organizational Chart is provided in Figure 2-1.

ZAPATA's team will conduct the risk assessment and perform data validation. ZAPATA's Risk Assessor will be available for participation in project planning meetings and to discuss project activities and findings with key decision-makers at FWDA and USACE.

Bohunk Excavation will perform soil excavations and igloo drain pipe cutting/disposal followed by soil removal beneath select igloo drains. Bohunk has recent and extensive experience working at FWDA conducting similar field activates required to complete this Delivery Order. Through this experience, they have earned an outstanding reputation with FWDA.

We are further supported by:

- Gulf Coast Analytical Laboratories (GCAL; primary analytical laboratory),
- Waste Management (waste disposal facility),
- Depauli Engineering and Surveying (surveyor); and,
- Geomechanics Southwest Inc. (monitoring well abandonment)

2.1 PROJECT TEAM

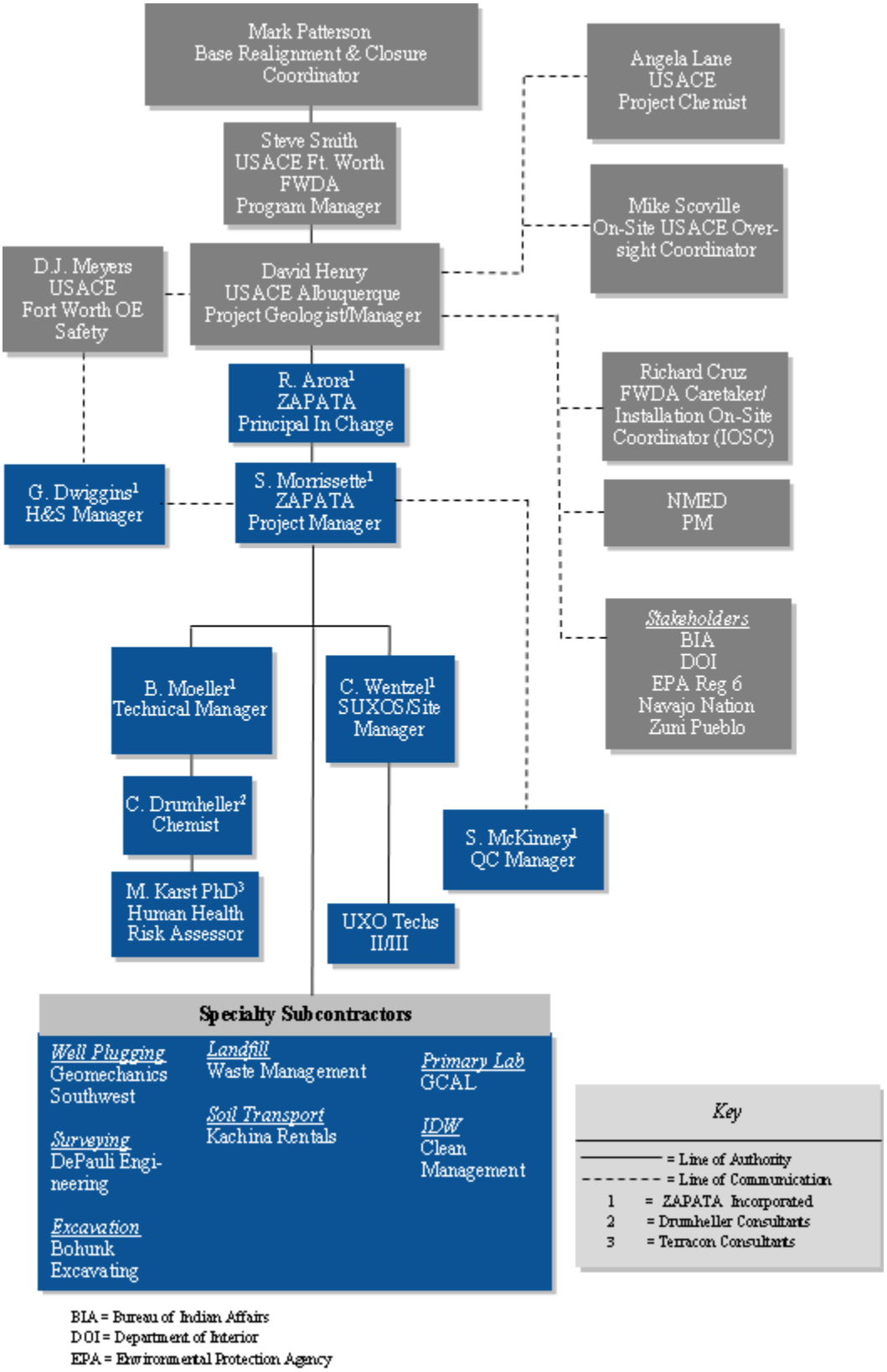
2.1.1 USACE, Tulsa District Contracting Officer

Mr. Allan Bassett is the Contracting Officer (KO) for this Delivery Order. The Contracting Officer (KO) is responsible for the day-to-day monitoring of the Contractor's performance in the areas of contract compliance, and contract administration; reviewing the COR's assessment of the Contractor's performance; and resolving all differences between the COR's assessment and the Contractor's assessment of performance. It is the KO that assures the Contractor receives impartial, fair, and equitable treatment under the contract. The KO is ultimately responsible for the final determination of the adequacy of the Contractor's performance. The KO is the only one authorized to obligate the Government on this contract.

2.1.2 USACE, Tulsa District Contracting Officer's Representatives

Mr. Scotty Fielher and Mr. Ken Kebbel will serve as the Contracting Officer's Representatives (CORs) for execution of this contract. They will be responsible for technical administration of the project and assuring proper Army surveillance of the Contractor's performance. The COR is responsible for monitoring, assessing, recording, and reporting on the technical performance of the Contractor on a day-to-day basis.

FIGURE 2-1 PROJECT ORGANIZATION CHART



2.1.3 USACE, Albuquerque District FWDA Project Manager (PM)/Project Geologist

Mr. David Henry is the USACE Project Geologist and PM responsible for execution of this contract. He will be kept apprised on all aspects related to the execution of this contract and is directly responsible for the delivery of complete, timely, and responsive contract product and services. Mr. Henry is ultimately responsible for this Delivery Order. This includes ensuring that deliverables are submitted in accordance with contract requirements, including fieldwork. Mr. Henry is also responsible for contract payments, and is responsible for upper reporting to the CORs (Scotty Fielher and Mr. Ken Kebbel), USACE Program Manager (Steve Smith) and FWDA BRAC Environmental Coordinator (Mark Patterson).

2.1.4 USACE, Fort Worth District FWDA Program Manager

Mr. Steve Smith is the Program Manager for the BRAC program at FWDA for the USACE. He is responsible for upper reporting to Mark Patterson and is responsible for all USACE activities, including USACE contracts, and USACE personnel.

2.1.5 FWDA BRAC Environmental Coordinator

Mr. Mark Patterson is the Base Realignment & Closure Environmental Coordinator (BEC). He is responsible for all environmental restoration activities at FWDA. He is the main point of contact to regulators, tribes, and the public regarding BRAC activities at FWDA.

2.1.6 ZAPATA Project Manager (PM)

Mr. Steve Morrissette is the ZAPATA PM and will be responsible for developing project schedules and budgets and ensuring that all deliverables satisfy project requirements and are conducted in accordance with applicable guidance. Adherence to our standard procedures (SOPs) will ensure quality deliverables. In addition, the PM will coordinate appropriate activities to ensure mitigation measures are implemented to minimize project risk.

2.1.7 On-Site USACE Oversight Coordinator

Mr. Mike Scoville is the primary field representative for USACE and assists with determination of environmental threats, proper disposal and management of wastes, recordkeeping, technical guidance, and reporting to outside agencies as required by regulations. Other responsibilities include ensuring all fieldwork is executed in accordance with the contract and approved work plans and performing all required quality control measures. Mr. Scoville is responsible for upper reporting to the USACE Project Manager on fieldwork activities.

2.1.8 FWDA Caretaker/Installation On-Scene Coordinator

Mr. Richard Cruz is responsible for daily activities at FWDA and is also the Installation On-Scene Coordinator (IOSC). Mr. Cruz is not responsible for contractors, but contractors shall report any emergencies that affect the daily operations of the FWDA facility. This includes major accidents that may require transportation to medical facilities, fires, or other major incidents that require coordination at the Post level. ZAPATA will ensure that Mr. Cruz is

informed, either through Mr. Scoville, or directly if needed, regarding security of gates, traffic patterns, temporary offices, and any other activities that he is responsible for. As the IOSC, Mr. Cruz will function as the facility emergency coordinator. IOSC responsibilities include assessing the emergency, determining the need for agency notification, requesting additional manpower and resources if required, and coordinating mitigation, cleanup, and reporting.

2.1.9 Ordnance and Explosives Safety Supervisor

Mr. D.J. Meyers, or his designee, is the Ordnance and Explosives Safety Supervisor (OESS) and will be responsible for ensuring that work is performed at the TNT leaching beds in accordance with DoD directives and/or regulations related to potential explosive hazards. In the case of the soils at the Leaching Beds that have explosives compounds greater than 10%, the OESS shall oversee the contract to ensure that the FWDA Explosives Site Plan (ESS) is adhered too. The contractor shall report any findings of MEC to the USACE OESS immediately upon discovery.

2.1.10 Stakeholders

- Base Realignment and Closure (BRAC) Office
- United States Environmental Protection Agency (EPA)
- New Mexico Environmental Department – Hazardous Waste Bureau (NMED-HWB)
- U.S. Department of Interior (DOI)
- Navajo Nation
- Zuni Pueblo

2.2 ROLES AND RESPONSIBILITIES

United State Army Corps of Engineers, Albuquerque District responsibilities include coordination for site access, review of project work plans and documents, communication with news media and public, and coordination with state and local regulatory agencies.

United State Army Corps of Engineers Fort Worth District will provide FWDA programmatic support, IOSC support, and OESS support.

ZAPATA will perform project management activities necessary to maintain project control, including the maintenance of a Project Schedule in Microsoft Project. The schedule will be adjusted and refined during the duration of the project and updated accordingly. Monthly progress reports will be submitted to the USACE PM. Project documentation will consist of, but not be limited to, all project correspondence both formal and email, contracts, modifications, and deliverables of all types. Upon completing all task elements, ZAPATA will prepare and submit a letter signed by an officer of the company certifying, on behalf of ZAPATA, that the requirements of the awarded delivery order have been met.

2.3 COMMUNICATION METHODS AND LINES OF COMMUNICATION

Mr. Steve Morrissette, PG, CPG is the primary point of contact for ZAPATA. ZAPATA will primarily communicate with the USACE PM or Program Manager, or FWDA personnel, as part of the USACE Team for this project using various media. This media will include email,

telephone and hard-copy letters. Unless otherwise directed by the USACE, ZAPATA personnel will not communicate directly with persons outside the USACE project team; including NMED and USEPA personnel. Direct and conference telephone calls and meetings that include substantive information will be documented. All communication documents are stored electronically on ZAPATA servers and will be provided to the CESWF and CESPA at the conclusion of the project, or earlier if requested.

2.4 REQUIRED MEETINGS

In addition to the project kickoff meeting held on 10 September 2014, there will be up three additional meetings at FWDA in the Gallup, NM area. The first scheduled meeting was the September 10, 2014 project kickoff meeting with USACE, BRAC, and ZAPATA personnel present. Later project meetings will be scheduled and conducted as the project activities progress.

2.5 STATUS REPORTS

Status Reports will be delivered to Mr. David Henry monthly by the 5th of each month and daily when field activities are active.

2.6 COMMUNITY INVOLVEMENT

Community involvement is not part of this project.

2.7 PROJECT REPOSITORY

FDWA will keep copies of all final plans and documents as part of the project repository at the FWDA Administration Building (Bldg. 1).

3.0 PROJECT CONTACTS AND DELIVERABLES

3.1 PROJECT CONTACT INFORMATION

The contact Information for project team members is provided, in Table 3-1.

TABLE 3-1 PRIMARY PROJECT TEAM MEMBERS

Name	Project Role	Phone	Email Address
Bill O'Donnell	Department of Army DAIM-ODB Program Manger	(703) 545-2494	william.odonnell50.civ@mail.mil
Mark Patterson	Base Realignment & Closure Environmental Coordinator (BEC)	(330) 358-7312	mark.c.patterson@us.army.mil
Steve Smith	USACE, Fort Worth District FWDA Program Manager	(817) 886-1879	steve.w.smith@usace.army.mil
John Kieling	NMED Resource Conservation and Recovery Act (RCRA)	(505) 476-6016	
Dave Cobain	NMED Hazardous Waste Bureau	(505) 476-6055	
Angela Kelsey	Bureau of Indian Affairs		
Clayton Seoutewa	Bureau of Indian Affairs Zuni		
Darrell Tsabetsaye	Pueblo of Zuni		
Larry Rodgers	Navajo Nation		
Rose Duwyenie	Bureau of Indian Affairs Navajo		
David Henry, PG	USACE, Albuquerque District PM and Project Geologist	(505) 342-3139	david.w.henry@usace.army.mil
Allen Bassett	USACE, Tulsa District Contracting Officer	(918) 669-7136	allen.r.bassett@usace.army.mil
Brian Hutchinson	USACE, Tulsa District Contracting Specialist	(918) 669-7426	brian.c.hutchison@usace.army.mil
Mike Scoville	USACE, Fort Worth District On-Site USACE Oversight Coordinator	(817) 866-1875	michael.g.scoville@usace.army.mil
Richard Cruz	FWDA Caretaker and Installation On-Scene Coordinator (IOSC)	(505) 905-6190	richard.cruz2@us.army.mil
Martin Eastridge	Missile Defense Agency Caretaker	(575) 649-0352	
-	FWDA Administrative Records Manager	(505) 905-6108	
Chuck Hendrickson	U.S. EPA Region 6	(214) 665-2196	
Eldine Stevens	Department of Interior Bureau of Land Management (DOI/BLM)		
Judith Wilson	DOI/BLM		
Steven Morrissette	ZAPATA Project Manager	(402) 871-2891	smorrissette@zapatainc.com
Shane Smith, PE	ZAPATA Project Engineer	(704) 378-4934	ssmith@zapatainc.com
Chuck Wentzel	ZAPATA Senior UXO Supervisor / Site Manager	(704) 905-9786	cwentzel@zapatainc.com
Nathan Reel	ZAPATA, Site Safety and Health Officer	(704) 617-3218	nreel@zapatainc.com
Bryan Moeller, PG	ZAPATA, Technical Manager	(704) 907-5116	bmoeller@zapatainc.com
George Dwiggins	ZAPATA Corporate Safety and Health Officer	(704) 378-4913	gdwiggins@zapatainc.com
Kevin Shafer	Bohunk Excavating, Spill Response	(928) 220-0077	kshafer@bohunkexcavating.com

3.2 DOCUMENT DISTRIBUTION

All documents will be produced with at least draft and final versions. Documents required for stakeholder and regulatory review will be produced in draft, draft-final, and final versions in both hard copy and electronic (PDF) format. ZAPATA will provide a sufficient number of copies of each submittal as requested by the various project stakeholders. The COR will provide consolidated Army comments on draft documents to the Contractor within thirty (30) business days. Once comments on the draft are addressed, ZAPATA will provide draft-final submittals to the USACE for stakeholder review. The Installation Program Manager will place one copy of final Army approved documents in both the project repository and Administrative Record.

TABLE 3-2 MAJOR DELIVERABLE DISTRIBUTION

Title	Versions	Recipients	Hardcopy (copies)	Electronic (copies)
Project Management Plan (PMP)	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	0
		Neal Navarro Regional Support Center (USACE SPK)	0	0
		Admin Record - OH	0	1
		Bill O'Donnell (BRACD)	0	1
	Final	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
		Admin Record - OH	0	1
		Bill O'Donnell (BRACD)	0	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
Quality Assurance Surveillance Plan (QASP)	Draft	Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
Accident Protection Plan / Site Safety and Health Plan / Activity Hazard Analysis (APP, SSHP, AHA)	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	0
		Neal Navarro Regional Support Center (USACE SPK)	0	0
		Admin Record - OH	0	1
		Bill O'Donnell (BRACD)	0	1
	Final	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record - OH	0	1
	Final Version 2	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
		Bill O'Donnell (BRACD)	0	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1

Title	Versions	Recipients	Hardcopy (copies)	Electronic (copies)
		Mark Patterson (FWDA BEC)	1	1
		Admin Record - OH	0	1
Additional Planning Documents (Environmental Protection Plan; Spill Prevention, Control, and Countermeasure Plan; Waste Management Plan; Hazardous Material Contingency Plan; and Storm Water Pollution Prevention Plan (EPP, SPCC, WMP, HWCP, SWPPP)	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	0
		Neal Navarro Regional Support Center (USACE SPK)	0	0
		Admin Record - OH	0	1
		Bill O'Donnell (BRACD)	0	1
	Final	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record - OH	0	1
	Final Revision 2	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record - OH	0	1
SMWU 1 Interim Measures Work Plan (IMWP)	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	0
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record - OH	0	1
	Final (Regulatory Review) and Tribal Draft (Concurrent)	Mark Patterson (FWDA BEC)	0	1
		FWDA Admin Record	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		Steven Smith - Ft. Worth District POC (USACE SWF)	0	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record, OH	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Rose Duwyenie (BIA-NR)	1	2
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	1	1
		Angela Kelsey (BIA)	0	1
	Final Version 2	David Henry Albuquerque District (USACE SPA)	1	1
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Bill O'Donnell (BRACD)	0	1

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		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	0	1
		Rose Duwyenie (BIA-NR)	1	2
		Angela Kelsey (BIA)	0	1
		Pat Ryan (Web Manager)	0	1
SMWU 1 including TNT Beds Removal Action Report	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record - OH	0	1
	Final (Regulatory Review) and Tribal Draft (Concurrent)	Mark Patterson (FWDA BEC)	0	1
		FWDA Admin Record	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		Steven Smith - Ft. Worth District POC (USACE SWF)	0	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record, OH	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Rose Duwyenie (BIA-NR)	1	2
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	1	1
		Angela Kelsey (BIA)	0	1
	Final Version 2	David Henry Albuquerque District (USACE SPA)	1	1
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Bill O'Donnell (BRACD)	0	1
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	0	1
		Rose Duwyenie (BIA-NR)	1	2
		Angela Kelsey (BIA)	0	1
		Pat Ryan (Web Manager)	0	1
Letter Notification for Permittee Initiated Interim Measures Parcel 24 – Igloo Block A	Preliminary Draft	Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	1	2
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		Bill O'Donnell (BRACD)	0	1

Title	Versions	Recipients	Hardcopy (copies)	Electronic (copies)
		David Henry Albuquerque District (USACE SPA)	1	1
		D.J. Meyers (USACE SWF)	0	0
		Neal Navarro Regional Support Center (USACE SPK)	0	0
		Admin Record - OH	0	1
	Final (Regulatory Review) and Tribal Draft (Concurrent)	Mark Patterson (FWDA BEC)	0	1
		FWDA Admin Record	1	2
		Bill O'Donnell (BRACD)	0	1
		David Henry Albuquerque District (USACE SPA)	1	1
		Steven Smith - Ft. Worth District POC (USACE SWF)	0	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Admin Record, OH	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Rose Duwyenie (BIA-NR)	1	2
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	1	1
		Angela Kelsey (BIA)	0	1
	Final Version 2	David Henry Albuquerque District (USACE SPA)	1	1
		John Kieling (NMED HWB)	2	2
		Chuck Hendrickson (USEPA 6)	1	1
		Mark Patterson (FWDA BEC)	1	1
		FWDA Admin Record	2	2
		Bill O'Donnell (BRACD)	0	1
		Steven Smith - Ft. Worth District POC (USACE SWF)	1	2
		D.J. Meyers (USACE SWF)	0	1
		Neal Navarro Regional Support Center (USACE SPK)	0	1
		Larry Rodgers (NN)	1	7
		Darrell Tsabetsaye (POZ)	1	8
		Clayton Seoutewa (BIA Zuni)	1	1
		Eldine Stevens (DOI/BIA)	0	1
		Judith Wilson (DOI/BIA)	0	1
		Rose Duwyenie (BIA-NR)	1	2
		Angela Kelsey (BIA)	0	1
		Pat Ryan (Web Manager)	0	1

Note: Highlighted recipients are for Munitions and Explosives of Concern Investigations Only

4.0 PERFORMANCE OBJECTIVES

The objective for the Interim Measures for Parcels 21 & 24 is to excavate soils to eliminate the residential exposure pathway. Additionally, up to six groundwater monitoring wells will be plugged and abandoned in accordance with New Mexico Administrative Codes (NMAC).

ZAPATA will accomplish the performance objectives of this TO, which includes approval of planning documents, completion of removal of contaminated soils and well abandonment, obtain regulator approved completion reports requiring no further action for SWMU No. 1 (soils only) and Parcel 24 (soils only).

TABLE 4-1 PERFORMANCE OBJECTIVES AND ACHIEVEMENT CRITERIA

Performance Objective		
No.	**Summary**	**Achievement Criteria**
1	Project Kick-Off Meeting at FWDA • Conduct and attend meeting within 30 of award • Provided meeting minutes within seven business days	Government Acceptance
2	Approved Project Management Plan (PMP) and QASP • Draft PMP/QASP within 30 calendar days of Project Kick-Off Meeting • Final PMP within 30 calendar days of receipt of army comments on drafts	Government Acceptance
3	Approved Safety Plan including APP, SSHP, and AHA • Draft Safety Plan within 30 calendar days of award • Final Safety Plan within 30 calendar days of receipt of army comments on drafts • Safety Plan must be approved before commencement of any fieldwork	Government Acceptance
4	Approved SWMU 1 Interim Measures Work Plan (IMWP) • Draft IMWP within 90 calendar days from date of award • Army review within 30 calendar days after receipt of Draft IWMP • Submit IWMP to NMED and stakeholders 30 days after receipt of Army comments • Final within 30 calendar day after receipt of army comments on drafts to IWMP, NMED, stakeholders and Army	NMED Regulatory Approval
5	Approved of Additional Planning Documents (includes EPP, SPCC, WMP, and HWCP) • Draft Planning Documents within 30 calendar days of award • Final Planning Documents within 30 calendar days of receipt of army comments on drafts	Government Acceptance
6	Execute IMWP • Excavate soil to meet the residential exposure to soil in accordance with NMED guidance • Request to execute Option 2 through 6, if required to illuminate the residential exposure in accordance with NMED guidance • Backfill excavated areas • Reseed excavated areas • Task completed within 90 calendar days of approved IMWP	Government Acceptance and Regulatory Acceptance
7	Acceptance of SWMU 1 Report, Including TNT Leaching Beds • Army Draft IM report submitted within 60 days of Task 6 completion • Final IM report submitted to NMED and stakeholders within 45 days of receipt of Army team comments • Stakeholder, other than NMED, review 90 days from date of final report	NMED Regulatory Approval

Performance Objective		
No.	**Summary**	**Achievement Criteria**
	submittal • NMED Approval of SWMU 1 Report within 365 days of Task 6 completion	
8	Acceptance of Parcel 24 – Permittee-Initiated Interim Measures • Army Draft Permittee-Initiated IM Letter Notification within 90 calendar days from date of award • Submit Stakeholder for review (60-day review for stakeholder other than NMED) • NMED Approval of IM notification • Execution of IA • Submit Stakeholder Report for review (90 day review) • NMED Approval of Report (445 calendar days from the date of contract award)	NMED Regulatory Approval
9	Well Plugging and Abandonment • Abandon Wingate 89, Wingate 90, Wingate 92, and FW26 • Final abandonment reports to all stakeholders and Army within 180 days from the data of contract award	NMOSE Approval of Well Plugging Reports
10	Meetings • Attend up to three meetings during the execution of the project • Produce meeting minutes and presentation material	Government review and written acceptance
11	OPTION 2: Additional Yardage (2,000 CY) • 100 % excavation, backfill, compaction, and vegetative cover • Complete Notice of Completion of Task	Government inspection and written acceptance of completed work
12	OPTION 3: Additional Yardage (5,000 CY) • 100 % excavation, backfill, compaction, and vegetative cover • Complete Notice of Completion of Task	Government inspection and written acceptance of completed work
13	OPTION 4: Additional Yardage (7,500 CY) • 100 % excavation, backfill, compaction, and vegetative cover • Complete Notice of Completion of Task	Government inspection and written acceptance of completed work
14	OPTION 5: Additional Yardage (10,000 CY) • 100 % excavation, backfill, compaction, and vegetative cover • Complete Notice of Completion of Task	Government inspection and written acceptance of completed work
15	OPTION 6: Additional Yardage (15,000 CY) • 100 % excavation, backfill, compaction, and vegetative cover • Complete Notice of Completion of Task	Government inspection and written acceptance of completed work
16	OPTION 7 – Well Plugging and Abandonment • Abandon TMW 32 • Final abandonment reports to all stakeholders and Army within 180 days from the data of contract award	NMOSE Approval of Well Plugging Reports
17	OPTION 8 – Well Plugging and Abandonment • Abandon TMW 41 • Final abandonment reports to all stakeholders and Army within 180 days from the data of contract award	NMOSE Approval of Well Plugging Reports

5.0 SCOPE OF WORK AND DETAILD TECHNICAL APPROACH

This section of the PMP will present a detailed technical approach for Interim Measures for Parcels 21-SWMU No.1 and 24-Igloo Black A and Abandonment of Wells. The tasks associated with the scope of work are detailed in the PWS Attachment A, to include a discussion of resources required for task completion.

5.1 DETAILED TECHNICAL APPROACH

This section describes the technical approach to be implemented as part of remedial actions for three major elements of work under this TO:

- **Parcel 21 – Solid Waste Management Unit 1 – TNT Leaching Beds:** Remove contaminated soil exceeding residential cleanup standards/SSLs/cumulative risk up to 10 feet (ft) below ground surface (bgs).
- **Parcel 24 – Igloo Block A:** Remove all igloo drain pipes, plug resulting openings in igloo headwalls, and remove contaminated soil from beneath select igloo drains with metals exceeding residential cleanup standards/SSLs.
- **Abandon Wells:** Abandon up to six groundwater monitoring wells.

5.1.1.1 Parcel 21 – SWMU 1

5.1.1.1.1 Introduction

SWMU 1 is the TNT Leaching Beds and Building 503 (TNT Washout Building), located in the northern portion of the installation. TNT demilitarization operations were conducted at SWMU 1 between 1949 through 1967. Building 503 was built in 1948 on a concrete dock that was the former location of two bundle ammunition packing buildings. The building was approximately 387 feet long by 32 feet wide, with a two-story addition on the east end that was approximately 23 feet long by 32 feet wide. The building and related structures were demolished in 1998.

5.1.1.1.2 Mobilization and Field Preparation

Personnel, equipment and materials required to execute fieldwork will be mobilized following IMWP approval and the Pre-Mobilization meeting held at FWDA. Field personnel to be mobilized include the SUXOS/Site Manager, (UXO) Technicians, SSHO/QC, and key subcontractors. We will utilize one (1) Caterpillar 325 Hydraulic Excavator, Caterpillar 966C Wheel Loader, Caterpillar 615 Elevating Motor Scraper, Caterpillar 140m Motor Grader, water trucks (4000 gallons for storage) and up four dump trucks will be used for excavating and backfilling operations. Heavy equipment will be delivered to the site and staged in the work area for pre-work inspections.

The primary staging area is proposed at Parcel 21 south of the south (triangle shaped) TNT leaching bed and will be utilized for operations at both Parcel 21 and 24. A temporary fueling station will be established here, which will consist of a double-walled 3,000 gallon diesel fuel tank staged in a secure berm. A small laydown area to stage tools and equipment will also be

utilized for interim measures at Parcel 24. This will be established along the entrance and haul route of Igloo Block A; at the intersection of West Fringe Road and A-1. During field activities at Parcel 24, the project office, storage trailer, portable toilets and petroleum containers will remain at the main storage and laydown area proposed at Parcel 21 – SWMU 1.

Petroleum storage also includes auxiliary fuel tanks (100 gallons or less) on site vehicles. Quantities of motor oil and hydraulic oil kept in approved containers (5-gallons or less) may also be transported and stored in the support or crew trucks. Small quantities of petroleum products (5-gallons or less), which may include oil, grease, and hydraulic fluid for equipment maintenance, will be stored in enclosed storage areas at the laydown area on site. Containers will not be stored where a leak or spill could enter a stormwater conveyance or arroyo. Installation environmental personnel will be consulted to assure SPCC procedures/ permits are met. See the project specific SPCC Plan for more details on petroleum storage (ZAPATA 2014c).

In addition, ZAPATA will construct a stabilized construction entrance and exit area to begin operations. A decontamination area will be constructed before the exit point from the leaching beds on the side of the excavation. All required safety and labor postings will be located at the office trailer.

5.1.1.1.3 Surveying

DePauli Engineering, a NM certified PLS, will be used to identify the excavation boundary and all the surface topographical features of the area to develop a baseline survey. The survey will be tied into an existing on-site benchmark.

5.1.1.1.4 Pre-Excavation Waste Profile Sampling

Once utility clearance is complete, representative samples from the berms, and areas of excavation, will be collected and analyzed for delineation and to meet waste profile requirements. Waste profile samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) TAL metals and mercury using Environmental Protection Agency (EPA) Method 1311/6020A & 7471B, TCLP SVOCs using EPA Method 1311/8270D and explosives using EPA Method 8330, perchlorate by EPA Method 6850, and nitrate/nitrite by EPA Method 300.0. Once profiles are accepted by the landfill; documentation will be prepared certifying the disposal facility is in compliance with all regulations/permits and an acceptance letter requested from the facility that they will accept the waste. No material will be removed from the site until USACE approves the submitted information.

In addition to the initial profiling, waste profile samples will also be collected as one composite sample for every 1,000 CY of soil using the same parameters as specified above.

5.1.1.1.5 Excavation Sequencing and Equipment Overview

Soil containing concentrations of constituents above the applicable NMED SSL/EPA Regional Screening Levels (RSL) (residential screening levels) or exceeding residential risks through

sample-specific cumulative risk calculations will be excavated up to 10 feet below ground surface (bgs) for off-site disposal from the former TNT Leaching Beds of Parcel 21. The following work sequence description has been developed to provide the project with a safe and compliant production rate that will meet or exceed the milestone dates critical to the USACE goals.

Before completing the main excavation, the soil berms from the larger northern diamond-shaped leach bed will be removed. The estimated five cy of TNT-containing soils above a concentration of 10% will then be mixed (homogenized) mechanically with the berm soil and surrounding leach bed soils from the top one foot of the leach beds in a designated corner of the northern leach bed. A UXO Technician II and III will be present on site during this operation to provide UXO construction support. After thorough mixing, ZAPATA will collect analysis using Incremental Sampling (IS) techniques for explosives using EPA Method 8330B. Samples will be collected by randomly obtaining at least 30 aliquots of soil throughout the stock-pile, and combining the aliquots for the sample(s) that will be sent to the laboratory. If the results of the analyses are equal to or above 10 % explosives content, additional mixing with berm soil and/or top 1 ft. of soil from the Post-1962 Leaching Beds will be completed for that stockpile followed by additional IS sampling until explosives concentrations are below 10 %. Once the explosive concentrations are below 10 percent, the soils will be characterized for waste disposal as described and hauled off-site to the project landfill. Excavation will then commence on the remainder of the leach bed material as follows:

- Excavation of the smaller triangle leach bed to a depth of 5 ft. The areas requiring further excavation to 10 ft will be delineated and staked for future excavation.
- Excavating will begin on the northern leach beds in 100 ft by 100 ft grids to a depth of 5 ft. Areas slated for excavation to 10 ft will again be delineated and staked. This approach will allow to maintain an accurate and timely estimate of soil cy removed from the ground, and to provide the USACE with timely notices of the need to exercise the soil excavation options. When it is estimated that 80% of the base contract volume has been removed the excavations will be surveyed. The USACE Oversight Coordinator will be notified, who will in turn notify the USACE Project Manager, if additional excavation options are foreseen as necessary.
- Discrete confirmation samples will be collected from the floors of the 5 ft excavation areas, except for the areas marked for excavation to 10 ft, every 50 ft as per past protocol at FWDA (i.e., Parcel 18 landfill). Samples will be collected with the backhoe bucket as discrete samples every 50 ft over the footprint of the excavation and will be analyzed on a 5-day turnaround for explosives, perchlorate, Target Analyte List (TAL) metals (plus mercury), semi-volatile organic compounds (SVOCs), and nitrite/nitrate.
- The areas within the leach beds slated for excavation to 10 ft will then be excavated to the total 10 ft depth.
- Once analytical data have been received for the initial confirmation samples from areas excavated to 5 ft, an evaluation of potential residential risks based on screening level comparisons and sample-specific cumulative risk calculations will be made by the risk assessor.

- If any areas exhibit screening level exceedances or cumulative risks above residential thresholds, then another 2.5 ft will be excavated from the subject area(s) (about a 50 ft by 50 ft area) and resampled as described above. This process will continue until all excavation floor samples exhibit residential risk below applicable standards or the maximum residential depth scenario of 10 ft has been reached (the areas excavated to 10 ft will not be floor confirmation sampled since maximum residential exposure depth will have been reached).
- After all vertical excavation is complete; the excavation sidewalls will be sampled according to past protocol (i.e., composite samples collected along sidewall segments no greater than 100 ft. in length).
- Using the same cumulative evaluation process as the floor samples, residential exceedances in the sidewalls will trigger additional excavation in those segments for a lateral distance of 5ft. This will be followed by additional confirmation sampling in that sidewall segment until levels below cumulative residential cleanup SSLs are reached.
- Waste profile samples for material to be transported to the project landfill will be collected as a composite sample for every 1,000 CY of soil removed.
- A final survey will be conducted to compare the baseline survey. This will be used to evaluate removal volumes and backfill volume requirements.

5.1.1.1.6 Survey of Excavation Extent

Following completion of 80% of the excavation volume based on truck counts, the excavation area surveyed and again once the confirmation sampling verifies the excavation has been completed. The final survey will be compared to the baseline survey to evaluate removal volumes and backfill.

5.1.1.1.7 Confirmation Sampling

The confirmation soil sample analyses include EPA Methods for explosives (8330B), perchlorate (6850), TAL metals + mercury (6020A and 7471), SVOCs (8270D), and nitrate/nitrite (300.0). Discrete excavation floor samples will be collected using a backhoe bucket every 50ft over the footprint of the excavation and will be analyzed on a 5 day turnaround. Sidewall samples will be collected from at least every 100ft of the sidewalls. Total excavation sidewall length will be rounded up to the nearest 100ft to determine the quantity of samples to be collected. Sample locations will be spaced equally along sidewalls. Each sidewall segment sample will consist of one composite sample comprised of nine subsamples randomly collected from within each sidewall segment. Soil collected using the excavator bucket with aliquots collected directly from the bucket. Sample numbering will follow the protocol that will be described in the IMWP. Analytical data will be compared to the remediation goals to ensure that all contaminated material has been properly excavated.

5.1.1.1.8 Backfilling Operations

Once written USACE and NMED approval to backfill has been received, the trucks and excavators will be decontaminated. Backfill material will be excavated at the FWDA on-site borrow source and loaded into end-dump haul trucks for transportation to Parcel 21. Water will

be added during backfill excavation/loading operations to reduce dust generation and to achieve optimum moisture content. Following completion of borrow excavation, the borrow area will be graded to promote proper drainage, minimize erosion, and prevent ponding of surface water.

Backfill will be compacted by placing 12-inch loose lifts and wheel rolling the soils with the Loader (bucket full of soil). Once all waste has been removed and final backfilling and grading is complete, the project team will being site cleanup operations. The erosion control berm and perimeter fencing will be removed. Prior to demobilization and after grading has been approved, the entire disturbed area will be reseeded with native grass and plant mix from a local nursery. The seed will be watered if necessary up to two times a month apart.

Detailed excavation plans and figures are included in the Interim Measures Workplan (IMWP) (ZAPATA 2014a).

5.1.1.1.9 Transportation and Disposal of Waste Material

All waste will be transported in properly labeled vehicles permitted by New Mexico Department of Transportation (NMDOT) and disposed in accordance with all Federal, State and local regulations. Each manifest will be signed by an approved representative of the Army as the generator. Copies of waste manifests and landfill weigh tickets will be maintained for the USACE and will be included in the final report. Material will then be transported and disposed as solid waste at Waste Management's San Juan Regional Landfill in Aztec, NM, following waste profile acceptance. If hazardous waste is identified during the initial waste profile sampling, the proposed approach for remediation will be re-evaluated and the Work Plan will be modified accordingly. Following the competition of the interim measures, a brief letter report documenting the findings of the field effort will be submitted for approval.

Although all waste is expected to be characterized as non-hazardous, if any waste is determined to be RCRA characteristic, ZAPATA will notify the USACE Oversight Coordinator upon receipt of data; who will in turn notify the USACE Project Manager as necessary. A contract modification may be required for any additional work activities.

5.1.1.2 Parcel 24 – Igloo Block A

5.1.1.2.1 Introduction

Igloo Block A is one of several igloo blocks located on FWDA that was previously used as a munitions storage area. Parcel 24 includes most of Igloo Block A, located near the northwestern corner of the installation directly west of the Administration Area extending from north to south along the western boundary (ERM, 1994). It is bounded to the south and east by Parcel 6, which contains Igloo Block B. It is bounded to the north by Parcel 9, which contains the northern small portion of Igloo Block A; and Parcel 10A, which is a partition of Parcel 10 that is undeveloped buffer land, that contains a small triangular section of AOC 44 (Former Administration and Utilities Area) and the former WWI Storage Site 35F-259. Parcel 10A is currently pending transfer from the Army. Parcel 24 is bounded to the west by Parcel 8, which constitutes

undeveloped land. Under this TO, we are only completing interim measures at Parcel 24 that is within Igloo Block A.

In early 2014, USACE completed a Release Assessment Report (RAR) at Parcel 24 (USACE 2014). The RAR concluded that based on data collected from x-ray fluorescence (XRF) and analytical data from 2008 and 2010; lead, arsenic, and mercury exceeded New Mexico Environment Department (NMED) SSLs (or the site-specific background concentration protocol established for arsenic) in soils below certain igloo drain outfalls. The RAR recommended impacted soil removal from beneath 84 drain pipes from 46 igloos within Parcel 24 only.

Based on the RAR conclusions, ZAPATA will remove all igloo drain pipes in the Parcel 24 portion of Igloo Block A and approximately 1/4 cubic yard (cy) of soil from beneath both igloo drain pipes of the following igloos: A-903, A-905, A-909, A-912, A-913, A-914, A-915, A-916, A-917, A-918, A-920, A-922, A-923, A-925, A-926, A-929, A-933, A-935, A-936, A-939, A-941, A-942, A-943, A-944, A-946, A-948, A-950, A-951, A-952, A-955, A-962, A-964, A-969, A-970, A-971, A-976, and A-977. Soil will be removed from below only the left side igloo drain pipes of the following igloos: A-927, A-934, A-945, A-963, and A-965; and from below only the right side igloo drain pipes of igloos: A-907, A-924, A-938, A-947, and A-975. The remaining igloos did not have detected SSL exceedances; thus only the igloo drain pipes will be removed from those igloos.

5.1.1.2.2 Interim Measures

Drain pipes will be removed from each of the igloos (right and/or left drains) using a flush cutting power saw (i.e., band saw or reciprocating saw). Measures will be implemented to ensure lead paint particles will not endanger workers cutting the drain pipes. Cuttings from the drain pipes will be collected by a sheet of polyethylene plastic placed under the drain pipe during the cutting process to ensure lead particles are not spread onto surrounding uncontaminated soil. Once the igloo drain pipes have been removed, the pipes and plastic sheeting will be packaged and labeled as lead-containing materials. The cutoff pipes will then be transported to a local scrap metal recycler (All City Recycling and Towing) in Gallup, New Mexico for recycling of the metal pipes. After igloo drain pipe removal, all resulting exposed holes in the igloos will be filled with concrete mix to a depth of six inches into the igloo walls.

ZAPATA will utilize hand powered tools to complete soil excavation of approximately ¼ cy yard of soil from beneath the specific igloo drain pipe outfalls listed previously. After excavation, a discrete confirmation soil sample will be collected from the bottom of each excavation and will be analyzed for the metals that exceeded NMED SSLs for lead and/or mercury, or the background protocol for arsenic, to ensure remaining analyte concentrations are below the established cleanup standards. If concentrations of analytes of concern from initial confirmation samples are found to exceed cleanup standards, additional soil will be removed and follow-up confirmation sampling will be completed until the cleanup standards are met.

All soil that is excavated from beneath the igloo drains (expected to total approximately 21 cy) will be combined in a roll off container and sampled for RCRA hazardous waste characterization for metals using the TCLP EPA Method 1311/6020A/7471B to confirm that the material is RCRA non-hazardous waste. Material will then be transported and disposed as solid waste at Waste Management's San Juan Regional Landfill in Aztec, New Mexico, following waste profile acceptance. If hazardous waste is identified during the initial waste profile sampling, the proposed approach for remediation will be re-evaluated and the Work Plan will be modified accordingly. Following the completion of the interim measures, a brief letter report documenting the findings of the field effort will be submitted for approval.

5.1.1.3 Abandonment of Groundwater Monitoring Wells

ZAPATA will abandon four groundwater monitoring wells and possibly two additional groundwater monitoring wells under optional tasks during the course of field operations. The four wells currently tasked for abandonment include Wingate 89, 90, and 91 on Parcel 10B and FW26 on Parcel 11. At Parcel 21, the excavation work at the SWMU 1 TNT Leaching Beds may necessitate the abandonment of two additional monitoring wells (TMW32 and TMW41) if excavation boundaries encroach on the well(s). ZAPATA will prepare and submit a well plugging and abandonment plan to the USACE Project Manager that complies with pertinent New Mexico Administrative Code (NMAC) for abandoning monitoring wells. Once submitted and approved by the New Mexico Office of the State Engineer (NMOSE), ZAPATA and its NM licensed well driller will then abandon each well according to all pertinent NMAC specifications and requirements. All well locations will be surveyed by a NM licensed surveyor. Bollards, steel protective casings, and concrete well pads will be removed prior to abandonment and discarded at an off-site landfill. After abandonment, any well that had a steel protective casing will have a permanent concrete monument with the well identification and date of abandonment placed at the location of the well. A well abandonment report will be produced to document the abandonment of the wells. The report will be submitted to the USACE Project Manager and subsequently to the NMOSE for approval. The planned scope of activities for well abandonments is detailed in the IMWP, Parcel 21 – SWMU 1 (ZAPATA 2014a).

5.1.1.4 Waste and Waste Generating Processes

A removal action at Parcels 21 – SWMU 1 and 24 – Igloo Block A to remove contaminated soils will be completed. Wastes that may be generated from this process include potentially TNT explosive soil at SWMU 1; while soils impacted with low concentrations of metals potentially exist at Parcel 24 – Igloo Block A. However, for both sites, soils are expected to be characterized as RCRA non-hazardous. At SWMU 1, the potentially explosive soil from the top one foot of the leach beds will be homogenized with soil from the surrounding berms before main leaching bed excavation begins to produce soils that are below the 10% explosives concentration threshold. Confirmation samples will be collected for explosives using EPA Method 8330B to ensure TNT concentrations are below 10 % after surficial soils are mixed. If results indicate concentrations equal or exceed 10%, soil mixing will continue with berm soil

and/or top 1 foot leaching bed soil until additional confirmation samples indicate TNT concentrations are below 10 percent.

Other waste generating processes include the removal of the drain pipes from each of the igloos at Parcel 24 – Igloo Block A that are coated with lead based paint. Each igloo contains two drain pipes (154 drain pipes in total to be removed). Additional waste includes producing used petroleum (i.e. oil, hydraulic fluid, and/or diesel) from routine maintenance associated with equipment being used during the removal action.

6.0 PERFORMANCE/PAYMENT MILESTONES AND PROJECT SCHEDULE

6.1 PERFORMANCE/PAYMENT MILESTONES

The task order PWS provides several minimum milestones associated with performance objectives. This PMP provides interim milestones, along with acceptance criteria for USACE acceptance of milestone completion. Project performance/payment milestones are identified in **Table 6-1** below.

TABLE 6-1 PERFORMANCE/PAYMENT MILESTONES (DRAFT)

CLIN (Task) No.	Element	Milestone	Date	% of Total CLIN Budget	Amount
001	Kickoff Meeting	• Approval of Kick-Off Meeting Minutes	Oct 2014	100%	**$8,568.00**
002	PMP	• 002AA - Approval of Draft PMP	Oct 2014	70%	**$18,826.50**
		• 002AB - Approval of Final PMP	Dec 2014	30%	**$8,068.50**
003	APP/SSHP	• 003AA - Approval of Draft APP/SSHP	Oct 2014	80%	**$9,455.20**
		• 003AB - Approval of Final APP/SSHP	Dec 2014	20%	**$2,363.80**
004	Approved IMWP	• 004AA - Approval of Army Draft IMWP	Nov 2014	80%	**$19,092.50**
		• 004AB - Approval of Regulatory Final IMWP	Jan 2015	10%	**$5,455.00**
		• 004AC - Approval of Final IMWP	Jun 2015	10%	**$2,727.50**
005	Additional Planning Documents	• 005AA - Approval of Army Draft Other Planning Documents (excl. SWPPP)	Oct 2014	60%	**$13,119.00**
		• 005AB - Approval of Final Other Planning Documents (excl. SWPPP)	Nov 2014	20%	**$4,373.00**
		• 005AC - Approval of Draft Other Planning Documents (SWPPP)	Jan 2015	15%	**$3,279.75**
		• 005AD - Approval of Final Other Planning Documents (SWPPP)	Jan 2015	5%	**$1,093.25**
006 SWMU 1 Fieldwork Execution @ 80% completion of excavation (base contract quantity)					
006	Execute the IMWP	• 006AA – 25% (5,000 cubic yards) Completion of Base Excavation and T&D Amount	Jul 2015	25%	**$382,633.00**
		• 006AB – 50% (10,000 cubic yards) Completion of Base Excavation and T&D Amount	Jul 2015	25%	**$382,633.00**
		• 006AC – 80% (16,000 cubic yards) Completion of Base Excavation and T&D Amount	Jul 2015	50%	**$765,266.00**
006 SWMU 1 Fieldwork Execution @ 100% completion of excavation (base contract quantity)					
006	Execute the IMWP	• 006AD – 100% (20,000 cubic yards) Completion of Base Excavation and T&D Amount	Aug 2015	100%	**$385,254.00**
006 SWMU 1 Fieldwork Execution @ 100% of backfill and compaction					
006	Execute the IMWP	• 006AE - 50% Completion of Base Backfill and Compaction Amount	Aug 2015	50%	**$164,521.00**
		• 006AF - 50% Completion of Base Backfill and Compaction Amount	Aug 2015	50%	**$164,521.00**

CLIN (Task) No.	Element	Milestone	Date	% of Total CLIN Budget	Amount
007	SWMU1 Report, Including TNT Leaching Beds	• 007AA - Approval of Army Draft IM Report	Mar 2016	80%	**$19,918.40**
		• 007AB - Approval of Regulatory Final IM Report	Oct 2016	10%	**$2,489.80**
		• 007AC - Approval of Final IM Report	Nov 2016	10%	**$2,489.80**
008	Parcel 24 - PIIM	• 008AA - Approval of Final PIIM Letter WP	Feb 2015	10%	**$3,616.70**
		• 008AB - Completion of PIIM Fieldwork	Aug 2015	80%	**$28,933.60**
		• 008AC - Acceptance of PIIM Stakeholder Report	Apr 2016	5%	**$1,808.35**
		• 008AD – NMED Approval of PIIM Report	Apr 2016	5%	**$1,808.35**
009	Well Plugging and Abandonment	• 009AA - NMOSE Acceptance of Abandonment Forms	Nov 2014	2.4%	**$1,000.00**
		• 009AB - Abandon Wingate 89, 90, and 91, and FW26	Dec 2014	94%	**$39,084.00**
		• 009AC - Final Reports to all Stakeholders	Jan 2014	3.6%	**$1,500.00**
011	Meetings	• 011AA - Meeting No. 1, Acceptance of Meeting Minutes	TBD	33%	**$2,736.03**
		• 011AB - Meeting No. 2, Acceptance of Meeting Minutes	TBD	33%	**$2,736.03**
		• 011AC - Meeting No. 3, Acceptance of Meeting Minutes	TBD	34%	**$2,818.94**
Optional Tasks					
013	Option 2: Addl Yardage (2,000 CY)	• @ 100% excavation , backfill, compaction & vegetative cover	Sep 2015	100%	**$197,606.00**
014	Option 3: Addl Yardage (5,000 CY)	• @ 100% excavation , backfill, compaction & vegetative cover	Sep 2015	100%	**$495,378.00**
015	Option 4: Addl Yardage (7,500 CY)	• 015AA - @ 50% excavation , backfill, compaction & vegetative cover	Oct 2015	50%	**$331,988.00**
		• 015AB - @ 100% excavation , backfill, compaction & vegetative cover	Oct 2015	50%	**$331,988.00**
016	Option 5: Addl Yardage (10,000 CY)	• 016AA - @ 50% excavation , backfill, compaction & vegetative cover	Oct 2015	50%	**$495,685.00**
		• 016AB - @ 100% excavation , backfill, compaction & vegetative cover	Oct 2015	50%	**$495,685.00**
017	Option 6: Addl Yardage (15,000 CY)	• 017AA - @ 33% excavation , backfill, compaction & vegetative cover	Nov 2015	33%	**$498,552.78**
		• 017AB - @ 66% excavation , backfill, compaction & vegetative cover	Nov 2015	33%	**$498,552.78**
		• 017AC - @ 100% excavation , backfill, compaction & vegetative cover	Nov 2015	34%	**$513,660.44**
018	Option 7: Well Plugging and Abandonment – TMW32	• Abandon TMW32 • Final Reports to all Stakeholders and the Army within 180 days from date of exercised option	TBD	100%	**$4,027.00**

CLIN (Task) No.	Element	Milestone	Date	% of Total CLIN Budget	Amount
019	Option 8: Well Plugging and Abandonment – TMW41	• Abandon TMW41 • Final Reports to all Stakeholders and the Army within 180 days from date of exercised option	TBD	100%	**$4,006.00**

6.2 PROJECT SCHEDULE

The task order was awarded on 12 August 2014; ZAPATA's fully-executed contract was returned to the Tulsa District that same day. The project kickoff meeting was scheduled and held on 10 September 2014. A project schedule, reflective of that award and kickoff meeting date, is provided in Appendix B. The individual task durations, deliverables, and due dates are presented in the schedule. It is important to note that deliverables requiring regulatory review have lengthy review times.

As part of Appendix B, a Work Breakdown Structure (WBS) is also provided. The WBS provides a detailed task/subtask structure according the the project Contract Line Item Numbers (CLINs).

The schedule will be revised, as necessary, over the course of the project. Any change will be communicated to the project team, as soon as a necessary change is identified.

7.0 RISK AND CHANGE MANAGEMENT PLANS

7.1 RISK MANAGEMENT PLAN

Risk Management is a systematic process of identifying, analyzing, and responding to risk for the entire line of the project. A risk analysis is performed for four categories of project risk: scope, quality, schedule, and cost. The level of detail of the risk analysis and Risk Management Plan are based on complexity of the project. In the case of Interim Measures for Parcels 21 - SWMU No.1 and Parcel 24 - Igloo Black A and Abandonment of Wells, it will be the responsibility of the Contractor Management Team (program and project management), working with CESWF and CESPA, to keep track of identified risk, identify new ones, determine if agreed upon responses to risks have been executed, and evaluated the effectiveness of risk response to reduce identified risk. This will be accomplished by continuing, informal review of key project elements where the Contractor Management Team will consider potential risk that could be associated with accomplishing the project's activities, schedule, and fiscal resources. The Contract Management Team will evaluate and analyze each risk identified and determine the appropriate rating and severity (should the risk even occur) for each risk. This approach is appropriate considering the complexity of this project. As part of the post proposal preparation process, ZAPATA did prepare a risk mitigation evaluation of field activities. The recommended mitigation activities will be incorporated into the project planning documents.

7.2 CHANGE MANAGEMENT PLAN

The purpose of a Change Management Plan is to define and manage the project's baseline performance measurement thresholds for scope, schedule, cost, quality, and risk and to determine if actual project performance has exceeded these thresholds. These baseline performance measurement thresholds include:

- Scope – Defined in the PMP
- Schedule – Defined by scheduled start and finish dates in project's critical path
- Cost – Defined by resource plan that reflects total project cost
- Quality – Defined by quality objectives
- Risk – Defined by customer requirements, resource availability, and schedule

Change requests can be presented in the form of verbal or informal requests; however, proposed changes should be formally recorded in order to facilitate the understanding of the intent of the proposed change. The Change Request Form (Appendix C) provides a means of documenting the impact of the proposed changes and provides the rationale for approving changes that exceed the project's baseline performance measurement thresholds.

8.0 REFERENCES

AMEC Environmental & Infrastructure, Inc. (AMEC). 2013. Final Environmental Protection Plan, Parcel 18, Eastern Landfill. AMEC Environment & Infrastructure (AMEC), prepared for USACE Forth Worth District, July 2013.

Brown, David, ed. 1994. Biotic Communities: Southwestern United States and Northwestern Mexico. University of Utah Press, Salt Lake City. 342 pp.

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ERM, 1994. Property Transfer Investigation of the Southern Property, Igloo Blocks A, B, and C, and the Three Former Ballistic Missile Launch Sites, Environmental Resources Management, Inc. (ERM), 26 January 1994.

FWDA, 1980. Installation Assessment of Fort Wingate Depot Activity, US Army Toxic and Hazardous Materials Agency, Aberdeen Proving Ground, Maryland, January 1980.

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PMC, 2001. Final RCRA Facility Investigation Report for the TNT Leaching Beds Area, Fort Wingate Depot Activity. PMC Environmental (PMC), September 2001. FWDA Information Repository Document Number FW 01-4.

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US Environmental Protection Agency (USEPA). 2012. EPA Greenbook Nonattainment Area Map. Last updated December 2012. Website visited September 10, 2014. Available at http://www.epa.gov/oaqps001/greenbk/mapnpoll.html.

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ZAPATA, 2014a. Draft Interim Measures Workplan, Parcel 21 – SWMU 1, Fort Wingate Depot Activity, Zapata Incorporated, October 2014.

ZAPATA, 2014b. Draft Notification of Permittee-Initiated Interim Measures, Parcel 24 – AOC 18, Igloo Block A, Fort Wingate Depot Activity, Zapata Incorporated, October 2014.

ZAPATA, 2014c. Draft Spill Prevention, Control, and Countermeasure Plan, Interim Measures for Parcel 21 – Solid Waste Management Unit 1, Parcel 24 – Igloo Block A, and Abandonment of Wells, Fort Wingate Depot Activity, Zapata Incorporated, October 2014.

APPENDIX A

PERFORMANCE WORK STATEMENT

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DEPARTMENT OF THE ARMY
TULSA DISTRICT, CORPS OF ENGINEERS
1645 S. 101st E. Avenue
Tulsa, Oklahoma 74128-4609

24 June 2014

REPLY TO
ATTENTION OF
Contracting Division

SUBJECT: Amendment 0004 to RFP, Interim Measures for Parcel 21 – Solid Waste Management Unit (SWMU) No 1. & Parcel 24 – Igloo Block A and Abandonment of Wells for Fort Wingate Depot Activity (FWDA), New Mexico.

W9128F-13-D-0002
Bay West, Inc.

W9128F-13-D-0003
Engineering Remediation Resource Group, Inc.

W9128F-13-D-0004
RMC Sound Earth LLC

W9128F-13-D-0005
Hydrogeologic, LLC

W9128F-13-D-0006
EA Engineering, Science & Technology, Inc.

W9128F-13-D-0007
North Wind, Inc.

W9128F-13-D-0008
Earth Resources Technology, Inc.

W9128F-13-D-0012
Bhate Environmental Associates, Inc.

W9128F-13-D-0024
PIKA-Arcadis, JV

W9128F-13-D-0025
Zapata, Inc.

Ladies and Gentlemen:

This amendment 0004 is hereby provided to clarify that the government does in fact still require the abandonment of monitoring wells Wingate 89, 90, 91 as well as FW26 associated with PWS paragraph 7.9.2 under Task 0009. These were inadvertently struck through in Tables 1 and 2 of the PWS provided via amendment 0003. The changes in this Amendment are identified via a change-bar in the left margin.

The proposal due date remains 26 June 2014 at 11:00am CST.

If you have any questions please contact Mr. Brian Hutchison at (918)669-7426.

Sincerely,

Allen R. Bassett
Contracting Officer

Enclosures

PERFORMANCE WORK STATEMENT

USACE OMAHA DISTRICT
SMALL BUSINESS
MULTIPLE ENVIRONMENTAL GOVERNMENT ACQUISITION (MEGA)
FOR ENVIRONMENTAL REMEDIATION SERVICES (ERS)
WITH MILITARY MUNITIONS RESPONSE PROGRAM (MMRP)
MULTIPLE AWARD TASK ORDER CONTRACT (MATOC)

REQUEST FOR PROPOSAL NUMBERS:

W9128F-13-D-0002 – Bay West, Inc.
W9128F-13-D-0003 – Engineering Remediation Resource Group, Inc. (ERRG)
W9128F-13-D-0004 – RMC Sound Earth LLC
W9128F-13-D-0005 – HydroGeologic, LLC
W9128F-13-D-0006 – EA Engineering, Science & Technology, Inc.
W9128F-13-D-0007 – North Wing, Inc.
W9128F-13-D-0008 – Earth Resources Technology, Inc.
W9128F-13-D-0012 – Bhate Environmental Associates, Inc.
W9128F-13-D-0024 – PIKA-Arcadis JV
W9128F-13-D-0025 – Zapata, Inc.

Task Order No. TBD

LOWEST PRICED, TECHNICALLY ACCEPTABLE EVALUATION METHOD

PERFORMANCE BASED CONTRACT (PBC)

INTERIM MEASURES FOR PARCELS 21-SOLID WASTE MANAGEMENT UNIT (SWMU) No. 1 & 24-IGLOO BLOCK A
AND
ABANDONMENT OF ~~GROUNDWATER MONITORING~~ WELLS

FOR
FORT WINGATE DEPOT ACTIVITY, NEW MEXICO

24 JUNE 2014

1.0 INTRODUCTION

This Performance Work Statement (PWS) is for soliciting proposals under the U.S Army Corps of Engineers (USACE) Omaha District Small Business Multiple Environmental Government Acquisition (MEGA) for Environmental Remediation Services (ERS) with Military Munitions Response Program (MMRP) Multiple Award Task Order Contract (MATOC).

There are three major elements of work under this PWS.

The first element of work is an interim measures action for Solid Waste Management Unit (SWMU) 1 – TNT Beds in Parcel 21 to remove contaminated soil exceeding residential cleanup standards/Soil Screen Levels (SSL) to eliminate the residential exposure pathway and obtain No Further Action. The TNT leaching beds are the bulk of the work associated with SMWU-1, but there are other locations indicated in the PWS requiring contaminated soil to be excavated to eliminate the residential exposure pathway and obtain No Further Action.

The second element of work is an interim measures action for Igloo Block A in Parcel 24 to remove contaminated soil that exceeds residential cleanup standards/SSLs from around igloo drains to eliminate the residential exposure pathway and obtain No Further Action.

The third element of work is the abandonment of up to six monitoring wells, four in the base contract and two as optional items.

The contractor shall furnish all services, materials, supplies, plant, labor, equipment, investigations, disposal, superintendence, studies, travel, management, and all other services as required to fulfill the requirements of this PWS. The contractor shall obey all laws and regulations of the United States, the State of New Mexico, and the local governments having jurisdiction over the activities in this PWS.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Fort Wingate Depot Activity (FWDA) is located in McKinley County, NM, approximately eight miles east of Gallup, NM, and currently occupies approximately 15,277 acres.

The FWDA was originally established by the U.S. Army in 1862 at the southern edge of the Navajo territory. In 1918, the mission of the FWDA changed from tribal issues to World War I related activities. Beginning in 1940, the FWDA's mission was primarily to receive, store, maintain, and ship explosives and military munitions, as well as disassemble and dispose of unserviceable or obsolete explosives and military munitions.

2.2 Site Conditions

In January 1993, the active mission of the FWDA was ceased and the installation closed as a result of the Defense Base Realignment and Closure Act of 1990 (BRAC). In 2005, environmental activities began under Permit EPA ID No. NM 6213820974 (FWDA RCRA

Permit) was finalized in December 2005. In 2011, Permit NM 6213820974 was modified for activities in the Corrective Actions Management Unit located in Parcel 3, and in 2014, the Permit was modified again for activities associated in Parcel 3. There will be no work performed in Parcel 3 for the PWS.

3.0 PERFORMANCE OBJECTIVES AND STANDARDS

FWDA is currently undergoing final environmental characterization and restoration activities prior to final property transfer and reuse. The objectives of the PWS include the removal of contaminated soils and the abandonment of wells to obtain regulator approved completion reports requiring no further action for Solid Waste Management Units (SWMU) No. 1 (soil only) and other areas, including designated Areas of Concern (AOCs). These are:

- Parcel 21 – SWMU 1- TNT Leaching Beds and Building 503 area.
- Parcel 24 – AOC 18 (Only the part of A-Block in Parcel 24)
- ~~Abandon Artesian Wells in Parcels 16 and 19~~
- Abandon monitoring wells in Parcel 10B and 11

For the TNT leaching beds and other locations associated with Parcel 21, soils shall be excavated to a depth that eliminates the residential exposure pathway. In Parcel 24, igloo block A, soil from around igloo drains shall be excavated to eliminate the residential exposure pathway. Additionally, the contractor shall abandon up to six groundwater monitoring wells in accordance with the New Mexico Administrative Codes (NMAC).

The Contractor shall be required to meet the performance objectives and standards identified in Table 1 below.

Table 1 - Performance Requirements Summary
Refer to Attachment B for acronyms

Performance Objective	Standard	PERFORMANCE THRESHOLD	Method of Surveillance/ Measurement
Task 1 Project Kick off Meeting	Preparedness, take meeting minutes, disseminate minutes.	The minimum acceptable level of service shall be USACE acceptance and approval of the meeting minutes	100% COR verification
Task 2 Prepare and submit a PMP	The PMP shall be prepared in accordance with EM 200-1-2, and requirements stipulated in Task 1	The minimum acceptable level of service shall be USACE acceptance and approval of the PMP.	100% COR verification

Performance Objective	Standard	PERFORMANCE THRESHOLD	Method of Surveillance/ Measurement
Task 3 Prepare, APP, SSHP and an AHA	The APP, SSHP, and AHA, shall be prepared IAW the USACE Safety Manual, EM 385-1	The minimum acceptable level of service shall be attained upon USACE receipt and approval of the APP, SSHP, and the AHA	100% COR verification
Task 4 Prepare and submit Interim Measures (IM) Work Plan (WP) for SWMU 1.	The IMWP shall be prepared IAW the FWDA RCRA Permit and the FWDA Document Format Guidance.	The minimum acceptable level of service for the IMWP shall be the Army receipt of NMED's approval letter.	100% COR verification
Task 5 Prepare all other required planning documents, the EPP, Waste Management Plans, and the SWPPP,	The EPP, Waste Management Plans and the SWPPP shall be prepared and submitted IAW the PWS and applicable state and federal regulations	The minimum acceptable level of service shall be attained upon receipt and acceptance by USACE of all the plans noted in Task 5	100% COR Verification
Task 6 Execute SMWU 1 IMWP	Work performed IAW with the NMED approved IMWP, and IAW safety protocols discussed in the APP and SSHP.	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification
Task 7 Prepare and submit to the IM Report for SWMU 1	The report shall document the results of the fieldwork and be written IAW other similar FWDA reports, FWDA RCRA Permit, NMED requirements, and the FWDA Document Format Guidance.	100% Approval from NMED.	100% COR verification
Task 8 Parcel 24 Prepare Permittee-initiated interim measures	Prepare and submit a letter notification for a Permittee-initiated interim measure IAW other similar FWDA Permittee-initiated interim measures, and IAW NMED requirements, execute field work IAW with the Permittee-initiated letter notification , and submit the final report	The minimum acceptable level of service for the Parcel 24 Permittee-initiated interim measures, determined by the COR's QAR, and approved by NMED	100% COR verification
Task 9 Abandon Wells	Submit and gain approval from the NMOSE for plans to abandon wells, and submit abandonment reports IAW with 19.27.4 NMAC.	The minimum acceptable level of service shall be to abandon wells in accordance with plans and accepted by the NMOSE, determined by the Project Geologist	100% COR verification

Performance Objective	Standard	PERFORMANCE THRESHOLD	Method of Surveillance/ Measurement
~~Task 10 Determine the condition of the well in K-Block~~	~~Letter report documenting the condition of the well in K-Block~~	~~The minimum acceptable level of service shall be attained upon USACE receipt and approval of the well condition letter report~~	~~100% COR verification~~
Task 11 Attend three meetings in the Gallup area.	Attend a total of three, one day meetings, at Fort Wingate in Gallup, New Mexico throughout the period of performance for the task order.	The minimum acceptable level of service is to update regulators and stakeholder on the progress of the SMWU 1 and Parcel 24 tasks associated with this PWS. The contractor shall have adequate presentation materials at the meeting to effectively communicate with the meeting attendees, determined by the BEC, PM, PgM, or COR	100% COR verification
~~**Task 12 – Option 1** If required, plug and abandon one additional well~~	~~Submit and gain approval from the NMOSE for the plan to abandon the well and submit the abandonment report IAW 19.27.4 NMAC.~~	~~The minimum acceptable level is the abandonment of the well and acceptance by the NMOSE, determined by the Project Geologist~~	~~100% COR verification~~
Task 13 - Option 2 Remove and backfill an additional 2000 CY of soil from the TNT leaching Beds	IAW Task 12 - Option 2, survey to verify additional quantities, collect confirmatory samples, waste characterization samples, dispose of soils, and backfill the additional 2000 CY	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification
Task 14 - Option 3 Remove and backfill an additional 5000 CY of soil from the TNT leaching Beds	IAW Task 13 - Option 3, survey to verify additional quantities, collect confirmatory samples, waste characterization samples, dispose of soils, and backfill the additional 5000 CY	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification
Task 15 - Option 4 Remove and backfill an additional 7500 CY of soil from the TNT leaching Beds	IAW Task 14 - Option 4, survey to verify additional quantities, collect confirmatory samples, waste characterization samples, dispose of soils, and backfill the additional 7500 CY	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification
Task 16 - Option 5 Remove and backfill an additional 10,000 CY of soil from the TNT leaching Beds	IAW Task 15 - Option 5, survey to verify additional quantities, collect confirmatory samples, waste characterization samples, dispose of soils, and backfill the additional 10,000 CY	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification

Performance Objective	Standard	PERFORMANCE THRESHOLD	Method of Surveillance/ Measurement
Task 17 - Option 6 Remove and backfill an additional 15,000 CY of soil from the TNT leaching Beds	IAW Task 16 - Option 6, survey to verify additional quantities, collect confirmatory samples, waste characterization samples, dispose of soils, and backfill the additional 15,000 CY	100% of work proposed in the work plan shall be completed as determined by the COR's QAR	100% COR verification
Task 18 - Option 7 monitoring well TMW32	IAW Task 18 - Option 7, Plug and Abandon Well if required by excavation. Submit and gain approval from the NMOSE for plans to abandon wells, and submit abandonment reports IAW with 19.27.4 NMAC.	The minimum acceptable level of service shall be to abandon wells in accordance with plans and accepted by the NMOSE, determined by the Project Geologist	100% COR verification
Task 19 - Option 8 monitoring well TMW41	IAW Task 19 - Option 8, Plug and Abandon Well if required by excavation. Submit and gain approval from the NMOSE for plans to abandon wells, and submit abandonment reports IAW with 19.27.4 NMAC.	The minimum acceptable level of service shall be to abandon wells in accordance with plans and accepted by the NMOSE, determined by the Project Geologist	100% COR verification

There may be multiple milestones and/or deliverables for each performance objective. Payments will be based on successful completion of the milestones. Final decisions regarding the adequacy of milestone and deliverable completion resides with the COR with appropriate acceptance and approval of necessary documentation by regulators, consistent with applicable regulatory requirements listed in Section 1.0 of this PWS and consistent with the Performance Requirements Summary in Table 1. For the duration of the contract, the Contractor shall remain responsible for corrections.

4.0 PROJECT MANAGEMENT

This PWS requires careful coordination of project activities to ensure that all stakeholders are kept informed of the project status, existing or potential problems, and any changes required to prudently manage the project and meet the needs of the project stakeholders and decision-makers, specifically the Base Realignment and Closure (BRAC) Office, the USEPA, the New Mexico Environment Depart (NMED) – Hazardous Waste Bureau (HWB), and two native American tribes (Navajo Nation and the Zuni Pueblo)

4.1 Deliverables and Review Schedule

All documents, unless otherwise specified, must be produced as Draft and Final versions. The contractor shall deliver submittals to each recipient, with COR concurrence. Draft documents shall be reviewed by the Army before final documents are drafted and submitted to applicable recipient. Final document shall not be submitted until the contractor has address all comments received from Army reviewers Once comments are addressed, the Army will review final

documents before submission to appropriate agencies, allowing for a maximum of 30 calendar days for review per deliverable. All final documents shall be submitted with official BRAC submittal letters. Unless otherwise directed, the contractor shall draft these submittal letters and submit to the COR for signature. Once the "signed" BRAC submittal letters are returned to the contractor, the final document(s) shall be submitted to all appropriate recipients. Not all submittals have the same recipients. Submittal recipients are discussed Section 7 of the PWS.

4.2 Project Schedule

As part of the PMP, the Contractor shall, 1) develop and maintain a Work Breakdown Structure (WBS). The Contractor shall submit a WBS in the PMP. The WBS shall be prepared in hard copy and electronic copy in Microsoft Project version 2010, or later. The WBS shall be provided to USACE upon request, and updated as required. The WBS shall include 100% of the work defined by this PWS and capture all deliverables, and cost associated with each deliverable, 2) The PMP shall discuss lines of communication. The contractor shall coordinate and receive approval from the Army to communicate with all stakeholders (NMED, tribes, EPA, etc…) with the exception of the contractor's subcontractors and, 3) the PMP shall describe the process by which the contractor will deliver weekly and monthly progress reports. Weekly and monthly progress report shall be submitted during all fieldwork activities. During no fieldwork, or during demobilizations, the contractor shall submit monthly progress reports.

The WBS shall fully support the technical approach and outlines activities and milestones defined at the appropriate level of detail; logically sequenced to support and manage completion of the performance objectives in the PWS and which allows for sufficient review time of deliverables. Additionally, the due dates for all payable deliverables shall be identified. A payment plan shall be included with the WBS that may allow for payments to the Contractor based on successful completion of interim milestones proposed by the Contractor. Activities identified in the respective QASPs should be appropriately coded to allow for planning of QA inspections. It is the Army's intent to make all payments after verification of milestone completion in accordance with each task's schedule. All performance objectives must be completed within the allowable period of performance for the task order. The Contractor shall need to take into account the existing or future schedules developed under the applicable objectives listed in Section 1.0 of this PWS. The Contractor shall also need to coordinate activities with the COR to ensure that the proposed project task schedules do not conflict with other contractor activities on site, or interrupt other environmental restoration activities.

The PMP shall be submitted to the COR, and as shown in the submittal schedule as draft. The Army will review and comment on the document. All comments shall be addressed. Once the contractor has addressed comments, the Contractor shall submit the Final PMP.

4.3 Project Milestones

The Contractor shall propose pricing for the performance milestones presented in Table 2 - Performance Milestones on the following page. The Contractor may propose interim milestones to the Major Milestones within the Table. Interim milestones will only be accepted if they represent significant progress toward milestone completion, and completion of these interim

steps can be measured and demonstrated. As noted in Section 3.0, payments will be tied to the successful completion of the following milestones or an interim milestone plan approved by the Army, through the COR. To that end, all proposed interim milestones should be associated with required deliverables. All milestones must have a defined means for demonstrating completion in order to facilitate certification and approval (see Section 8.2 of this PWS, Certification and Approval of Project Milestones and Deliverables).

	TABLE 2 - PERFORMANCE MILESTONES			
CLIN (TASK)	**Milestone Task**	**Performance Acceptance Standards and Approval Authority**	**Deliverable**	**Proposed Cost**
001	Project Kick-Off Meeting at FWDA within 30 days of task order award	Government review and written acceptance	Project Kick-off Meeting Minutes	
002	Approved PMP • Draft Plans within 30 calendar days of Project Kick-Off meeting, • Final Plans within 30 calendar days of receipt of Army comments on the drafts	Government review and written acceptance	Final Project Plans	
003	Approved Safety Plans • Draft Plans within 30 calendar days from date of award, • Final Plans within 30 calendar days of receipt of Army comments on the drafts.	Government review and written acceptance	Final Project Safety Plans	
004	Approved IMWP • Draft IMWP within 90 calendar days from date of award • Army review within 30 calendar days of after receipt of Draft IWMP • Submit IWMP to NMED and stakeholder 30 days after receipt of Army comments • ~~Approval from NMED by 365 calendar days from date of contract award~~	Government review and written acceptance of Draft IMWP. NMED approval of Final IMWP.	Approved Work Plan	
005	Additional Planning Documents • Final EPP and SPCC within 90 calendar days from date of award • Final Waste Management Plan and Hazardous Waste Contingency Plan within 90 days of award • Final SWPPP within 90 day of contract award	Government review and written acceptance	Notice of Completion of Task.	

	TABLE 2 - PERFORMANCE MILESTONES			
CLIN (TASK)	**Milestone Task**	**Performance Acceptance Standards and Approval Authority**	**Deliverable**	**Proposed Cost**
006	Execute the IMWP • Excavate soil to meet the residential exposure to soil in accordance with NMED guidance • Request to execute Option 2 through 6, if required to illuminate the residential exposure in accordance with NMED guidance • Backfill excavated areas • Reseed excavated areas • Task completed within 90 calendar days of approved IMWP	Government inspection and written acceptance of completed work	Notice of Completion of Task.	
007	SWMU 1 Report, Including TNT Leaching Beds • Army draft IM report submitted within 60 days of Task 6 completion • Final IM Report submitted to NMED and stakeholders within 45 days of receipt of Army team comments • Stakeholders, other than NMED, review 90 days from date of final report submittal • NMED Approval of SWMU 1 Report within 365 days of Task 6 completion	Regulatory acceptance and approval of Final Report	NMED Approval of IM Report	
008	Parcel 24 – Permittee-Initiated Interim Measures • Army Draft Permittee-Initiated IM Letter Notification within 90 calendar days from date of award • Submit Stakeholder for review (60-day review for stakeholders other than NMED) • NMED Approval of IM Notification • Execution of IA • Submit Stakeholder Report for review (90 day rvw) • NMED Approval of Report (445 calendar days from the date of contract award)	Regulatory acceptance and approval of Final Report	NMED Approval of IM Report	

	TABLE 2 - PERFORMANCE MILESTONES			
CLIN (TASK)	**Milestone Task**	**Performance Acceptance Standards and Approval Authority**	**Deliverable**	**Proposed Cost**
009	Well Plugging and Abandonment • Abandon Wingate 89, Wingate 90, Wingate 91, and FW26 • Final reports to all Stakeholders and the Army within 180 days from the data of contract award	OSE acceptance and approval	Final abandonment reports submitted and accepted by the NMOSE and all Stakeholder, including the Army and NMED	
~~010~~	~~Determine the condition of the well in K Block~~ ~~• Request verbal authorization to abandon the well, if required~~	~~Government review and written acceptance~~	~~Letter documenting the condition of the well in K Block~~	
011	Meetings • Attend up to three meeting during the execution of this PWS	Government review and written acceptance	Meeting minutes and, presentations material	
~~012~~	~~OPTION 1: Plug and abandon well in K block – If Required~~	~~OSE acceptance and approval (if required)~~	~~Final abandonment reports submitted and accepted by the NMOSE and all Stakeholder, including the Army and NMED, if required~~	
013	OPTION 2: Additional Yardage (2000 CY) @100% excavation, backfill, compaction, & vegetative cover	Government inspection and written acceptance of completed work	Refer to CLIN 006	
014	OPTION 3: Additional Yardage (5000 CY) @100% excavation, backfill, compaction, & vegetative cover	Government inspection and written acceptance of completed work	Notice of Completion of Task.	
015	OPTION 4 - Additional Yardage (7500 CY) @100% excavation, backfill, compaction, & vegetative cover	Government inspection and written acceptance of completed work	Notice of Completion of Task.	
016	OPTION 5 - Additional Yardage (10,000 CY) @100% excavation, backfill, compaction & vegetative cover	Government inspection and written acceptance of completed work	Notice of Completion of Task.	
017	OPTION 6 - Additional Yardage (15,000 CY) @100% excavation, backfill, compaction & vegetative cover	Government inspection and written acceptance of completed work	Notice of Completion of Task.	

	TABLE 2 - PERFORMANCE MILESTONES			
CLIN (TASK)	**Milestone Task**	**Performance Acceptance Standards and Approval Authority**	**Deliverable**	**Proposed Cost**
018	OPTION 7 - Well Plugging and Abandonment • Abandon TMW32 • Final reports to all Stakeholders and the Army within 180 days from the date of exercised option	OSE acceptance and approval	Final abandonment reports submitted and accepted by the NMOSE and all Stakeholder, including the Army and NMED	
019	OPTION 8 - Well Plugging and Abandonment • Abandon TMW41 • Final reports to all Stakeholders and the Army within 180 days from the date of exercised option	OSE acceptance and approval	Final abandonment reports submitted and accepted by the NMOSE and all Stakeholder, including the Army and NMED	

5.0 EXPERTISE AND NECESSARY PERSONNEL

The Contractor shall provide the necessary personnel and equipment to successfully execute this PWS. The Contractor is responsible for determining the requirements for licensed professionals and certifications.

The Contractor shall furnish all plant, labor, materials and equipment necessary to meet the performance objectives. The Contractor shall provide personnel trained as required by the Occupational Safety and Health Administration (OSHA) and all other applicable federal and state regulations. The Contractor shall provide all support activities necessary to ensure the safe and effective accomplishment of all work. For all work performed under this contract, the Contractor shall also develop and implement quality control measures consistent with all applicable federal and state regulatory requirements and standards.

The Contractor shall propose key personnel required to achieve the objectives. The Contractor shall notify the COR of any changes in key personnel. The change of key personnel is subject to approval by the COR, although such approval will not be unreasonably withheld provided replacement personnel are of the same quality as originally proposed.

6.0 PERFORMANCE

6.1 Period of Performance

The period of performance for the Base and all Options is 3 years from the date of task order award.

6.2 Performance Requirements

The Contractor shall identify applicable federal, state and local laws and regulations; agreements, or rules; and perform its work in accordance with said authorities. The Contractor shall ensure that all activities performed by its personnel, subcontractors and suppliers are executed in accordance with said authorities. Any incident of noncompliance noted by the Contractor shall immediately be brought to the attention of the COR telephonically and via e-mail. Nothing in this contract shall relieve the Contractor of its responsibility to comply with applicable laws and regulations. The Contractor shall obtain all permits, licenses, approvals, and/or certificates required or necessary to accomplish the work. When the work to be performed requires facility clearances, such as digging or drilling permits, the Contractor shall obtain such clearances and/or permits prior to any drilling or excavating operations. The Contractor shall be responsible for locating all utilities in the area. Active utilities shall be avoided. If abandoned utilities are excavated during the execution of any of the task in the PWS, they shall be disposed IAW landfill requirements and applicable local, state, and federal laws and regulations. The contractor shall coordinate with the FWDA Manager (Mr. Richard Cruz) to locate utilities. Before any excavation occurs, the Contractor shall have written approval from Mr. Cruz, or his designee, and signed approval clearance documentation.

The Contractor shall consider and implement green response/remediation strategies and applications to maximize sustainability, reduce energy and water usage, promote carbon neutrality, promote industrial materials reuse and recycling, and protect and preserve land resources, consistent with DoD's Policy on Consideration of Green and Sustainable Remediation Practices in the Defense Environmental Restoration Program. The contractor shall present green remediation options and approaches in its work plans, maintain records of "green–related" activities, and report this information to the COR in its project status report.

6.2.1 Health and Safety Requirements

Prior to beginning any field work, the Contractor shall implement a written Safety and Health Program compliant with federal, state, and local laws and regulations and approved by the Contracting Officer (KO). The Contractor shall ensure that its subcontractors, suppliers and support personnel comply with the approved Site Safety and Health Plan (SSHP). The Army reserves the right to stop work under this contract for any violations of the SSHP at no additional cost to the Army. Once the Army verifies through the COR that a safety violation has been corrected, the Contractor shall be able authorized to continue work. As a minimum, the SSHP shall contain the following elements: site description and contaminant characterization, safety and health hazard(s) assessment and risk analysis, safety and health staff organization and responsibilities, site specific training and medical surveillance parameters, personal protective equipment (PPE) and decontamination facilities and procedures to be used, monitoring and sampling required, safety and health work precautions and procedures, site control measures, on-site first aid and emergency equipment, emergency response plans and contingency procedures (on-site and off-site), logs, reports, and record keeping. Additionally, all personnel shall provide the administration office with applicable OSHA certifications, such as the 40-HAZOPER certification, and follow on 8-hr refresher training.

6.2.2 Safety Documentation and Reporting

Army Engineering Manual 385-1-1, part 01.D "Accident Reporting and Recordkeeping" is required for the work identified in this PWS. The Contractor will comply with all USACE guidance.

6.2.3 Quality Management

The Contractor must ensure that the quality of all work performed or produced under this contract meets Army approval, through the COR. The Contractor's Quality Control Plans must be prepared and approved by the COR prior to performance of physical work.

Since the technical approach for this PWS shall be developed by the Contractor, the Contractor shall also develop a proposed Quality Assurance Surveillance Plan (QASP) for each task for use by the Army. A Draft QASP using the template provided in Attachment C and incorporating the Performance Requirement Summary (Table 1) of the PWS shall be submitted with the PMP deliverable within thirty (30) calendar days of award. The Final QASPs will be prepared by the Army.

The QASPs should highlight key quality control activities or events that the COR will use to determine when Army (COR or KO) inspections can be conducted to assess progress toward and/or completion of milestones. Activities identified in the QASPs should be appropriately coded in the project schedule to allow for planning of QA inspections.

6.2.4 Quality Control

6.2.4.1 Data Quality

The Contractor shall provide data quality of a level sufficient for the support of project objectives as specified in the approved work plans. The Contractor shall provide QC of the various analytical tasks performed. The Contractor is responsible for achieving the data quality specified in the approved work plans. Analytical data that does not meet QA requirements may be rejected by the Government; to be corrected at the Contractor's expense.

6.2.5 Protection of Property

The Contractor shall be responsible for any damage caused to property of the United States (Federal property) by the activities of the Contractor under this contract and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the Contractor incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the Contractor to a condition satisfactory to the COR or reimbursement is made by the Contractor sufficient to restore or replace the property to a condition satisfactory to the COR in accordance with FAR Clause 52.245-2.

6.2.6 Project Stakeholders

For the purposes of this PWS, project stakeholders include the USEPA, NMED-HWB, the Zuni Pueblo, the Navajo Nation, the Bureau of Indian Affair, and the Department of Interior.

6.2.7 Regulatory Involvement

All regulatory coordination shall be approved by the Army through the COR. The Contractor shall provide the necessary support to initiate, schedule, and address all regulatory aspects of the project (e.g., organizing discussions with regulators concerning site response objectives and completion requirements, obtaining regulator comments on site documents and appropriately addressing any comments). The BRAC Environmental Coordinator, or designee, will attend and represent the Army at all meetings with the regulators. The Army is the only the signature authority for all regulatory agreements and documents.

6.2.8 Communications

The Contractor shall ***not make available or publicly disclose*** any data or report generated under this contract unless specifically authorized by the Army. If any person or entity requests

information from the Contractor about the subject of this PWS or work being conducted hereunder, the Contractor shall refer them to the COR. All reports and other information generated under this PWS shall become the property of the Government, and distribution to any other source by the Contractor is prohibited unless authorized by the Army.

6.2.9 Deliverable Requirements

All documents must be produced with at least draft and the final versions, unless otherwise specified by the COR. The Army, through the COR, will receive initial draft documents and will provide comments to the Contractor within thirty (30) calendar days. Once initial comments are addressed, the Army will review final documents before submission to appropriate stakeholder and/or regulatory agencies. The Contractor shall ensure that review periods are consistent with the project schedule noted in Section 4.2. All documents shall be identified as draft until completion of Army review and acceptance of the final version, when they will be signed and finalized.

The Contractor shall propose deliverables and payment milestones as part of its proposal, and if approved by the Army, included as part of the PMPs. Final decisions regarding the adequacy of milestone and deliverable completion resides with FWDA and the COR (see Section 4.3, Milestone Presentations) and will be based on the appropriate acceptance and approval of required documentation by Regulatory Agencies.

6.2.9.1 Corrections to the Submitted Documents

Any revisions or corrections resulting from comments made during the review of the initial submission of the submitted documents shall be incorporated into the final documents. These revisions or corrections will be in the form of a complete new plan/report. Pen and ink changes or errata sheets will not be acceptable. Page slips will be acceptable for minor changes. All draft and final document shall be prepared IAW the FWDA Submittal Guidance Document (See Government Furnish Information).

6.2.9.2 Final Submission Format

All draft and final document shall be prepared IAW the FWDA Submittal Guidance Document (See Government Furnish Information).

7.0 TASK REQUIREMENTS

7.1 CLIN 001 (Task 1): Project Kick-Off Meeting

The Contractor shall participate in a kick off meeting at Fort Wingate Depot Activity, New Mexico within 30 days of task order award. A separate site visit will be conducted prior to initiation of work to discuss the path forward. The Contractor shall prepare meeting minutes and provide them to all meeting participants within seven business days of the kick off meeting. This meeting shall be held no later than 30 days after award of the contract

7.2 CLIN 002 (Task 2): Project Management Plan

7.2.1 Project Management Plan. The Contractor shall develop and maintain a detailed Project Management Plan (PMP) for all tasks under the PWS. The PMP, based on the schedule prepared as part of the Contractor proposal, shall specify the schedule, management and technical approach and resources required for the planning, execution, and completion of each task's performance objectives. The first draft of the PMP shall be due within thirty (30) calendar days of the Project Kick-off meeting and shall include a copy of the payment milestones. The draft PMP, payment milestones, and subsequent revisions shall be subject to Army review and approval through the COR. The final PMP shall be due within 30 calendar days of receipt of Army comments. For additional details to be included in the PMP, refer to Section 4.2.

7.2.2 Quality Assurance Surveillance Plan. The Contractor shall edit the proposed draft QASP for each task for use by the Government. A revised Draft QASP using the template provided in Attachment C and incorporating the Performance Summary Objective in Table 1 and shall be submitted with the PMP deliverables. The Final QASP will be prepared by the Government.

The QASP should highlight key quality control activities or events that the COR will use to determine how Government (COR or CO) inspections will be conducted to verify progress toward and/or completion of milestones. Activities identified in the QASP should be appropriately coded in the project schedule to allow for planning of QA inspections.

Following contract award and during task(s) implementation(s), the Contractor shall develop and submit documentation of task-specific QA and QC activities to be implemented. The government will review and return the quality systems documentation, with comments, indicating acceptance or rejection. If necessary, the Contractor shall revise the documentation to address all comments and shall submit the revised documentation to the COR for acceptance. In addition, the Contractor shall develop and submit Quality Control Summary Reports to summarize the quality control details of the project.

The PMP is to be submitted to the Army team only. Refer to the GFI for distribution.

7.3 CLIN 003 (Task 3), Accident Prevention Plan (APP), Site Specific Health and Safety Plan (SSHP), and Activity Hazard Analysis/Analyses (AHA):

The contractor shall prepare an Accident Prevention Plan (APP). The AAP shall be project specific and shall address procedures to implement all of the activities described in all work planning documents. The AAP shall be submitted to the COR for acceptance prior to starting any fieldwork. The contractor shall use the same APP on all mobilizations including corrective actions and amend as site conditions warrant. In additional to the APP, the contractor shall develop a Activity Hazards Analysis/Analyses (AHA). The AHA shall be posted in an area(s) visible to all workers. The AHA shall be included in the APP. The APP and AHA shall be prepared in accordance with the USACE Safety Manual, EM 385-1-1, as amended.

The contractor shall also develop and submit a Site Safety and Health Plan (SSHP) IAW EM 385-1-1 Chapter 28.

The Contractor shall submit this document as a draft to the USACE COR within 30 days of contract award. USACE may comment on the draft. If comments are submitted to the Contractor, the Contractor shall address all comments and revise this document and submit the final within 30 days of receiving Army comments..

Explosive Safety Submittal: For the TNT leaching beds, the Contractor shall conduct activities IAW the FWDA Explosive Safety Submittal (ESS) to excavate, remove, and/or mix soils that have a explosive constituent concentrations above ten percent (10%).

All safety documents are to be submitted to the Army team only. Refer to the GFI for distribution.

7.4 CLIN 004 (Task 4): SMWU 1 Interim Measures Work Plan

The contractor shall prepare an Interim Measures Work Plan (IMWP) detailing all aspects of work for the project. The first draft of the WP shall be due within 90 calendar days from contract award. The draft IMWP and subsequent revisions are subject to Army review and acceptance through the COR. The final IMWP shall be due within 30 calendar days of receipt of Army comments. A payment milestone will be established for Army acceptance of the final WP through the COR.

The contractor shall prepare the IMWP for an approach for removing all soils exceeding the current Permit required cleanup levels defined by the current NMED Soil Screening Guidance and RCRA Permit. The cleanup levels identified in the RCRA Facility Investigation (RFI) 21 Work Plan and Report have changed since their publication. The Parcel 21 RFI will be included in the GFI. The Contractor shall compare the results identified in both documents to the current NMED Soil Screening Levels (SSLs) and identify and utilize exceedances based on the current SSLs.

This IMWP task includes the entire SWMU 1 area (as defined in the Permit and this PWS) where cleanup level exceedances are identified in the NMED approved Parcel 21 RFI Work Plan and Report (note above paragraph). This includes areas around former Buildings 503, 504, the two TNT leaching beds (diamond and triangular shaped), areas around former conveyances and former ground structures as well as any other areas identified in the Parcel 21 RFI Work Plan and Report.

Additional data for this task were recently collect in the TNT leaching beds. Thirty-four (34) geoprobe cores were advanced to 35 ft below ground surface (bgs), or refusal, and soil samples were collect at 5-ft intervals and analyzed from perchlorate, explosives and nitrate/nitrite. These chemical data are provided in the GFI to estimate the quantity of soils to be removed.

Cleanup levels for soil shall be determined as described in Attachment 7 of the FWDA RCRA Permit. All cleanup levels shall be based on SSLs and cumulative risk for residential land use scenario (*IAW Risk Assessment Guidance for Site Investigations and Remediation, Section 6, current version.* The range of depth for residential exposure is 0 to 10 feet bgs.

Current SSLs shall be included in a table as part of the IMWP, and analytical data shall be evaluated and compared to these SSLs. Through coordination with the COR, the cleanup levels (based on current SSLs) will require NMED approval which will be sought with the submittal of the IMWP.

The objective for the TNT leaching beds is to remove soils until the residential exposure pathway is eliminated. The soil SSLs, IAW *Risk Assessment Guidance for Site Investigations and Remediation, Section 6, current version,* shall be used to determine whether this requirement is met.

The contractor shall assume the following:

a. Remove, characterize, transport, and properly dispose of 20,000 Cubic Yards (CY) of explosives contaminated soil and debris from the SWMU 1 Area. The 20,000 CY estimate shall include the following: 1) transportation to a disposal facility, 2) disposal cost, 3) all sample requirements for confirmation and waste characterization, 4) transportation of clean backfill, backfilling, 5) compaction, and 6) all surveys.

b. The Contractor shall provide a firm fixed unit price for Contract Option two (2) through six (6), CLINs 11 through 15, for additional excavation above the 20,000 CY amount. Each Option estimate shall include all cost element as the base contract (20,000 CY): 1) transportation to a disposal facility, 2) disposal cost, 3) all sample requirements for confirmation and waste characterization, 4) transportation of clean backfill, backfilling, 5) compaction, and 6) all surveys. Refer to Option two (2) through six (6) for quantities associated with each option. Options shall be awarded at the time the base contract is award. However, if the option is not executed, the Government shall not be charged for that option. The intent of these Options are to 1) quickly evaluate the need to excavate additional soil if the objective of this task cannot be met with the base contract volume (20,000 CY), and 2) quickly execute one or more combinations of Option two (2) through six (6) without demobilizing and remobilizing. ONLY THE KO can authorize the execution of any of these Options.

c. The Contractor will monitor the excavation progress and notify the COR if additional removal quantities are required after approximately 75-80% of the base contract quantity is removed, and provide an estimated quantity of additional soil to be removed to the KO and COR. If additional quantities are required, the KO (AND ONLY THE CONTRACTING OFFICER) will provide verbal direction to the contractor to proceed removing the additional estimated quantity, based on Options two (2) through Option six (6), one (1) option or any combination thereof. The intent of this procedure is to eliminate field delays, and demobilization and remobilization.

d. Munitions and Explosives of Concern (MEC) are anticipated in the TNT Leaching Beds. Stained soil, at the surface of the northern leaching beds, have explosives constituent above ten percent (10%). This is an MEC by Army guidance. If any MEC, other than the explosive soil is found or suspected, all work shall stop, the Contractor shall notify

the COR and on the site USACE OESS immediately for evaluation and proper disposition.

e. Waste characterization test parameters shall be determined between the contractor and disposal facility, and accepted by the Army

f. Confirmation samples shall be tested for explosives, perchlorate, TAL metals, SVOCs, and nitrate. Test methods shall be approved by NMED in the IMWP. The IMWP shall be written in a similar fashion as the *Final Investigation and Remediation Work Plan, Parcel 18, Eastern Landfill, Rev 1, dated February 6, 2013.* See GFI. The contractor shall use this as a guide for waste characterization and confirmation sampling quantities, spacing and frequency.

g. As the excavated area is backfilled, the fill material shall be compacted in one foot lifts. The final grade shall be one foot above the existing grade of the surrounding area to account for future settlement. The Contractor shall propose a compaction approach in the IMWP that will minimize settlement.

The Contractor shall submit the IMWP in accordance with this PWS, and the FWDA RCRA Permit dated December 2005 (Revised June 2014) in draft and final versions. The Contractor is responsible for any revised final versions if required by NMED at no additional cost to the government. In order to minimize the potential for a revised final version, the Army will facilitate coordination with NMED prior to submission if so requested by the Contractor. The Contractor shall prepare written responses to address comments received by reviewers. Once accepted, the Contractor shall make changes and submit to the USACE COR the corrected version of the IMWP. If an additional version is required due to NMED comments, this version shall be identified as the Final IMWP Version 2. If requested by the Army, the Contractor will participate in conference calls with the tribes, NMED, or other stakeholders, to resolve their comments. The final IMWP requires NMED approval; therefore, this Task is not complete until the Army receives written approval from NMED.

There will be two version of the IWMP. The draft version shall be submitted to the Army team only. The next version shall be the final version, and submitted to all stakeholders, including NMED. Stakeholders, such as EPA, NMED, Navajo Nation and/or the Zuni tribe may comment on this final document. Stakeholders other than NMED will be given 60 days to review the work plan. NMED may take longer than sixty days. If comments are received on the final version of the IMWP, the contractor shall revise the IMWP at no additional cost to the Government.

A list of document recipients for the Army team and stakeholder is provided in the GFI

NOTE 1: The contractor shall estimate the quantity of soil removed by truckload. However, to verify quantities, the contractor shall survey the excavated area(s) using a New Mexico Licensed surveyor. The TNT leaching beds shall be baseline surveyed, and surveyed when the Contractor estimates 80% of the base contract quantity has been excavated. Additional surveys shall be required to verify “Option” quantities.

NOTE 2: Discrete soil samples were collected and analyzed for explosive constituents from soil-stained areas in the northern TNT leaching bed. The results from these samples were above the ten percent (10%) threshold for explosive soils. These stained areas do not cover the entire site, and are not expected to be deeper than two (2) feet. For estimating purposes, the contractor shall assume that no more than five (5) cubic yards of soil are above the ten percent (10%) for explosives constituent. Thirty-four (34) geoprobe soil samples were collected and analyzed for explosives, nitrate/nitrite and perchlorate to a depth of 35 feet below ground surface, and collected at 5-foot intervals (starting at 0 feet). These analytical results are provided with GFI.

NOTE 3: The contractor shall scrap the first one (1) foot of soil from both of the TNT leaching beds, and remove the berms from the diamond shaped leaching bed (north bed).

NOTE 4: Soil-stained areas are assumed to have ten percent (10%) or more of explosive constituents. These soil-stained areas shall be mixed and homogenized with the first foot of soil scrapped out of the TNT leaching beds. The first foot shall be placed in an area within the TNT leaching beds and thoroughly mix and homogenized to reduce the overall explosive constituent concentrations. While this operation is being conducted, the Contractor shall have one (1) UXO Tech II and one (1) UXO Tech III onsite. Once the concentrations of explosives are below the ten percent (10%) threshold, confirmed by multi-incremental sampling, the contractor shall proceed with normal excavation operations. The UXO Techs will no longer be required.

7.5 CLIN 005 (Task 5): Additional Plans Required for Work Executed for this PWS

The following plans are for submission to the Army only. One draft and final of each shall be submitted to the Army team, only. The Army team will review the draft documents. Draft documents are to be submitted within 45 calendar days from the date of contract award. All comments submitted to the Contractor shall be addressed and/or incorporated in the next version. The Contract shall submit the following document, as final, no later than 30 calendar days from the date the contractor receives Amy team comments.

7.5.1 Environmental Protection Plan and Spill Prevention, Control, and Countermeasure (Separate Document): The Contractor shall write an Environmental Protection Plan (EPP). The purpose of the EPP is to present a comprehensive overview of known or potential environmental issues which the Contractor must address during construction. Issues of concern shall be defined within the EPP as outlined in this section. The Contractor shall address each topic at a level of detail commensurate with the environmental issue and required construction task(s). Topics or issues which are not identified in this section, but which the Contractor considers necessary, shall be identified and discussed after those items formally identified in this section. Prior to submittal of the EPP, the Contractor shall meet with the USACE COR for the purpose of discussing the implementation of the initial EPP; possible subsequent additions and revisions to the plan including any reporting requirements; and methods for administration of the Contractor's Environmental Plans. The EPP shall be current and maintained on-site by the Contractor. The contractor is responsible for reporting any hazardous material and petroleum products brought on to the FWDA. The FWDA point of contract for this reporting is Mr. Richard Cruz,

The EPP shall include:

a. Name(s) of person(s) within the Contractor's organization who is (are) responsible for ensuring adherence to the Environmental Protection Plan.

b. Name(s) and qualifications of person(s) responsible for training the Contractor's environmental protection personnel.

c. A biological resources plan that defines procedures for identifying and protecting biological resources known to be on the project site: and/or identifies procedures to be followed if biological resources not previously known to be onsite or in the area are discovered during construction. The plan shall include methods to ensure the protection of known or discovered resources and shall identify lines of communication between Contractor personnel and the Contracting Officer.

d. Drawings showing locations of material storage areas, borrow areas (if onsite), and stockpiles of excess or spoil materials including methods to control runoff and to contain materials on the site.

e. A Spill Prevention, Control, and Countermeasure (SPCC) plan (40 CFR Part 112) shall include the procedures, instructions, and reports to be used in the event of an unforeseen spill of a substance regulated by 40 CFR 68, 40 CFR 302, 40 CFR 355, and/or regulated under State or Local laws and regulations. The Spill Control Plan supplements the requirements of EM 385-1-1. This plan shall include the follow as applicable:

   i. PE certification of Plan (112.3(d)–Facility with 10,000 gallons or less can self-certify Plan (112.6)
   ii. Contractor management approval of Plan (112.7)
   iii. List all containers including oil type and volume (112.7(a)(3)
   iv. Site diagram of all storage and use areas (112.7(a)(3)
   v. Analysis of spill volumes, rates, pathways/directions (112.7(b)
   vi. Identify secondary containment structures for tanks (112.8(c)(2) and all pertinent features
   vii. Identify containment methods for: tanker truck loading/unloading areas, piping, & oil filled equipment (112.7(c) & 112.8(b)(3)
      - if utilized, discuss monitoring method for oil filled operational equip(112.7(k)
   viii. Identify inspection methods, frequency, and procedures (112.7(e),112.8(c)(6)/(d)4)
   ix. Identify training (112.7(f) requirements for all management and on-site staff
   x. Identify security (112.7(g) of all materials on-site
   xi. Identify overfill safeguards on tanks (112.8(c)(8), including notification procedures
   xii. Identify procedures for the drainage of rainwater from containment structures

7.5.2 Waste Management Plan and Hazardous Materials Contingency Plan Waste Management Plan (Separate Document):

7.5.2.1 Waste Management Plan - The contractor shall develop and implement a Waste Management Plan/Program (WMP). Take a pro-active, responsible role in the management of waste and require all subcontractors, vendors, and suppliers to participate in the effort. The Contract shall identify an On-Site Manager who shall be responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the project. Waste includes products of excavated soils, IDW, packaging materials, and other waste generated by the Contractor or its subcontractors. The WMP shall include the following information:

a. Name of individuals on the Contractor's staff responsible for waste prevention and management.

b. Actions that will be taken to reduce solid waste generation, including coordination with subcontractors to ensure awareness and participation.

c. Description of the regular meetings to be held to address waste management.

d. Characterization, including estimated types and quantities, of the waste to be generated.

e. Name of landfill(s) to be used and acceptance letter from the landfill that project wastes will be accepted.

f. Description of the means of transportation of the waste materials, including excavated soils, IDW, and general solid waste.

7.5.2.2 Hazardous Waste Contingency Plan – The Contract shall prepare a Hazardous Waste Contingency Plan (HWCP). The purpose of this document is to provide the basic procedures to use in the event of fires, explosions, or any unplanned sudden or non-sudden release of chemicals or hazardous waste or their constituents to air, soil or surface water. This HWCP shall be used by the Primary or Secondary Emergency Coordinator for emergencies involving chemical spills, releases to the environment, and fires or explosions involving chemical substances.

The following proactive measure will be taken in order to prevent a chemical emergency or to minimize impact:

a. Personnel shall be educated and trained in the identification, handling, and storage of chemical products, including basic hazard communication and proper disposal of chemical wastes.

The following measures are taken to detect a chemical emergency before release to the environment:

b. Detailed inspections of HWAAs shall be conducted on a weekly basis and/or after a chemical emergency (spills, fires, etc..) in the Accumulation area.

c. Potential spill areas shall be inspected on a weekly basis.

The Contractor shall conduct all operations under this contract in compliance with all federal, state, and local regulations pertaining to large quantity generator (LQG) generators of hazardous waste. FWDA has historically been an episodic LQG.

7.5.3 Storm Water Pollution Prevention Plan (SWPPP), The Contractor shall prepare and implement a SWPPP (separate document) during implementation of the Work Plan. The Contractor shall file the Notice of Intent and Notice of Termination with EPA as required by the NPDES program. The SWPPP shall be prepared in accordance with NPDES General Permit for Storm water Discharges From Construction Activities (latest version in effect) with emphasis on NM Section is 9.4.1 and the NM Permit is NMR 120000. The SWPPP shall be submitted in a separate document to the COR for approval. The EPA Region VI is the regulatory agency for the SWPPP on the project.

7.6 CLIN 006 (Task 6): Execute the NMED Approved SWMU 1 Interim Measures Work Plan

The contractor shall implement the SWMU 1 IMWP prepared under this contract once it is approved by NMED. All work shall be performed IAW the IMWP, Permit, and all local, state, and federal laws and regulations, and this PWS.

Water is not available on FWDA for dust control, backfill, or other field efforts. ~~Water for this project shall ***not*** be "grey water" or any type of wastewater that has been treated. All water used to suppress dust, compaction, etc, shall be certified as potable water. This certification shall be provided to the USACE COR at least 14 working days before the water is brought on to the site.~~ Water used for dust control and backfill compaction shall be obtained from a source other than on-site. There are **NO** sources of water that can be used for construction on FWDA. Water can be potable water or treated effluent. The contractor shall document the source of water and present this documentation to the USACE COR at least 14 working days before the water is brought on-site.
This documentation shall also be presented in an appendix of the removal report.

Soil excavated, transported, and disposed off-site, shall be characterized in IAW landfill requirements, and local, state and federal laws and regulations, and this PWS. For estimating purposes, the Contractor can assume that for every 1000 cubic yards of excavated soil, one soil waste characterization sample will be required. The Contractor shall be responsible for determining waste characteristics, proper handling, transportation, and disposal. For estimating purposing, the Contractor shall assume that all waste will be non-hazardous waste.

The contractor shall manage all waste and prepare all associated documentation. Army personnel with Department of Transportation (DOT) manifest training will sign all waste shipping papers as the generator. Contractor daily attendance sign in sheets, visitor logs, and copies of any waste manifests/scale tickets/etc shall be provided to administrative records keeper and USACE at close of business or next day, as applicable. All DOT manifesting documents shall be submitted in draft 5 days prior to transport for Government approval. The Contractor's

site manager shall be on-site when the waste is ready for shipment and manifest documents are signed by the Government. The Contractor is responsible for ensuring that the transporter has all appropriate documentation and vehicle placards.

One Quality Control (QC) sample shall be taken for every ten field samples. One Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample shall be taken for every 20 field samples and shall be noted on the chain of custody.

Sampling parameters and methods

Parameter	EPA Method (most current method)
Explosives	SW846 8330
Perchlorate	SW846 6850
TAL Metals/Mercury	SW846 6010C or 6020B and 7470
SVOCs	SW846 8270D
Nitrate/Nitrite (as N)	300.0 or NMED approved equivalent method

The contractor shall backfill the excavation site per section 7.4 of the PWS. Excavation and shall be estimated by truckloads. However, the Contractor shall verify quantities of excavated and backfill quantities by survey (Refer to section 7.4, Note 1). The contractor shall survey (topographic) the site before excavation begins and after all landfill material and contaminated soil is removed. If Option two (2) through six (6), or any combination thereof, are executed, quantities shall be verified by a survey. The Contractor shall compute volume calculations and provide them to the COR for confirmation of quantities. The contractor shall report the quantity of soil excavated or backfill in weekly reports, using estimated quantities based on truckload – if a survey is performed to verify a quantity, the weekly report shall state that the "quantity" was verified by survey.

The contractor shall make a final site inspection prior to seeding and remove any remaining debris larger than 2" long or in diameter.

7.7 CLIN 007 (TASK 7): SWMU 1 including TNT Beds Removal Report

The objective of this Task is to obtain an NMED approved completion report supporting No Further Action (NFA) relating to soil within the boundary of SWMU 1.

The contractor shall prepare a corrective measures completion report IAW Section VII.J.3.c of the Permit and the NMED approved IMWP. The report shall be submitted to the Army Team as draft and final to be submitted to Army and stakeholder, including NMED. The draft will be reviewed and accepted by the Army prior to proceeding with the final version. The Contractor shall prepare written responses to address comments received from various Army reviewers, make changes to the document, and submit the corrected version of the report. When the draft is

revised and accepted, the Contractor shall draft the final report for submission to NMED and stakeholders. The final version requires NMED approval.

The Report shall include photographs, maps depicting relevant features, summary tables of the results of field measurements, excavated and backfill quantities, and all chemical analyses (confirmation and waste characterization). The Contractor shall use the 2009 Color infrared layer for all base maps which will be GFI. The report shall have the same format as previously MNED acceptable document, and shall comply with the FWDA Submittal Guidance Document (GFI provided). Review and comment process and distribution shall be the same process as the IMWP. The Contractor shall draw conclusions from the data, evaluate this interim action, and provide a summary of this interim action. If follow-on work is required, the contractor shall provide recommendations.

The Army draft shall be submitted to the Army team within 60 days of completing fieldwork. The final version shall be submitted to NMED and stakeholder within 45 days from receipt of Army team comments. Stakeholder, other than NMED, will be given 90 days to review the final report

A list of document recipients for the Army team and stakeholder is provided in the GFI

7.8 CLIN 008 (Task 8): Permittee Initiated Interim Measure Parcel 24 –Igloo Block A

The Contractor shall prepare a letter notification for a Permittee-initiated interim measure for the removal of soil below igloo drain outfalls in igloo block A in Parcel 24 IAW the Parcel 24 Release Assessment Report (RAR) dated January 2014, Permit section VII.G.3, and using the "go-by" example provided. See contractor supplied information under "Parcel 4A Interim Measure" and Parcel 24 RAR Report. Follow the September 10, 2013 letter in Appendix A of the Parcel 4A interim measures report for C-Block. The notice shall outline the approach to include excavation, confirmation sampling to meet current SSLs and disposition of the soil and pipes.

The Contractor shall first submit the letter notification to the Army team in draft. Comment submitted to the Contractor from various Army review shall be addressed and changes incorporated into the next version. Once the Army approves of the comment resolution, the Contractor shall submit the Final letter notification to NMED and stakeholders. Stakeholders, other than NMED, will be given 60 days to review the letter notification.

Upon approval by NMED of the interim measures, the contractor shall implement the plan described in the letter notice and prepare a brief report similar to examples. Include all igloos of the igloo block identified as exceeding SSLs in the RAR. Each igloo has two drain outfalls, one on each wing wall. The contractor shall remove approximately ¼ cubic yard of soil beneath each outfall where the soil exceeds the Permit Cleanup Levels. For bidding purposes, the contractor shall assume 84 removal sites where the SSLs are exceeded per recommendations in the RAR. Constituents that exceeded SSLs are lead, mercury, and arsenic. For estimating purposes, the contractor shall assume that one metal test is required per sample with the few exceptions noted in the Parcel 24 report. Testing is required to verify that these constituents are below the SSL.

The contractor shall remove and dispose both drain pipes from every igloo in the igloo block A regardless whether they are sampled or not, IAW all local, state, and federal regulations. For bidding purposes assume 154 drain pipes to be removed, two each from 77 igloos. Holes left behind in the wing wall by the pipe removal shall be plugged with concrete approximately 6" into the pipes. Pipes have lead-based paint. A Lead Management plan shall be included in the safety plans (refer to Task 3).

Confirmation samples shall be collected after soils have been excavated. The Contractor shall analyze for constituents that failed the SSL criteria (i.e. lead, arsenic, explosives, etc…) One sample per location shall be sufficient to verify that remaining soil is clean. Once sample results are received, the contractor shall coordinate test results immediately with the USACE COR. The Army will coordinate the results with NMED within 30 days to obtain their concurrence that cleanup levels have been met. After concurrence has been obtained from NMED, the Contractor shall backfill the excavated area (if holes are greater than 2' deep) to an elevation equal to the surrounding land surface.

After all Parcel 24 – Igloo Block A interim measure work has been performed, the contractor shall provide a brief report summarizing all activities. The Contractor can use the Parcel 4A Interim Measure Report as an example. This report shall follow the same review requirements noted in Task 6 (the SWMU 1 IM Work Plan, and Task 7, the SWMU I IM Report).

7.9 CLIN009 (Task 9): Well Plugging and Abandonment

~~**7.9.1 Well 340:** The Contractor shall plug well 340 and demolish the well house. The well house shall be completely demolished, including the slab floor. All debris associated with the well house shall be disposed of IAW landfill requirements, and local, state, and federal laws and regulations. Once the well house is demolished, Well 340 shall be abandoned and plugged in accordance with New Mexico Office of the State Engineer (NMOSE) regulations. The well is in Parcel 19, at an elevation of approximately 6800 ft, at coordinates 35.494836°N; 108.575180°W.~~

~~Well 340 was drilled in the summer of 1968. A 7 7/8 pilot hole was initially drilled to a depth of about 1,930 feet below the ground surface. The well was reamed to 20-inch diameter from land surface to 150 feet and a 16-inch outer diameter (OD) casing was set and cemented. From 150 to 710 feet, the borehole was reamed to 16 inches to accept 12 3/4-inch casing. From 710 to 980 feet, the borehole was reamed to 11 inches. The borehole caved at about 635 feet so the 12 3/4-inch casing was run from the surface to 615 feet and then a 10-inch casing from 615 feet to 710 feet was installed. The 12 3/4 inch and 10-inch strings of casing were cemented in place from bottom to up. Slotted 8 5/8 inch casing/screen was set through the producing section from 710 to 980 feet and sealed to the 10-inch pipe with a lead swedge nipple.~~

~~An exact description of the well can be located at: http://pubs.usgs.gov/unnumbered/70047460/report.pdf. This is an open-file report.~~

~~The Contractor shall submit to the USACE COR a draft plugging and abandonment plan written in accordance with the New Mexico Administrative Codes (NMAC), specifically 19.27.4~~

~~NMAC. Plugging of an artesian well shall require submittal of a plan of operations in accordance with Subsection A of 19.27.4.31 NMAC. Before commencement of plugging and abandoning operation, a well abandonment plan shall be approved by the USACE COR. Once approved by USACE, the well abandonment plan shall be submitted to the NMOSE for review and approval. Once approved by the OSE, the contractor shall coordinate with USACE and the NMOSE for execution. A USACE and NMOSE representative shall be on-site during the execution of abandonment operations. The contractor shall have the APPROVED Well Abandonment Plan on its possession while executing this task. The well shall be plugged and abandoned in accordance with the approved plan and by a New Mexico licensed driller, in accordance with 19.27.4 NMAC.~~

~~Additionally, the Contractor shall ensure that the annular space is sealed from the surface to at least 20 feet below grade. If there is no seal, the Contractor shall seal the annular space in accordance with 19.27.4 NMAC. After the abandonment/plugging has passed inspection by USACE and the NMOSE, the top of the casing shall be cut off below the frost line (after removal of the well house slab floor) and backfilled with uncontaminated soil. The location shall be marked by GPS to an accuracy of 0.1 feet. After completion, the contractor shall draft a well abandonment report in accordance with 19.27.4.31 NMAC. The plan shall be submitted to the USACE COR for review. Once accepted by USACE, the contractor shall submit the report to the NMOSE in accordance 19.27.4 NMAC. Once approved by the NMOSE, the contractor shall distribute the reports and the approved plans to all stakeholders. No additional reviews are required.~~

~~The list of stakeholders is included in the GFI.~~

~~***Other considerations: The well is a flowing artesian well presumably producing from the Glorieta Sandstone. It does not have a welded cap. Water freely flows from the casing onto the well house concrete slab floor and out of the well house. There is no information regarding the flow rate. There is no information regarding installed pumps, drop pipe, etc… There is no appearance from the surface that a pump and or pump/motor assembly is installed. There is no power to the well house, and there are no obvious electrical pump controls. The well appears to have been inactive for many years.***~~

7.9.2 Wingate 89,90, 91, and FW26: Wells Wingate 89, 90, and 91 shall be plugged and abandoned. These three wells are located in Parcel 10B and screened in the alluvium; they are water table wells (unconfined). Wingate 89 is approximately 100 feet deep, Wingate 90 is approximately 98 feet deep, and well 91 is approximately 112 feet deep. Wingate 90 has an 8-inch diameter steel casing, and both Wingate 89 and 91 have a 12-inch diameter steel casing. Each of these three wells have a well pad that is 2 ft by 2 ft by 6 inches thick, and each have four traffic bollards. Well pads shall be removed to inspect the annular seal. If there is no annular seal, the Contractor shall seal the well to 20 ft below ground surface IAW 19.27.4 NMAC. The casing shall be cut off approximately 18 inches bgs. Pads and bollards, and any other debris associated with the abandonment, shall be removed and disposed of off-Post IAW landfill rules, and local, state, and federal laws and regulations.

Note: There are no well construction diagrams or soil logs for Wingate 89, 90, and 91.

Additionally, a monitoring well, number FW26 shall be plugged and abandoned. It is located in Parcel 11. This well is approximately 31 feet deep, has a small concrete pad (assume a 2 ft by 2 ft by 6 inches thick). FW26 has a 4-inch diameter Polyvinyl Chloride (PVC) casing, with a 20 foot screen. The contractor shall assume that the annular space in this well is sealed. FW26 also has a protective outer casing. The purpose is to protect the PVC monitoring well casing, and to lock and secure the monitoring well. The outer protective casing is approximately 6-inches in diameter and approximately 5 feet long. Approximately 2.5 feet of the protective casing is set in concrete and/or below ground surface. Both the concrete pad and the protection casing shall be removed and disposed of off-Post, and IAW landfill rules, and local, state, and federal laws and regulations. The monitoring well PVC casing shall be cut off approximately 18-inches below ground surface.

A well abandonment plan shall be prepared and submitted to USACE and the NMOSE for review and approval in the same manner as shown in Section 7.8.1. However, these wells are not artesian. The NMOSE may not require a representative on-site to witness the plugging the these wells. The abandonment plan may include all four of these wells if allowed by the NMOSE. The abandonment plan shall be written IAW 19.27.4 NMAC, submitted the USACE COR for review and approval. Once approved by USACE, the contractor shall submit the plan to the NMOSE for review and approval. Once approved by the NMOSE, the contract shall execute the abandonment plan. The approved plan shall be on-site during the execution of this task, and this task shall be executed by a New Mexico licensed driller. Coordinates are:

Wingate 89: 35.526807°N; 108.593332°W
Wingate 90: 35.527921°N; 108.597738°W
Wingate 91: 35.528897°N; 108.600390°W
FW26: 35.515618°N; 108.592853°W

Upon completion, the Contractor shall submit the report to the USACE COR for review. Once accepted by the COR, the Contractor shall submit the report to the NMOSE. Once accepted by the NMOSE, the contractor shall distribute the reports and the approved plans to all stakeholders. No additional reviews are required.

The list of stakeholders is included in the GFI.

Note: All well locations shall be surveyed to 0.1 feet by a New Mexico licensed surveyor. Coordinates shall be provided in UTM and State Plane, in NAD 83 and NAVD 88. These coordinates shall be included in the OSE report(s). Each well having a steel casing shall have a permanent monument placed at its former location. The monument shall state the former well identification, the date it was plugged, and the monument shall be set in a concrete pedestal no higher than six (6) inches above than the surrounding ground level.

~~**7.10 CLIN 010 (Task 10): Suspected Well, Parcel 16:** An additional *suspected* well is located in the southwest corner of K Block in Parcel 16. However, there is no information regarding the construction of this suspected well. As part of the base contract, the contractor shall evaluate this suspected well. There is a casing about 2 feet above ground surface with a~~

~~concrete slab. The slab thickness is unknown, but for estimating purposes, the Contractor can assume that it is 6" thick. The pipe/casing is capped with a welded plate. The cap shall be removed to evaluate if this pipe is an actual well casing. The Contractor should cautiously remove the cap. If this is a well, and if the well is drilled into the regional aquifer, the Glorieta Sandstone, the well will be under pressure.~~

~~If this is a well, the Government shall execute Option No. 1. If this is not a well, the contractor shall remove the pipe, or cut the pipe below ground surface, and remove the concrete slab surrounding the pipe. The pipe is approximately 12-inches in diameter. The thickness of the pipe is unknown. The coordinates of the suspected well are 35.499456°N; 108.575562°W~~

~~The wells in Parcels 16 and 19 have asbestos (transite siding). The contractor shall remove and properly transport and dispose of asbestos IAW all local, state, and federal laws and regulations. Asbestos is scattered about the ground surface. The pump house of well 340 may contain asbestos in the window caulking and roof material. The contractor shall sample material potentially containing asbestos and dispose of this material. For estimating purposes, the contractor shall assume that the caulking and roof material have asbestos. All visible asbestos around the potential well in Parcel 16 shall be removed and transported off-Post for disposal IAW all local, state, and federal regulations. Handling asbestos shall be addressed in Safety Plans required for Task 2.~~

7.11 CLIN 011 (Task 11): Meetings

The Contractor shall attend a total of three, one day meetings, at Fort Wingate in Gallup, New Mexico throughout the period of performance of the task order to meet with the USACE COR or his designee and with the Fort Wingate Stakeholder's to brief all parties on the project status. Allow for a day of travel/preparation before and after the meetings. The Contractor shall be prepared to discuss any aspects of the project during the meeting. Just the PM will come to meetings.

OPTIONAL TASKS

Optional tasks may be funded and exercised at any time, in any combination, at the discretion of the government. The Contractor shall not initiate work on any exercised Option until directed to do so by the Contracting Officer or the Contracting Officer's Representative. Funding for Optional Tasks that are awarded, but not performed, shall be de-obligated from the task order.

Optional Tasks, if exercised, will not affect the task order period of performance end date of 3years from the date of task order award.

~~7.12 CLIN 012 (Task 12) [OPTION 1]: Abandon Well Located in Southwest of K Block~~

~~The Contractor shall abandon this well IAW applicable New Mexico OSE regulation. This well shall be abandoned and plugged in accordance with New Mexico OSE regulations. For~~

~~estimating purposes, the Contract can assume that the well is approximately 1000 ft in depth, with a casing diameter of 10 inches. The contract shall also assume that this well is artesian.~~

~~The Contractor shall submit to USACE a plugging and abandonment plan written in accordance with the New Mexico Administrative Codes, specifically 19.27.4 NMAC. Plugging of an artesian well shall require submittal of a plan of operations in accordance with Subsection A of 19.27.4.31 NMAC. Before commencement of plugging and abandoning operation, a well abandonment plan shall be approved by the USACE COR. Once approved by USACE, the well abandonment plan shall be submitted to the OSE for review and approval. Once approved, the contractor shall coordinate with USACE and the OSE for execution. A USACE and OSE representative shall be on site during the execution of abandonment operations. The contractor shall have the APPROVED Well Abandonment Plan on its possession while executing this task. The well shall be plugged and abandoned in accordance with the approved plan and by a New Mexico licensed driller, in accordance with 19.27.4 NMAC. Additionally, the Contractor shall ensure that the annular space is sealed from the surface to at least 20 feet below grade. If there is no seal, the Contractor shall seal the annular space in accordance with 19.27.4 NMAC.~~

~~After the abandonment/plugging has passed inspection by USACE and the OSE, the top of the casing shall be cut of at least 18 inches below grade (after removal of the concrete slab) and backfilled with uncontaminated soil. The location shall be marked by GPS to an accuracy of 0.1 feet. After completion, the contractor shall draft a well abandonment report in accordance with 19.27.31 NMAC. The plan shall be submitted to the USACE COR for review. Once approved by USACE, the contractor shall submit the report to the OSE in accordance 19.27.4 NMAC. The contractor shall be paid for this task once the report is approved and/or accepted by the OSE.~~

~~The site have asbestos scattered on the ground surface around the concrete slab. The contractor shall remove and properly transport and dispose all asbestos IAW all local, state, and federal laws and regulations.~~

~~Submittal requirements are the same as shown in 7.9.2~~

~~***Other considerations: The exact condition of the well in not known. If the condition of the well is significantly different from the assumptions noted above, this Task may require modification to account for a change in conditions, materials, and the level of effort, required to abandon the well.***~~

7.13 CLIN 013 (Task 13) [OPTION 2]: Additional Soil Removal for 2,000 Cubic Yards

For this option, the contractor shall include in the estimated cost, surveys, soil sampling (confirmatory and waste characterizing), transporting borrow material for fill, transportation for disposal, disposal costs, and establishment of vegetative cover for an additional 2,000 CY to be excavated out of the TNT leaching beds to meet the objectives of PWS Section 7.4 – SWMU-1 Interim Measures Work Plan (CLIN 004).

7.14 CLIN 014 (Task 14) [OPTION 3]: Additional Soil Removal for 5,000 Cubic Yards

For this option, the contractor shall include in the estimated cost, surveys, soil sampling (confirmatory and waste characterizing), transporting borrow material for fill, transportation for disposal, disposal costs, and establishment of vegetative cover for an additional 5,000 CY to be excavated out of the TNT leaching beds to meet the objectives of PWS Section 7.4 – SWMU-1 Interim Measures Work Plan (CLIN 004).

7.15 CLIN 015 (Task 15) [OPTION 4]: Additional Soil Removal for 7,500 Cubic Yards

For the option, the contractor shall include in the estimated cost, surveys, soil sampling (confirmatory and waste characterizing), transporting borrow material for fill, transportation for disposal, disposal costs, and establishment of vegetative cover for an additional 7,500 CY to be excavated out of the TNT leaching beds to meet the objectives of PWS Section 7.4 – SWMU-1 Interim Measures Work Plan (CLIN 004).

7.16 CLIN 016 (Task 16) [OPTION 5]: Additional Soil Removal for 10,000 Cubic Yards

For this option, the contractor shall include in the estimated cost, surveys, soil sampling (confirmatory and waste characterizing), transporting borrow material for fill, transportation for disposal, disposal costs, and establishment of vegetative cover for an additional 10,000 CY to be excavated out of the TNT leaching beds to meet the objectives of PWS Section 7.4 – SWMU-1 Interim Measures Work Plan (CLIN 004).

7.17 CLIN 017 (Task 17) [OPTION 6]: Additional Soil Removal (15,000 Cubic Yards)

For this option, the contractor shall include in the estimated cost, surveys, soil sampling (confirmatory and waste characterizing), transporting borrow material for fill, transportation for disposal, disposal costs, and establishment of vegetative cover for an additional 15,000 CY to be excavated out of the TNT leaching beds to meet the objectives of PWS Section 7.4 – SWMU-1 Interim Measures Work Plan (CLIN 004).

7.18 CLIN 18 (Task 18) [OPTION 7] *Amend 01*

In the event that monitoring well TMW32 requires abandonment due to the excavation of the southern (triangular shaped) leaching bed, the contract shall abandon this well IAW NMOSE regulation. TMW32 is a 2.5-inch diameter PVC monitoring well, set in sandstone. It is an artesian well. It is approximately 137 feet deep, measured from the ground surface. It has a 2x2-foot concrete slab, and 6 inches thick. The protective casing is a 10” diameter steel pipe set in the concrete slab. The top of well casing is approximately 1.5 feet above the ground surface. The top of the protective casing is approximately 3 feet above the ground surface. The bottom of the protective casing is approximately 3 feet below ground surface. There are no traffic bollards. The concrete pad and protective casing shall be removed. The casing shall be plugged IAW NMOSE regulation. A draft plan and report shall be submitted to the USACE COR before submission to the NMOSE. The approved plan shall be on-site during the execution of fieldwork. The final approved plan and report shall be submitted to NMED and Stakeholders as an appendix of the SWMU1 corrective measure report.

7.19 CLIN 19 (Task 19) [OPTION 8] *Amend 01*

In the event that monitoring well TMW41 requires abandonment due to the excavation of the northern (diamond shaped) leaching bed, the contract shall abandon this well IAW NMOSE regulation. TMW41 is a 2.5-inch diameter PVC monitoring well, set in alluvium. It is **not** an artesian well. It is approximately 66 feet deep, measured from the ground surface. It has a 2x2-foot concrete slab, and 6 inches thick. The protective casing is a 10" diameter steel pipe set in the concrete slab. The top of well casing is approximately 1.7 feet above the ground surface. The top of the protective casing is approximately 3 feet above the ground surface. The bottom of the protective casing is approximately 3 feet below ground surface. There are no traffic bollards. The concrete pad and protective casing shall be removed. The casing shall be plugged IAW NMOSE regulation. A draft plan and report shall be submitted to the USACE COR before submission to the NMOSE for review. The approved plan shall be on-site during the execution of fieldwork. The final approved plan and report shall be submitted to NMED and Stakeholders as an appendix of the SWMU1 corrective measure report.

8.0 ADDITIONAL REQUIREMENTS

8.1 Resources

8.1.1 Army Furnished Resources

The Army, through the COR, shall make available the following resources to the Contractor: Records, reports, data, analyses, and information, in their current format on a Contractor supplied 1 TB external drive to facilitate development of an accurate assessment of current, former, and historical site activities and operations; waste generation and contaminant characteristics; parameters of interest; and site environmental conditions.

Information pertaining to the site, regulatory status, etc. supplied in the PWS and as Government Furnished Information (GFI) is intended to assist the offerors in developing proposals. The GFI will be furnished to the Contractor on a Contractor supplied external hard drive. However, the proposing contractors bear the full burden to perform whatever due diligence they deem prudent to examine records, documents, and etc. necessary to develop a proposal including independent verification of the information in the PWS and in any provided GFI. A reasonable effort (at the time of the Request for Proposal) has been made to supply all relevant information for the use of the offerors.

8.1.2 Contractor Furnished Resources

The Contractor must possess all the required expertise, knowledge, equipment and tools required to meet or exceed the Army's objectives identified in this PWS in accordance with established industry standards.

In addition, the Contractor shall be responsible for the following:

- The provision and cost of the utilities associated with implementation of field activities, including installation of individual meters for necessary utilities.
- All waste generated under this contract shall be the responsibility of the Contractor.
- Any other necessary resources needed to achieve the performance objectives.

8.2 Certification and Approval of Project Milestones and Deliverables

The COR will be responsible for contract management, inspection, oversight, review, and approval activities. Certification and approval of project milestones by the COR is necessary before distribution of payments. Final acceptance of milestone completion shall include appropriate acceptance of regulatory approval of report and work plans. Acceptance of well abandonments shall be the approval by the New Mexico Office of the State Engineer.

Certification and approval of project milestones by the Army is contingent upon the Contractor performing in accordance with the terms and conditions of the contract, this PWS, and all amendments.

8.3 Government Rights

The Army has unlimited rights to all documents/material produced under this contract. All documents and materials, to include the source codes of any software, produced under this contract shall be Army owned and are the property of the Army with all rights and privileges of ownership/copyright belonging exclusively to the Army. These documents and materials cannot be used or sold by the Contractor without written permission from the KO. All materials supplied to the Army shall be the sole property of the Army and cannot be used for any other purpose. This right does not abrogate any other Army rights under the applicable Data Rights clause(s).

8.4 Stop Work

The Contractor, authorized Installation personnel, authorized site personnel, and the COR have the responsibility to stop work immediately if the work is considered to be a serious threat to the safety or health of workers, other personnel, or to the environment. Authorized Installation personnel include the FWDA caretakers or manger, USACE QAR, USACE COR, and command personnel with responsibility for overall operations. At FWDA command personnel is BRAC. When work is stopped due to a hazard/threat to worker safety, health, or the environment, the situation and resolution must be documented and submitted to the KO. Work must be stopped whenever an explosive hazard is identified.

8.5 Inspections

The USACE Subject Matter Experts (SME) will independently review Contractor work to ensure compliance with all applicable requirements. Any service or submittal performed that does not meet contract requirements shall be corrected or re-performed by the Contractor and at no additional cost to the Government. Corrective action must be accepted by the COR consistent with the basic contract. If the Contractor performs any task unsatisfactorily and all defects are not corrected, the Government reserves the right to terminate the contract for default. In

addition, the Government reserves its rights under the FAR clause 52.246-4, "Inspection of Services – Fixed Price", for further remedies concerning a Contractor's failure to perform in conformance with contract requirements.

8.6 Organizational Conflicts of Interest

8.6.1 Disclosure. The Contractor shall provide a disclosure statement with its proposal, which concisely describes all relevant facts concerning any past or present organizational conflicts of interest relating to the work in this PWS. In the same statement, the Contractor shall provide the information required in the following paragraph to assure the Government that the conflicts of interest have been mitigated and/or neutralized to the maximum extent possible. If a conflict of interest is discovered after contract award, the KO will make a decision whether to terminate or rescind the PWS and/or contract at that time.

8.6.2 Potential Conflicts of Interest: This RFP is only open to firms under the USACE Omaha District Small Business MEGA MATOC. In order to avoid any organizational conflicts of interest, or even the appearance of any organizational conflicts of interest, any contractor performing environmental services work at the installation under this contract will need to avoid, neutralize and/or mitigate - prior to contract award - significant potential conflicts of interest that may prejudice effective competition. The KO has determined that at a minimum contractors currently performing work on this installation must ensure that all data pertaining to contamination at the sites compiled by or in the possession of such contractors shall be made available to all potential contractors in a timely fashion to the maximum extent possible by providing such data in to a data repository.

8.7 Access and Security

All contractors and all associated sub-contractors employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative). Contractor workforce must comply with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes. For additional information related to security, refer to ATTACHMENT D – Anti-Terrorism/Operational Security.

Hours of Operation: Typical hours are 6:30am – 5:00pm Monday – Friday. The FWDA gate will be locked and opened only by Army personnel. The Contractor may coordinate with the COR if alternative hours are desired. Alternate hours may be granted at the Army's discretion. The Contractor shall not be on Depot or travel to non-project areas without Army personnel present.

8.8 Cultural Resources:

The Army, Navajo Nation, Pueblo of Zuni and the New Mexico State Historic Preservation Office (SHPO) have entered into a "Programmatic Agreement" (PA) which addresses FWDA's

Section 106 Cultural requirements. The Army has coordinated with the two Tribes and SHPO on all previous RFI sampling in the parcels involved on this contract. No cultural resource sites have been encountered thus far and the Army does not anticipate encountering cultural resources on this project. Prior to initiating soil removal the Army will coordinate with the Tribes and SHPO as done in the past. See cultural files in bidder's information. Avoidance of cultural sites is the first choice for all Permit actions. NMED understands the Tribal concerns for cultural sites and will work with the Army if needed. The Contractor shall not disturb any suspected cultural resource, artifact, pottery shard, or ant hill. If cultural resources are encountered during the project, the Contractor shall immediately notify their USACE representative for further instruction. USACE will notify the Army, and the Army will immediately notify the Tribal cultural points of contact for consultation per section 1.8 of the PA.

8.9 General Conditions: This information shall be included in work plans, as applicable, under this contract. The Contractor shall excavate, process, sample, characterize, remove, transport, and dispose of all soil with contaminant concentrations above the Permit Cleanup Levels, and plug igloo drain pipes in accordance with the New Mexico Environment Department (NMED) approved work plan and all local, state, and federal regulations. All asbestos removed from the ground shall be disposed of IAW applicable, local, state, and federal laws and regulation. The Contractor should use the Government furnished information as applicable in preparing their bid. The Contractor shall follow section 5 of the latest version of NMED's *Risk Assessment Guidance for Investigations and Remediation* for determining if cleanup levels are exceeded. Cumulative risk shall be used in determining whether cleanup levels are exceeded. The Army Depot Manager will sign all waste shipping documentation as the generator.

8.9.1 Borrow: The Contractor shall identify an on-site borrow source, or other source(s), in the Interim Measures (IM) work plan. However, there is a borrow source on the Depot which is located within the boundaries of FWDA. The borrow source located on FWDA is of sufficient quantity to backfill area excavated during the execution of this PWS. The Contractor shall identify the borrow source(s) in the IMWPs. All SWMU 1 excavation sites, when backfilled, shall be graded to drain, and backfilled to at least one foot above existing grade to account for future settlement. The backfill shall be compacted sufficiently to minimize settlement and graded to allow for drainage. After the site(s) has been backfilled and graded to drain, the Contractor shall re-seed ***ALL*** disturbed areas (including staging areas and haul routes) with native vegetation seed mix. The Contractor shall consult with a local nursery for native vegetation types. A simplified re-seeding plan shall be submitted to the USACE Contracting Officer's Representative (COR) for acceptance and approval.

8.9.2 Investigative Derived Waste (IDW) Management: The Contractor shall develop Standard Operating Procedures (SOP) for the management of FWDA IDW. A description of IDW management shall be included as an appendix to the body of the work plan. The Contractor shall describe IDW Management and Disposal procedures only for the IDW that will be generated from the investigation activities described in the Work Plans. Excess soil from surface sample locations, small diameter hand augers, and geoprobe can be returned or re-deposited in the hole on site. Deep geoprobe holes, or hole that penetrate below the water table, shall be backfilled with bentonite chips or pellets to prevent caving. Cuttings from augers over 2" in diameter and deeper than 2-3' shall be disposed by the Contractor IAW all local, state, and federal regulations.

All waste containers shall be labeled IAW local, state, and federal regulations even non-hazardous containers pending analysis. Labels shall be legible, with names and phone numbers of the contractor's POC. Containers shall be covered and maintained while at FWDA. All containers and waste shall be removed and properly disposed prior to contractor's departure from FWDA. The Contractor is responsible for its own waste container (i.e. dumpster) for office type garbage. When the dumpster is full, the contractor shall dispose of garbage off-post IAW all local, state, and federal regulations. All waste operations must be coordinated with the on-site Army caretakers prior to the start of any field work.

8.9.3 Sample Identification**:** Sample ID's shall consist of a combination of Parcel, AOC, Site identifier, source of sample, increment number for sub sample identification, type of sample, and matrix and shall be limited to about 20 characters. Example sample ID's are provided in the GFI. The contractor shall coordinate with U.S. Army Corps of Engineers (USACE), Mr. Mike Scoville, on the sample ID's prior to completion of work plans.

8.9.4 Chemical Analyses: Chemical analytical tests shall conform to the most current version of the Department of Defense Quality Systems Manual (DoD QSM). All laboratory analysis/reports shall be organized and submitted as a full data package in Adobe Acrobat format to include original completed COC. Results shall be submitted as an electronic data deliverable (EDD) in the Staged Electronic Data Deliverable (SEDD) format. All electronic data submitted by the laboratory is required to be error-free using the latest version of the project specific automated data review (ADR) library (eQAPP) and the latest version of the ADR software. EDDs shall be verified to be in complete agreement with the hardcopy data reports. The contract laboratory, at their cost, will correct any data errors in EDD files identified by the contractor. Results shall be subjected to 100% SEDD stage 2b validation which includes results, method, and instrument quality control data. Submission of the validated electronic output in SEDD format is required along with the eQAPP. The Contractor shall prepare a Data Quality Summary Report (DQSR) that discusses the quality of the data, its usability, flagged data, rejected data, and an overall assessment of the laboratory's(s) performance. The DQSR shall be an appendix of this project's report and shall be of sufficient quality to meet the requirements of the Permit. Additionally, an appendix shall contain all laboratory data, specifically the Case Narratives, and the DQSR. All chemical data received from the laboratory shall be submitted to USACE, Fort Worth District for archiving. In addition, an excel file of the chemical data shall be provided by the contractor after data validation so the validation qualifiers are included along with the laboratory qualifiers. These data shall NOT be submitted on paper. All laboratory reports and data shall be submitted on disk (DVD or CD) and labeled such that the data are identifiable by the project.

8.9.5 Survey: Discrete sample locations and shall be surveyed to within 1 foot units. Drain outfalls at igloos do not require surveys. All survey coordinate data collected during the execution of the PWS shall be recorded in ***Universal Transverse Mercator (***UTM) and State Plane formats, using the World Geodetic System (WGS) 84 and (North American Vertical Datum) NAVD 88, in U.S feet for State Plane coordinates and meters for UTM coordinates.

8.9.6 Field Work Coordination: The Contractor shall inform the USACE COR of upcoming field work 45 days prior to field mobilization so the USACE can provide NMED their 30 day

notice per the permit. In addition, through coordination with the USACE COR, the Contractor shall notify (by email) the BRAC Environmental Coordinator (BEC) and FWDA staff, 10 working days prior to mobilization to the site. A conference call between the Contractor and USACE shall be held to review all the sample quantities, locations, and test methods in advance of the field effort. Additionally, the Contractor shall submit Weekly and Monthly Work Summary Reports.

The Contractor shall hold an on-site kick-off meeting with the Army representatives (USACE, BRAC, and FWDA) prior to starting any field operations. The purpose of the meeting will be to review all aspects of the upcoming work including lines of communication, access control, emergency response, health and safety procedures, traffic control, etc. All questions and concerns of the attendees will be satisfactorily addressed during or shortly following the meeting and at least 10 working days prior to mobilization. During the field effort at FWDA, the Contractor's field leader shall coordinate daily with the FWDA Caretakers and on-site USACE representative. Coordination shall include a brief discussion on daily work, health/safety issues, if any, work progress, potential problems, deliveries, and any other job issues.

The contractor shall comply with FWDA working hours. Typical hours are 6:30am – 5:00pm Monday - Friday. In most cases, the Contractor will be able to make prior arrangements with the on-site USACE representatives to work beyond normal working hours and on the weekends, if needed. The FWDA gate shall be locked and opened only by Army personnel. Alternate entry hours may be granted at the Army's discretion. The Contractor shall not be on the FWDA property or travel to non-project related areas without approval of FWDA Caretakers.

8.9.7 Utility Clearance: The Contractor shall be responsible for locating all utilities in the area. Local location services DO NOT serve FWDA. The contractor shall provide their own personnel and equipment to locate utilities. Active utilities shall be avoided. If abandoned utilities are excavated during this work they shall be disposed along with the soil IAW landfill requirements and applicable local, state, and federal laws and regulations. The contractor shall coordinate with the FWDA Manager (Mr. Richard Cruz) to locate utilities, and when excavating in the MDA leased property Mr. Martin Eastridge is the point of contact. Installation utility location services may be provided depending on the availability of installation personnel and equipment at the time of notice to proceed. Contractors shall consider both options when assuming for bid.

8.10 Equipment, Delivery, and Office:

USACE may issue a FWDA keys for work areas and a radio to the Contractor's field leader for use while on FWDA *to communicate with Army and USACE personnel*. The Contractor shall follow all established FWDA protocol and requirements for radio communication and keys. The Contractor shall supply their own internal communication. The Contractor shall return the radio and keys to FWDA or Corps staff before demobilizing. The Contractor shall repair/replace any Government Furnished Equipment (GFE) if it becomes damaged or broken while in the Contractor's possession.

8.11 Supplies and Equipment:

The Contractor shall supply their own office space, restrooms, tap water, drinking water, telephone, fax, trash receptacles, and internet communication on post.

The FedEx address to use for Contractor deliveries is:

Fort Wingate Army Depot - 7 miles East of Gallup, NM
Building 1
Fort Wingate, NM 87316
POC Phone Number

8.12 Travel

Travel to/from the FWDA and to other CONUS locations for such purposes as to attend meetings, briefings and/or presentations may be required incidental to this requirement, the costs for which shall be included in the total price for the PWS.

8.13 Performance and Payment Bonds

In accordance with the base contract, the Contractor:

☒ is NOT required to furnish Performance and Payment Bonds on this PWS.

☐ is required to furnish Performance and Payment Bonds on this PWS in accordance with the following:

9.0 MILESTONE PAYMENT REQUESTS

Invoices, with corresponding documentation attached, shall be submitted to the USACE Regional Planning and Environmental Center, Air Force – Interagency Environmental Section:

Tulsa District, Corps of Engineers
Attn: Ms. Hazel Davis, CESWF-PEC-EE
1645 S. 101st East Avenue
Tulsa, OK 74128-4609

Phone Number: 918.669.7454

10.0 GOVERNMENT POINTS OF CONTACT

Contracting Officer: Allen Bassett
Tulsa District Corps of Engineers
CESWT-CT-E

	1645 S 101 E Ave Tulsa, OK 74128-4609 918.669.7136 Allen.R.Bassett@usace.army.mil
Contracting Specialist:	Brian Hutchison Tulsa District Corps of Engineers CESWT-CT-E 1645 S 101 E Ave Tulsa, OK 74128-4609 918.669.7426 Brian.c.hutchison@usace.army.mil
Project Manager/Geologist:	David Henry Albuquerque District Corps of Engineers CESPA-ECEG 4101 Jefferson Plaza Albuquerue, NM 87109 505.342.3139 david.w.henry@usace.army.mil
USACE Program Manager:	Steve Smith Fort Worth District Corps of Engineers CESWF-PEC-EF 819 Taylor St Fort Worth, TX 76102 817.886.1879 steve.w.smith@usace.army.mil
FWDA BRAC Environment Coordinator:	Mark Patterson Base Realignment and Closure Office 8451 State Route 5 Bldg. 1038 Ravenna, OH 44266 mark.c.patterson.civ@mail.mil

All written correspondence pertaining to this Performance Work Statement should be addressed to the contract specialist unless otherwise directed by the KO. Written directions or clarifications to this Performance Work Statement may only be given to the contractor by the KO or contract specialist. A change in Government Points of Contact during the period of performance for task order execution does not constitute a change to the PWS.

Attachment A: Reference Documents

The Army believes that documentation provided with the solicitation represents the most recent and appropriate documentation available for the Installation and sites identified in this contract. However, if there is a conflict between this information and other site documentation (the existing reports), the Contractor is solely responsible for reviewing all available information and forming their independent, professional conclusions/interpretation of site conditions and requirements to meet the objectives of this contract. This information is not intended as a substitute for complete analysis of technical data available, nor is it intended to be a guide on how the Contractor should address achievement of the performance objectives/standards.

Specific documents may be made available following a request to the Contracting Officer, if the documentation can be distributed in a timely manner. Electronic format is not guaranteed.

Available Reference Documents.

RCRA Permit EPA ID No. NM 6213820974 w/attachments (Revised June 2011) **– Public Domain**
Programmatic Agreement **– GFI**
NMED Risk Assessment Guidance for Investigations and Remediation (latest version) **– Public Domain**
NMED Tech Background Document for Development of Soil Screening Levels (latest version) **– Public Domain**
Sample naming addendum.docx **– GFI**
Department of Defense Quality Systems Manual (QSM) **– GFI**
USACE Safety Manual, EM 385-1-1 **– GFI**
Final Investigation and Remediation Work Plan, Parcel 18, Eastern Landfill, Rev 1, dated February 6, 2013 **– GFI**
FWDA Document Format Guidance to include Section 508 compliance **– GFI**
NMED approved Parcel 21 RFI Work Plan and Report **– GFI**
Final Investigation and Remediation Work Plan, Parcel 18, Eastern Landfill, Rev 1, dated February 6, **2013 – GFI**
40 CFR Part 112 **– Public Domain**
40 CFR 68 **– Public Domain**
40 CFR 302 **– Public Domain**
40 CFR 355 **– Public Domain**
NPDES General Permit for Storm Water Discharges from Construction Activities (latest version) **– Public Domain**
Parcel 24 Release Assessment Report (RAR) dated January 2014 **– GFI**
Parcel 4A Interim Measures Report including Appendix A, Letter dated September 10, 2013 **– GFI**
New Mexico Administrative Codes (NMAC) 19.27.4 **– Public Domain**
Well 340 Well House Asbestos containing materials sampling results **– GFI**
Well 340 installation report http://pubs.usgs.gov/unnumbered/70047460/report.pdf – **Public Domain**
April 2014 TNT Leaching Beds chemical analysis **– GFI**
Final Investigation and Remediation Work Plan, Parcel 18, Eastern Landfill, Rev 1, dated February 6, 2013 **– GFI**
Document Distribution List **– GFI**
2009 Color infrared layer for all base map **– GFI**
Analytical Results from April 2014 TNT leaching beds geoprobe core samples - **GFI**

Attachment B: List of Acronyms

Accident Prevention Plan (APP)
Activity Hazard Analysis/analyses (AHA)
Area of Concern (AOC)
Base Realignment and Closure (BRAC)
BRAC Environmental Coordinator (BEC)
Contaminants of Concern (COC)
Contracting Officer (KO)
Contracting Officer's Representative COR
Cubic Yard (CY)
Albuquerque District (CESPA)
Tulsa District (CESWT
Fort Worth District (CESWF)
Data Quality Summary Report (DQSR)
Department of Defense Quality Systems Manual (QSM).
Department of Transportation (DOT)
Environmental Protection Plan (EPP)
Explosive Safety Submittal (ESS)
Fort Wingate Depot Activity (FWDA
Government Furnished Equipment (GFE)
Government Furnished Information (GFI)
Hazardous Waste Contingency Plan (HWCP)
Hazardous Waste Accumulation Area (HWAA)
In Accordance With (IAW)
Interim Measures (IM)
Interim Measures Work Plan (IMWP)
Investigative Derived Waste (IDW)
Large Quantity Generator (LQG)
Munitions and Explosives of Concern (MEC)
New Mexico (NM)
New Mexico Administrative Code (NMAC)
New Mexico Environment Department (NMED)
New Mexico Office of the State Engineer (NMOSE)
New Mexico State Historic Preservation Office (SHPO)
North American Vertical Datum (NAVD)
Office of the State Engineer (OSE)
Period of Performance (POP)
Performance Work Statement (PWS)
Polyvinyl Chloride (PVC)
Project Management Plan (PMP)
Point of Contact (POC)
Programmatic Agreement (PA)
Quality Assurance Representative (QAR)
Quality Assurance Surveillance Plan (QASP)
Quality Assurance (QA)
Quality Control (QC)
Universal Transverse Mercator (UTM)
USACE Project Manager (PM)
USACE Program Manager (PgM)
US Army Corps of Engineers (USACE)
US Environmental Protection Agency (EPA)
Unexploded Ordnance (UXO)
RCRA Facility Investigation (RFI)
Release Assessment Report (RAR)
Regional Screening Levels (RSL)
Resource Conservation and Recovery Act (RCRA)
Site Safety and Health Plan (SSHP)
Soil Screening Levels (SSL)
Solid Waste Management Unit (SWMU)
Spill Prevention, Control, and Countermeasure (SPCC)
Staged Electronic Data Delivery (SEDD)
Standard Operating Procedures (SOP)
Storm Water Pollution Prevention Plan (SWPPP)
Toxicity Characteristic Leaching Procedure (TCLP)
Waste Management Plan/Program (WMP).
World Geodetic System (WGS)
Work Plan (WP)

Attachment C: Quality Assurance and Surveillance Plan (QASP)

1.0 Overview

1.1 Introduction. This performance-based Quality Assurance Surveillance Plan (QASP) sets forth the procedures and guidance that the Contracting Officer's Representative (COR) will use in evaluating the technical performance of the Contractor in accordance with the terms and conditions of the performance work statement (PWS). A copy of the signed final QASP will be furnished to the Contractor so that the Contractor will be aware of the methods that the COR will use in evaluating performance for each task order under this contract.

1.2 Purpose. The QASP objective is to explain Government procedures to be used to verify that appropriate performance and quality assurance methods are used in the management of this performance-based contract. The purpose of the QASP is to assure that performance of specific activities and completion of milestones are accomplished in accordance with all requirements set forth in the PWS.

This QASP describes the mechanism for documenting noteworthy accomplishments or discrepancies for work performed by the Contractor. Information generated from COR's surveillance activities will directly feed into performance discussions with the Contractor. The intent is to ensure that the Contractor performs in accordance with performance metrics set forth in the PWS documents, the Army receives the quality of services called for in the contract, and the Army only pays for the acceptable level of services received.

The QASP details how and when the COR will monitor, evaluate, and document Contractor performance on the contract. The QASP is intended to accomplish the following:

1. Define the role and responsibilities of participating Army officials.
2. Define the key milestones/deliverables that will be assessed.
3. Define Exceptional, Very Good, Satisfactory, Marginal, and Unsatisfactory performance standards for key milestones/deliverables.
4. Describe the surveillance methodology that will be employed by the Army in assessing the Contractor's performance.
5. Describe the surveillance documentation process and provide copies of the form that the Army will use in evaluating the Contractor's performance.
6. Outline corrective action procedures.
7. Describe payment procedures.

2.0 Roles and Responsibilities of Army Officials

2.1 Contracting Officer. The Contracting Officer (KO) has overall responsibility for overseeing the Contractor's performance. The KO is responsible for the day-to-day monitoring of the Contractor's performance in the areas of contract compliance, and contract administration; reviewing the COR's assessment of the Contractor's performance; and resolving all differences between the COR's assessment and the Contractor's assessment of performance. It is the KO that assures the Contractor receives impartial, fair, and equitable treatment under the contract.

The KO is ultimately responsible for the final determination of the adequacy of the Contractor's performance. The KO is the only one authorized to obligate the Government on this contract.

2.2 Contracting Officer's Representative (COR). The COR is responsible for technical administration of the project and assures proper Army surveillance of the Contractor's performance. The COR is responsible for monitoring, assessing, recording, and reporting on the technical performance of the Contractor on a day-to-day basis.

2.3 Technical Expertise and Subject Matter Experts. The KO and COR may call upon the technical expertise of other Army officials and subject matter experts (SME) as required. These Army officials/SMEs may be called upon to review technical documents and products generated by the Contractor. Contracting Agency representatives will also conduct review of contract documentation such as invoices, monthly status reports, and work plans.

3.0 Key Milestones/Deliverables to be Assessed

3.1 At a minimum, the following milestones and associated deliverables will be evaluated in accordance with this QASP:

- Acceptance of the final PMP , and work planning documents
- Achievement of the specified elements in the PWS
- Correction of deficiencies noted in the review(s)
- Approved interim milestones identified in the final PMP

Additionally, the Army will evaluate performance on the key quality control activities and events specified by the Contractor through their Quality Assurance (QA) strategy.

3.2 Performance Standards for Key Milestones/Deliverables

Since price is fixed in the performance-based acquisitions utilized by the Army, the Contractor's performance will be evaluated by assessing the key milestones/deliverables described above according to five standards: quality, schedule, safety, management of key personnel and resources, and stakeholder concurrence. For each of these performance standards, the COR will assign one of five ratings of the Contractor's performance: exceptional, very good, satisfactory, marginal, or unsatisfactory as defined in Table 1 of the QASP. Note: These performance standards may be modified to meet the needs of the Army.

Table 1: QASP Performance Standards and Ratings Definitions

Performance Standard	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
Performance Category: Quality of Product or Service					
Quality	Draft deliverables are of excellent quality, approved for submittal to NMED, or with no substantive comments limited to grammar, spelling, or terminology. Army audit finds that the data collected and/or the work performed exceeds the requirement of the PWS. No deficiencies noted.	Draft deliverables are of high quality and comments are mostly minor. Final deliverables are approved for submission to NMED after one (1) round of Army comments on the Draft through acceptance of response to comments table and back check of Final report/IWMP against original comments. No further revisions are required. Army audit of work does not identify any deficiencies that compromise the quality of the data collected or work performed.	Draft deliverables are of acceptable quality with only a few numbers of comments identifying major weaknesses. Final deliverables are approved for submission to NMED after two (2) rounds of Army comments on Draft. No further revisions are required. Army audit of work identifies deficiencies that do not compromise the quality of the data collected or work performed, and can be corrected.	Draft deliverables are of poor quality with a significant number of comments identifying major weaknesses or deficiencies. Final deliverables are approved for submission to NMED after two (2) rounds of Army comments on Draft before being accepted. (e.g., changes are required to the Final document due to inadequate incorporation of comments). Army audit of work identifies deficiencies that compromise the quality of the data collected or work performed, but was corrected	Draft deliverables are of very poor quality and are rejected for re-submittal without comment. Final deliverables did not comply with contract requirements, or one or more document versions required more than three (3) rounds of Army comments before being approval of final for submission to NMED. Army audit of work identifies deficiencies that compromise the quality of the data collected or work performed, and cannot be corrected.
Performance Category: Schedule					
Schedule	Contractor Achieves milestone more than 90 days ahead of schedule (unless the COR waives this requirement), per criteria established in the PWS and the QASP.	Contractor Achieves milestone less than 90 days but more than 30 days ahead of schedule (unless the COR waives this requirement), per criteria established in the PWS and the QASP.	Contractor achieves milestone according to the schedule (unless the COR waives this requirement), per criteria established in the PWS and the QASP.	Contractor achieves milestone more than 30 days but less than 90 days behind schedule (unless the COR waives this requirement), per criteria established in the PWS and the QASP.	Contractor achieves milestone more than 90 days behind schedule (unless the COR waives this requirement), per criteria established in the PWS and the QASP.

Performance Standard	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
Performance Category: Safety					
Safety	No significant safety deficiencies are reported during QA inspection of fieldwork. No lost time accidents or injuries are recorded during the fieldwork.	No more than one (1) serious safety deficiencies are reported during QA inspection of fieldwork. If any serious safety deficiency is noted during the project, appropriate investigation, corrective action, implementation, and written verification of the corrective action are provided to the Army. No lost time accidents or injuries are recorded during the fieldwork.	No more than two (2) serious safety deficiencies are reported during QA inspection of fieldwork. If any serious safety deficiency is noted during the project, appropriate investigation, corrective action, implementation, and written verification of the corrective action are provided to the Army. No lost time accidents or injuries are recorded during the fieldwork.	No more than three (3) serious safety deficiencies are reported during QA inspection of fieldwork. If any serious safety deficiency is noted during the project, appropriate investigation, corrective action, implementation, and written verification of the corrective action are provided to the Army. No more than one lost time accident or injury is recorded during the fieldwork.	More than three (3) serious safety deficiencies are reported during QA inspection of field activities, or a serious safety deficiency is reported but not properly investigated and corrected, or two or more lost time accidents or injuries is recorded during the fieldwork.
Performance Category: Management of Key Personnel and Resources					
Management of Key Personnel and Resources	All personnel proposed by the contractor were assigned to the project. Some personnel were substituted by higher qualified individuals. Zero (0) instances of resource management issues creating a negative impact to the activity.	All personnel proposed by the contractor were assigned to the project. Some personnel were substituted by higher qualified individuals. No more than one (1) instance of resource management issues creating a negative impact to the activity.	All personnel proposed by the contractor were assigned to the project. Some personnel were substituted by equally qualified individuals. Informal poor performance feedback on conduct of personnel is provided by the COR but are corrected.	All personnel proposed by the contractor were assigned to the project. Some personnel were substituted by equally qualified individuals. Formal letter of poor performance feedback on conduct of personnel is provided by the COR but are corrected.	All personnel proposed by the contractor were assigned to the project. Some personnel were substituted by lesser qualified individuals. Written request from KO requesting removal of assigned personnel for poor performance or notification of poor performance is provided by the

Performance Standard	Exceptional	Very Good	Satisfactory	Marginal	Unsatisfactory
					COR and is not corrected.
			No more than two (2) instances of resource management issues creating a negative impact to the activity.	No more than three (3) instances of resource management issues creating a negative impact to the activity.	More than three (3) instances of resource management issues creating a negative impact to the activity.
Performance Category: Stakeholder Concurrence					
NMED Approval	Contractor obtains approval on deliverables to NMED Approval is obtained after the original submittal of Final documents	Contractor obtains approval on deliverables to NMED Approval is obtained with revisions required by regulator comments on the initial final document, and approval is achieved upon submittal of the revised final	Contractor obtains approval on deliverables to NMED. Approval is obtained with revisions required by regulator comments of a second submittal of the same document, and approval is achieved upon submittal of the second revised final	Contractor obtains approval on deliverables to NMED. This approval is obtained with a 3rd revision of a final document. Approval is achieved upon submittal of the third revised final	Contractor does not obtain approval from NMED on final documents.

3.3 If a milestone/deliverable as described in the QASP is rated as being of unsatisfactory quality at the time that the PMP deadline for the milestone/deliverable expires, the milestone/deliverable will automatically receive an unsatisfactory rating for timeliness. At no point will a milestone/deliverable receive an exceptional, very good, or satisfactory rating for timeliness if it is rated as being of unsatisfactory quality. Overall satisfactory performance on a milestone/deliverable requires ratings of satisfactory, very good or exceptional for the quality, timeliness, and safety standards.

4.0 Surveillance Methodology

The surveillance methods listed below will be used in the execution of this QASP.

4.1 *100% Inspection*

All key milestones and deliverables will be evaluated through 100% inspection (e.g., on-site inspection, document review). The COR will document performance for each completed milestone/deliverable prior to payment, as described in Section 5.0 of the QASP.

4.2 *Periodic Progress Inspection*
At the COR's discretion, periodic inspections may be conducted to evaluate progress toward and/or completion of key milestones and deliverables. The COR may complete a periodic progress inspection if s/he believes that deficiencies exist that must be addressed prior to milestone/deliverable completion. While corrective action or re-performance will be required if necessary, the Contractor will not be financially penalized for unacceptable performance recorded in periodic progress reports, provided that final performance evaluation of the milestone/deliverable is deemed acceptable.

4.3 *Customer Feedback*
Additional feedback will be obtained through random customer feedback. To be considered valid, input must set forth clearly and in writing the detailed nature of the feedback, must be signed, and must be forwarded to the KO. The KO will maintain a summary log of all formally received customer feedback as well as a copy of each feedback in a documentation file.

5.0 Surveillance Documentation

5.1 Quality Assurance Monitoring Form. The COR will use a performance evaluation form to record evaluation of the Contractor's performance for each milestone and deliverable in accordance with the methodology described in Sections 3.0 and 4.0 of the QASP. The COR must substantiate, through narratives in the form, all exceptional, very good, marginal, and unsatisfactory ratings. Performance at the satisfactory level is expected from the Contractor. At a minimum, the evaluation form will indicate actual and scheduled delivery times and number of reviews required to achieve the final product. The COR will forward copies of all completed performance evaluation forms to the KO and Contractor within one week of performing the inspection.

5.2 Corrective Action Process. When a milestone/deliverable receives an overall marginal or unsatisfactory rating, the Contractor will explain, within 15 days, in writing to COR why performance was marginal or unsatisfactory, how performance will be returned to satisfactory levels, and how recurrence of the problem will be prevented in the future.

5.3 KO Role in the Surveillance Process. The KO will review each performance evaluation form prepared by the COR. When appropriate, the KO may investigate further to determine if all the facts and circumstances surrounding the event were considered in the COR opinions outlined on the form. The KO will immediately discuss any marginal or unsatisfactory rating with the Contractor to assure that corrective action is promptly initiated.

5.4 Annual Performance Assessment. At the end of every year, the COR will prepare a written Contractor Performance Assessment Report (CPAR) for the KO summarizing the overall results of his/her surveillance of the Contractor's performance during the previous 12 months. This report will become part of the formal QA documentation.

5.5 QA File. The COR will maintain a complete QA file. This file will contain copies of all performance evaluation forms and any other related documentation. The COR will forward these records to the KO at termination or completion of the contract. All performance assessment

forms, attachments and working papers must be marked "FOR OFFICIAL USE ONLY/SOURCE SELECTION INFORMATION - SEE FAR 2.101 AND 3.104" according to Freedom of Information Act Program, FAR 3.104, and 41 USC Sect. 423. Assessment reports may also contain information that is proprietary to the contractor. Information contained on the CPAR, such as trade secrets and protected commercial or financial data obtained from the contractor in confidence, must be protected from unauthorized disclosure. COR's shall annotate on the assessment report if it contains material that is a trade secret, etc., to ensure that future readers of the evaluations are informed and will protect as required. Contractor performance information is privileged source selection information. It is also protected by the Privacy Act and is not releasable under the Freedom of Information Act.

6.0 Payment and Corrective Action

6.1 Satisfactory Performance. Full payment for a milestone/deliverable will be provided upon verification of overall satisfactory performance, as rated on quality and schedule. This verification will be recorded in a performance evaluation form submitted to the KO specifying overall Contractor performance as satisfactory, very good, or exceptional for the milestone/deliverable.

6.2 Marginal or Unsatisfactory Performance. If a milestone/deliverable receives a marginal or unsatisfactory rating for the quality performance standard, re-performance is required until the milestone/deliverable receives a rating of satisfactory or better. This re-performance is required regardless of cost or schedule constraints that may result from the marginal or unsatisfactory performance, unless the KO has opted to terminate the contract. If a rating of satisfactory or better is not achieved, the Government may reduce the contract price to reflect the reduced value of the services in accordance with FAR 52.246-4(e).

6.3 Table 2 in the QASP provides a sample of the minimum key elements planned for the QASP. The final QASP will be developed with the COR and the contractor and will be based on the final PMP.

Additional Government surveillance activities may include, but are not limited to, the following:

- Work plan review and approval
- Oversight of geophysical survey & analysis activities
- Oversight of drilling, field sampling activities
- Oversight of all waste management functions/responsibilities
- Review of all waste management documentation
- Separate/split laboratory QA samples
- Review and approval of meeting minutes from BCT meetings
- Review and approval of all deliverables to regulatory agencies
- Review of quality control documentation
- Review of project safety record
- Adherence to the approved work plan

Table 2 (SAMPLE) QASP Performance Objectives, Acceptance Criteria, and Monitoring Methods

Performance Objectives	***Performance Standards***	***Acceptable Quality Levels***
Approved Project Management Plan (PMP) and Quality Assurance Surveillance Plan (QASP): • Draft PMP and QASP within 30 calendar days of contract award, • Final PMP within 30 calendar days of receipt of COR comments on the drafts.	Army approval through the Contracting Officer's Representative (COR).	Exceptional, Very Good, or Satisfactory performance, as defined in Table 2 of the PWS.

Monitoring Method: 100% inspection of milestones / deliverables associated with objective

What we're looking for:

- Detailed technical approach included in the PMP
- Project Team and Roles and Responsibilities are included in the PMP
- Interim Payment schedule included in the PMP
- Activity-based schedule included in the PMP
- Complete document submittal distribution list included in the PMP
- Project Status reports provided as proposed
- The Contractor keeps a record of each phone conversation, written correspondence, and meeting minutes affecting decisions related to the performance of this PWS. Copies of this correspondence are submitted to the COR.

QUALITY ASSURANCE MONITORING FORM

Date: ___/____/_____

Work Task (Milestone/Activity): _____

Survey Period: ___/____/_____ through ___/____/_____
Method of Surveillance: COR Review

Evaluation of Contractor's Performance: _____

Evaluation

Corrective Action Required: ☐ Yes ☐ No

Narrative Discussion of Contractor's Performance During Survey Period:

Discussion

CORRECTIVE ACTION FORM FOR QASP

1) Work Task (Milestone/Activity): _____

2) Survey Period: ___/____/_____ through ___/____/_____

3) Description of the Failure/Deficiency that Precipitated the Corrective Action:

Description

4) Description of the Criterion that the Failure/Deficiency was Evaluated Against:

Description

5) Personnel Involved in the Identification of the Failure/Deficiency, Determination of the Appropriate Corrective Action, Approval of the Corrective Action, and Implementation of the Corrective Action:

Description

6) Description of the Corrective Action that was Required:

Description

7) Date/Time of Implementation of the Corrective Action: ___/____/_____

Description

8) Follow-Up Information to Prevent Recurrence of Failure/Deficiency (i.e., Need For Revision of Procedures or Specifications):

Description

9) Personnel Responsible for Follow-Up Work:

Description

10) Planned Date for Follow-Up Surveillance: ___/____/_____

11) Other

ATTACHMENT D

ANTI-TERRORISM / OPERATIONS SECURITY

In accordance with (IAW) AT/OPSEC Operational Order (OPORD) 2013-74 - Integrating AT and OPSEC into the U.S. Army Corps of Engineers Acquisition Process, the Contractor shall comply with the completed U.S. Army Corps of Engineers Contract Requirements Package AT/OPSEC Review Cover Sheet --- provided under Attachment 4 of the SOW.

Note that the following blocks under Section C of the AT/OPSEC Review Cover Sheet apply to this contract action. Also note that the list of AT, iWATCH and OPSEC training URLs is provided under Attachment D of the PWS.

1. AT level 1 training. All Contractor employees, to include subcontractor employees, requiring access to Army installations, facilities, and controlled access areas shall complete AT Level 1 awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The Contractor shall submit certificates of completion for each affected Contractor employee and subcontractor employee, to the contracting officer representative (COR) or to the contracting officer, if a COR is not assigned, within 5 calendar days after completion of training by all employees and subcontractor personnel. AT Level 1 awareness training is available at the following website: https://atlevel1.dtic.mil/at .

3. Access and General Protection/Security Policy and Procedures. All Contractor and all associated subcontractors employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures. The Contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in Contractor security matters or processes.

4. iWATCH and/or CorpsWatch Training. The Contractor and all associated subcontractors shall brief all employees on the local iWATCH, Corps Watch, or See Something, Say Something program. This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees commencing performance with the results reported to the COR NLT 5 calendar days after contract award.

7. Requirement for OPSEC Training. Per AR 530-1, Operations Security, Contractor employees must complete Level I OPSEC training within 30 calendar days of contract award. Additionally, all Contractor employees must complete annual OPSEC awareness training.

13. Government Escort for Restricted Areas. All Contractor employees, including subcontractor employees who are not in possession of the appropriate security clearance, will be escorted in areas where they may be exposed to classified and/or sensitive materials and/or sensitive or restricted areas.

15. Pre-screen candidates using E-Verify Program. The Contractor must pre-screen Candidates using the E-Verify Program (http://www.dhs.gov/E-Verify) website to meet the established employment eligibility requirements. The Vendor must ensure that the Candidate has two valid forms of Government issued identification to ensure the correct information is entered into the E-Verify system. An initial list of verified/eligible Candidates must be provided to the COR no later than 3 business days after the initial contract award.

LIST of AT, iWATCH and OPSEC training URLs:

A. www.youtube.com/watch?v=UUYLftAoTa4

US Army General Chiarelli Antiterrorism Brief

B. http://www.youtube.com/watch?feature=player_detailpage&v=eNdfdH8ZXoU

LA PD Antiterrorism Training Video – iWatch

C. http://www.youtube.com/watch?feature=player_detailpage&v=RdgrLO4dyRQ

Army Antiterrorism Community Awareness

D. http://cdsetrain.dtic.mil/opsec/
OPSEC Awareness for Military Members, DoD Employees & Contractors

E. https://atlevel1.dtic.mil/at

AT Level 1 Awareness Training

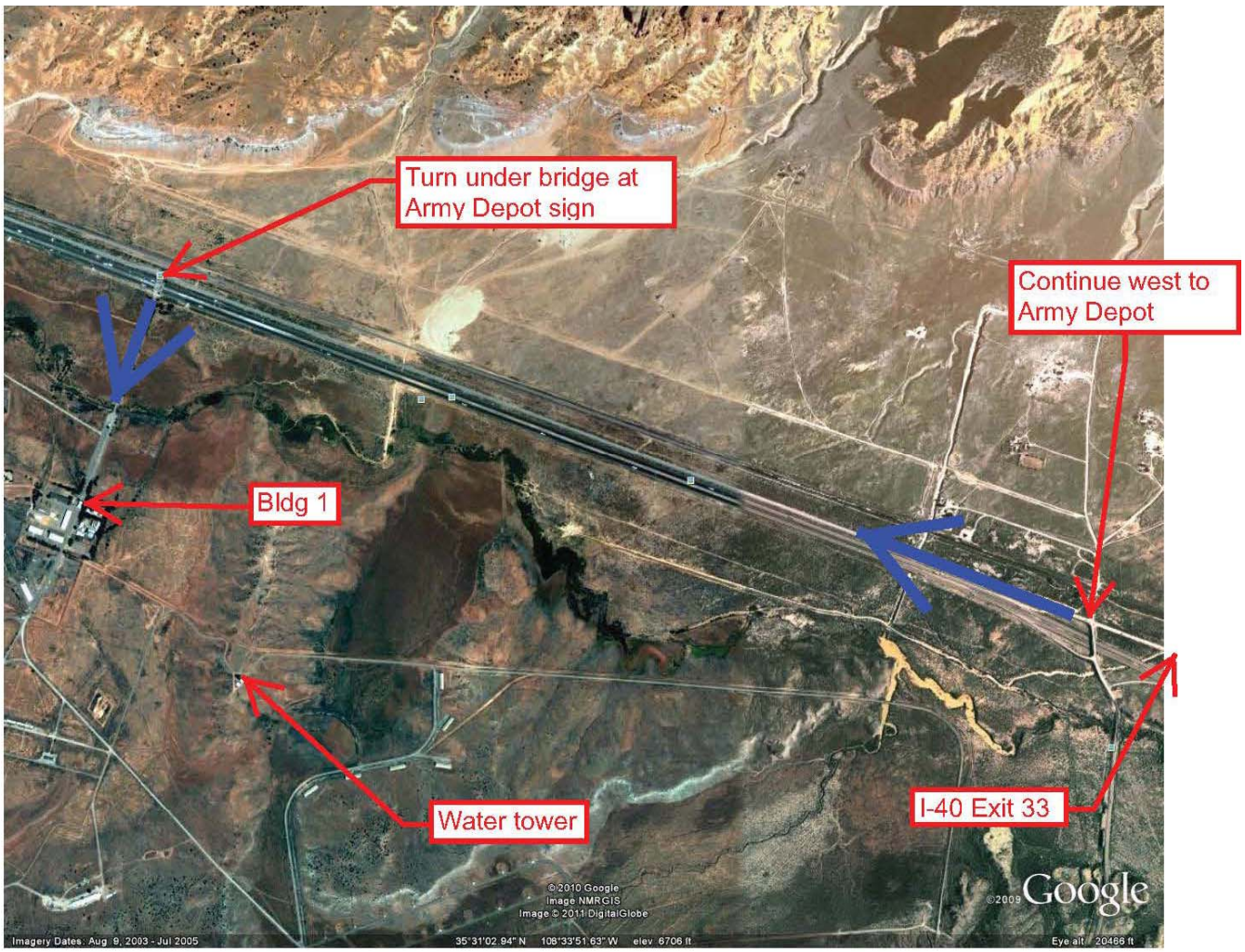
ATTACHMENT E - PRICING SCHEDULE

CLIN (Task)	Milestone	Unit	Unit Cost	Qty	Total Cost
001	Project Kick-Off Meeting at FWDA within 30 days of TO award	JOB (JB)		1	
002	Project Management Plan	JB		1	
003	Safety Plans	JB		1	
004	Draft SWMU 1 IMWP (Accepted by the Army)	JB		1	
	Final SWMU 1 IMWP (Approved by NMED)	JB		1	
005	Finals: Additional Planning Documents (EPP, Waste Management and the SWPPP)	JB		1	
006	SWMU 1 Fieldwork Execution @80% completion of excavation (base contract quantity) Calculated as a percentage of the work performed (not to include backfill or compaction)	JB		1	
	SWMU 1 Fieldwork Execution @100% completion of excavation (base contract quantity) Calculated as a percentage of the work performed (not to include backfill or compaction)	JB		1	
	SWMU 1 Fieldwork Execution @100% of backfill and compaction	JB		1	
007	Draft SWMU 1 Report (Accepted by the Army)	JB		1	
	Final SWMU 1 Report (Approved by NMED)	JB		1	
008	Parcel 24 – Permittee-Initiated Interim Measures 100% completion of task 8	JB		1	
009	Four Monitoring Wells, Plugging and Abandonment 100% completion of task	JB		1	
~~010~~	~~Determine the condition of the well in K Block~~ ~~100% completion of task~~	~~JB~~		~~1~~	
011	Meetings - 100% completion of each meeting	Meetings		3	
TOTAL FOR BASE TASK ORDER					
OPTIONS					
~~012~~	~~OPTION 1 - Plug and abandon well in K block – If Required~~	~~JB~~		~~1~~	
013	OPTION 2 - Additional Yardage (2000 CY) @100% excavation, backfill, compaction, & vegetative cover	JB		1	
014	OPTION 3 - Additional Yardage (5000 CY) @100% excavation, backfill, compaction, & vegetative cover	JB		1	
015	OPTION 4 - Additional Yardage (7500 CY) @100% excavation, backfill, compaction, & vegetative cover	JB		1	
016	OPTION 5 - Additional Yardage (10,000 CY) @100% excavation, backfill, compaction & vegetative cover	JB		1	
017	OPTION 6 - Additional Yardage (15,000 CY) @100% excavation, backfill, compaction & vegetative cover	JB		1	
018	OPTION 7 - Plug and abandon well TMW32 – If Required	JB		1	
019	OPTION 8 - Plug and abandon well TMW41 – If Required	JB		1	
TOTAL FOR OPTIONAL TASKS					

TOTAL FOR BASE TASK ORDER & OPTIONAL TASKS: _____

ATTACHMENT F

FORT WINGATE DEPOT ACTIVITY LOCATION MAP



APPENDIX B

PROJECT SCHEDULE/WORK BREAKDOWN STRUCTURE

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Table B-1 - Ft. Wingate Parcel 21 and Parcel 24 Schedule

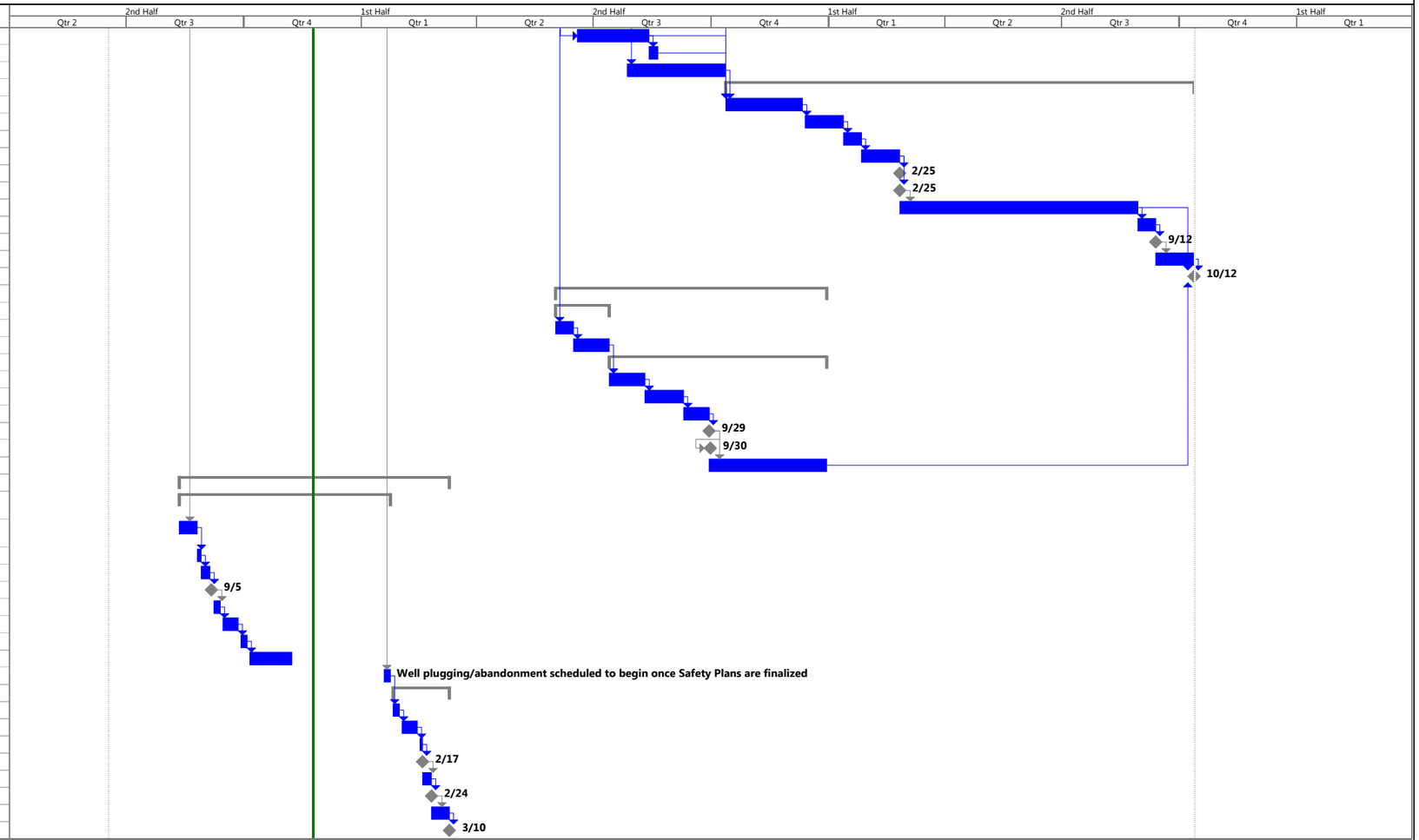
ID	Task Name	Duration	Start	Finish
1	**Fort Wingate IM for Parcel 21 - SWMU1 & Parcel 24 - Igloo Block A**	**567 days**	**Tue 8/12/14**	**Wed 10/12/16**
2	**Fort Wingate Award**	0 days	Tue 8/12/14	Tue 8/12/14
3	Kickoff Meeting	1 day	Wed 9/10/14	Wed 9/10/14
4	Draft Meeting notes from the Kickoff meeting	7 days	Thu 9/11/14	Fri 9/19/14
5	Final Meeting notes from the Kickoff meeting	0 days	Fri 9/19/14	Fri 9/19/14
6	**Planning Documents**	**567 days**	**Tue 8/12/14**	**Wed 10/12/16**
7	**Project Management Plan**	**56 days**	**Thu 9/11/14**	**Thu 11/27/14**
8	PMP /QASP Draft to the USACE	22 days	Thu 9/11/14	Fri 10/10/14
9	USACE review	13 days	Fri 10/10/14	Tue 10/28/14
10	Comments/Responses	16 days	Wed 10/29/14	Wed 11/19/14
11	Approval of Draft PMP/QASP	0 days	Wed 11/19/14	Wed 11/19/14
12	PMP /QASP Final to the USACE	6 days	Thu 11/20/14	Thu 11/27/14
13	Final PMP/QASP approval by the USACE	0 days	Thu 11/27/14	Thu 11/27/14
14	**Safety Plans**	**109 days**	**Wed 8/13/14**	**Mon 1/12/15**
15	SSHP, APP, AHA	21 days	Wed 8/13/14	Wed 9/10/14
16	USACE Review and Comments	15 days	Thu 9/11/14	Wed 10/1/14
17	Approval of Draft SSHP, APP, AHA	0 days	Wed 10/1/14	Wed 10/1/14
18	Final SSHP, APP, AHA	15 days	Tue 12/23/14	Mon 1/12/15
19	Final SSHP,APP,AHA approval by the USACE	0 days	Mon 1/12/15	Mon 1/12/15
20	**Interim Measures Work Plan (IMWP)**	**202 days**	**Wed 8/13/14**	**Thu 5/21/15**
21	Draft Interim Measures Work Plan (IMWP) Parcel 21	67 days	Wed 8/13/14	Thu 11/13/14
22	USACE review	22 days	Fri 11/14/14	Mon 12/15/14
23	Comments/Responses	23 days	Tue 12/16/14	Thu 1/15/15
24	Approval of Draft IMWP	0 days	Thu 1/15/15	Thu 1/15/15
25	Draft-Final IMWP submission to the USACE/NMED/Tribes	0 days	Thu 1/15/15	Thu 1/15/15
26	NMED/Tribes/Stakeholder Review-Approval	90 days	Fri 1/16/15	Thu 5/21/15
27	Approval of Final IMWP	0 days	Thu 5/21/15	Thu 5/21/15
28	**Prepare Parcel 24 Permittee Initiated IM Letter**	**120 days**	**Wed 8/13/14**	**Tue 1/27/15**
29	Draft Parcel 24 PIIM letter preparation	32 days	Wed 8/13/14	Thu 9/25/14
30	USACE Review	4 days	Fri 9/26/14	Wed 10/1/14
31	Comments/Respones	5 days	Thu 10/2/14	Wed 10/8/14
32	Approval of Draft Parcel 24 PIIM Letter	0 days	Wed 10/8/14	Wed 10/8/14
33	USACE review of final	11 days	Thu 10/9/14	Thu 10/23/14
34	Submit PIIM letter to stakeholders	0 days	Fri 10/24/14	Fri 10/24/14
35	Stakeholder Review (Tribes/Stakeholders)	44 days	Mon 10/27/14	Thu 12/25/14
36	Approval from the NMED	23 days	Fri 12/26/14	Tue 1/27/15
37	Approval of Final Parcel 24 PIIM Letter	0 days	Tue 1/27/15	Tue 1/27/15
38	**Other Plans**	**164 days**	**Wed 8/13/14**	**Mon 3/30/15**
39	**EPP/SPCC**	**71 days**	**Wed 8/13/14**	**Wed 11/19/14**
40	EPP, SPCC draft document to the USACE	43 days	Wed 8/13/14	Fri 10/10/14
41	USACE Review	11 days	Mon 10/13/14	Mon 10/27/14
42	Comments/Responses/Resubmit Plans	7 days	Tue 10/28/14	Wed 11/5/14
43	Approval of Draft EPP/SPCC	0 days	Wed 11/5/14	Wed 11/5/14
44	Back Check of EPP, SPCC by the USACE	10 days	Thu 11/6/14	Wed 11/19/14
45	Approval of EPP, SPCC by the USACE	0 days	Wed 11/19/14	Wed 11/19/14
46	**WMP/HSCP**	**71 days**	**Wed 8/13/14**	**Wed 11/19/14**
47	WMP, HSCP draft document to the USACE	43 days	Wed 8/13/14	Fri 10/10/14
48	USACE Review	11 days	Mon 10/13/14	Mon 10/27/14
49	Comments/Responses/Resubmit Plans	7 days	Tue 10/28/14	Wed 11/5/14
50	Approval of Draft WMP/HWCP	0 days	Wed 11/5/14	Wed 11/5/14
51	Backcheck of WMP, HSCP by the USACE	10 days	Thu 11/6/14	Wed 11/19/14
52	Approval of the WMP/HWCP	0 days	Wed 11/19/14	Wed 11/19/14
53	**SWPPP**	**101 days**	**Mon 11/10/14**	**Mon 3/30/15**
54	Prepare SWPP Plan and submit to the USACE	49 days	Mon 11/10/14	Thu 1/15/15
55	USACE review	11 days	Fri 1/16/15	Fri 1/30/15
56	Comments/Responses/Resubmit Plan	10 days	Mon 2/2/15	Fri 2/13/15
57	Backcheck of SWPPP	10 days	Mon 2/16/15	Fri 2/27/15
58	Approval of SWPPP	0 days	Fri 2/27/15	Fri 2/27/15
59	NOI - EPA Region 6	22 days	Fri 2/27/15	Mon 3/30/15
60	**Fieldwork/Reporting**	**364 days**	**Fri 5/22/15**	**Wed 10/12/16**
61	**Parcel 21**	**364 days**	**Fri 5/22/15**	**Wed 10/12/16**
62	**IMWP implementation**	**102 days**	**Fri 5/22/15**	**Mon 10/12/15**
63	Field Work Pre-Kickoff Meeting	1 day	Fri 5/22/15	Fri 5/22/15
64	Potable Water Certification	1 day	Mon 5/25/15	Mon 5/25/15
65	Mobilizaton	5 days	Tue 5/26/15	Mon 6/1/15
66	Pre-Excavation and delineation sampling	15 days	Mon 5/25/15	Fri 6/12/15
67	Approval of the Waste profile	10 days	Tue 5/26/15	Mon 6/8/15
68	Site Setup and Survey	5 days	Tue 6/2/15	Mon 6/8/15
69	Parcel 21 Excavation (Base)/T&D/Survey	35 days	Tue 6/9/15	Mon 7/27/15
70	Parcel 21 Confirmation Sampling	27 days	Tue 6/16/15	Wed 7/22/15

Project: Wingate Schedule Revi
Date: Mon 11/24/14

Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline | Progress

Table B-1 - Ft. Wingate Parcel 21 and Parcel 24 Schedule

ID	Task Name	Duration	Start	Finish
71	Parcel 21 Backfilling Operations/Survey	40 days	Fri 6/19/15	Thu 8/13/15
72	Reseeding	5 days	Fri 8/14/15	Thu 8/20/15
73	Parcel 21 Excavation (Options)/T&D/Survey	55 days	Tue 7/28/15	Mon 10/12/15
74	**Interim Measures Completion Report**	**262 days**	**Tue 10/13/15**	**Wed 10/12/16**
75	Interim Measures Completion Report Draft	44 days	Tue 10/13/15	Fri 12/11/15
76	USACE/Army Review	22 days	Mon 12/14/15	Tue 1/12/16
77	Comments/Responses	10 days	Wed 1/13/16	Tue 1/26/16
78	Draft IM Report Backcheck from USACE/Army	22 days	Wed 1/27/16	Thu 2/25/16
79	Approval of Draft IM Report	0 days	Thu 2/25/16	Thu 2/25/16
80	Draft-Final IM Report to NMED, Tribes, Stakeholders	0 days	Thu 2/25/16	Thu 2/25/16
81	IM Report Stakeholder Review	132 days	Fri 2/26/16	Mon 8/29/16
82	Comments/Responses	10 days	Tue 8/30/16	Mon 9/12/16
83	Approval of Draft-Final IM Report	0 days	Mon 9/12/16	Mon 9/12/16
84	USACE/Army Backcheck of Final IM Report	22 days	Tue 9/13/16	Wed 10/12/16
85	NMED Approval of the NFA	0 days	Wed 10/12/16	Wed 10/12/16
86	**Parcel 24**	**152 days**	**Tue 6/2/15**	**Wed 12/30/15**
87	**PIIM Implementation**	**30 days**	**Tue 6/2/15**	**Mon 7/13/15**
88	Mobilization	10 days	Tue 6/2/15	Mon 6/15/15
89	Parcel 24 Igloo Drains Removal/Remediation	20 days	Tue 6/16/15	Mon 7/13/15
90	**Parcel 24 Completion Letter Report Draft to the USACE**	**122 days**	**Tue 7/14/15**	**Wed 12/30/15**
91	Parcel 24 Completion report preparation	20 days	Tue 7/14/15	Mon 8/10/15
92	USACE review of Parcel 24 Report	22 days	Tue 8/11/15	Wed 9/9/15
93	Comments/Responses resolution	14 days	Thu 9/10/15	Tue 9/29/15
94	Submit Final report for USACE Review, USACE review	0 days	Tue 9/29/15	Tue 9/29/15
95	USACE approval of Final and submission to the NMED/Stake	0 days	Wed 9/30/15	Wed 9/30/15
96	NMED/Tribes/Stakeholder Review-Approval	66 days	Wed 9/30/15	Wed 12/30/15
97	**Well Abandonment/Plugging**	**151 days**	**Tue 8/12/14**	**Tue 3/10/15**
98	**Well Plugging and Abandonments: Wingate 89, 90, 91, and FW 26**	**119 days**	**Tue 8/12/14**	**Fri 1/23/15**
99	Draft Abandonment and Plugging plans - Wingate 89, 90, 91, FW 26, TMW32/41	10 days	Tue 8/12/14	Mon 8/25/14
100	ARMY/USACE review	3 days	Tue 8/26/14	Thu 8/28/14
101	Comments/Response resolution	5 days	Fri 8/29/14	Thu 9/4/14
102	Final Abandonment/Plugging Plans to USACE/Army	0 days	Fri 9/5/14	Fri 9/5/14
103	Army/USACE review of the Final Plans	5 days	Mon 9/8/14	Fri 9/12/14
104	Final Plan to NMOSE for review and approval	10 days	Mon 9/15/14	Fri 9/26/14
105	Comments/Responses	5 days	Mon 9/29/14	Fri 10/3/14
106	Final Approval from NMOSE	25 days	Mon 10/6/14	Fri 11/7/14
107	Well abandonment/Plugging field work	5 days	Mon 1/19/15	Fri 1/23/15
108	**Well Abandonment Report**	**32 days**	**Mon 1/26/15**	**Tue 3/10/15**
109	Submit DRAFT Well Abandonment Reports to the USACE for Re	5 days	Mon 1/26/15	Fri 1/30/15
110	USACE/Army Review	10 days	Mon 2/2/15	Fri 2/13/15
111	Comments/Responses resolution	2 days	Mon 2/16/15	Tue 2/17/15
112	Final abandonment/Plugging Reports to USACE/Army	0 days	Tue 2/17/15	Tue 2/17/15
113	USACE/Army Approval of the Reports	5 days	Wed 2/18/15	Tue 2/24/15
114	Final Report submission to the NMOSE/Stakeholders for approv	0 days	Tue 2/24/15	Tue 2/24/15
115	NMOSE review	10 days	Wed 2/25/15	Tue 3/10/15
116	NMOSE Approval	0 days	Tue 3/10/15	Tue 3/10/15

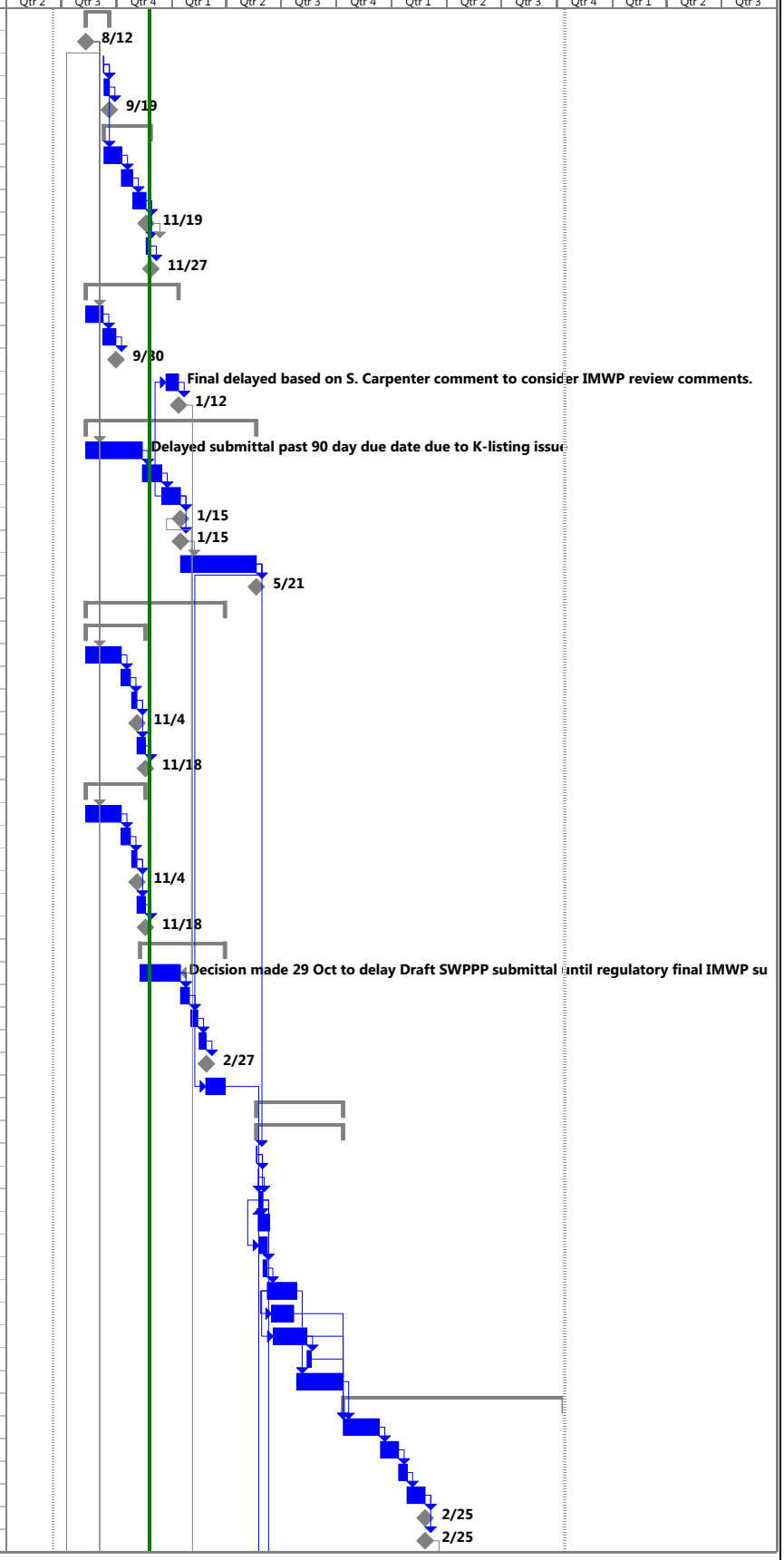


Project: Wingate Schedule Revi
Date: Mon 11/24/14

Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline | Progress

Table B-2 Fort Wingate Work Breakdown Structure

ID	Task Name
1	**1 Kickoff Meeting**
2	**1.1 Fort Wingate Award**
3	1.2 Kickoff Meeting
4	1.3 Draft Meeting notes from the Kickoff meeting
5	1.4 Final Meeting notes from the Kickoff meeting
6	**2 Project Management Plan**
7	2.1 PMP /QASP Draft to the USACE
8	2.2 USACE review
9	2.3 Comments/Responses
10	2.4 Approval of Draft PMP/QASP
11	2.5 PMP /QASP Final to the USACE
12	2.6 Final PMP/QASP approval by the USACE
13	**3 Safety Plans**
14	3.1 SSHP, APP, AHA
15	3.2 USACE Review and Comments
16	3.3 Approval of Draft SSHP, APP, AHA
17	3.4 Final SSHP, APP, AHA
18	3.5 Final SSHP,APP,AHA approval by the USACE
19	**4 Parcel 21 - SWMU 1, Interim Measures Work Plan (IMWP)**
20	4.1 Draft SWMU 1 IMWP
21	4.2 USACE review
22	4.3 Comments/Responses
23	4.4 Approval of Draft IMWP
24	4.5 Draft-Final IMWP submission to the USACE/NMED/Tribes
25	4.6 NMED/Tribes/Stakeholder Review-Approval
26	4.7 Approval of Final IMWP
27	**5 Additional Planning Documents**
28	**5.1 EPP/SPCC**
29	5.1.1 EPP, SPCC draft document to the USACE
30	5.1.2 USACE Review
31	5.1.3 Comments/Responses/Resubmit Plans
32	5.1.4 Approval of Draft EPP/SPCC
33	5.1.5 Back Check of EPP, SPCC by the USACE
34	5.1.6 Approval of EPP, SPCC by the USACE
35	**5.2 WMP/HSCP**
36	5.2.1 WMP, HSCP draft document to the USACE
37	5.2.2 USACE Review
38	5.2.3 Comments/Responses/Resubmit Plans
39	5.2.4 Approval of Draft WMP/HWCP
40	5.2.5 Backcheck of WMP, HSCP by the USACE
41	5.2.6 Approval of the WMP/HWCP
42	**5.3 SWPPP**
43	5.3.1 Prepare SWPP Plan and submit to the USACE
44	5.3.2 USACE review
45	5.3.3 Comments/Responses/Resubmit Plan
46	5.3.4 Backcheck of SWPPP
47	5.3.5 Approval of SWPPP
48	5.3.6 NOI - EPA Region 6
49	**6 Fieldwork - Parcel 21, SWMU 1**
50	**6.1 IMWP implementation**
51	6.1.1 Field Work Pre-Kickoff Meeting
52	6.1.2 Potable Water Certification
53	6.1.3 Mobilizaton
54	6.1.4 Pre-Excavation and delineation sampling
55	6.1.5 Approval of the Waste profile
56	6.1.6 Site Setup and Survey
57	6.1.7 Parcel 21 Excavation (Base)/T&D/Survey
58	6.1.8 Parcel 21 Confirmation Sampling
59	6.1.9 Parcel 21 Backfilling Operations/Survey
60	6.1.10 Reseeding
61	6.1.11 Parcel 21 Excavation (Options)/T&D/Survey
62	**7 SWMU 1 Report**
63	7.1 Interim Measures Completion Report Draft
64	7.2 USACE/Army Review
65	7.3 Comments/Responses
66	7.4 Draft IM Report Backcheck from USACE/Army
67	7.5 Approval of Draft IM Report
68	7.6 Draft-Final IM Report to NMED, Tribes, Stakeholders



Project: Wingate WBS 112414
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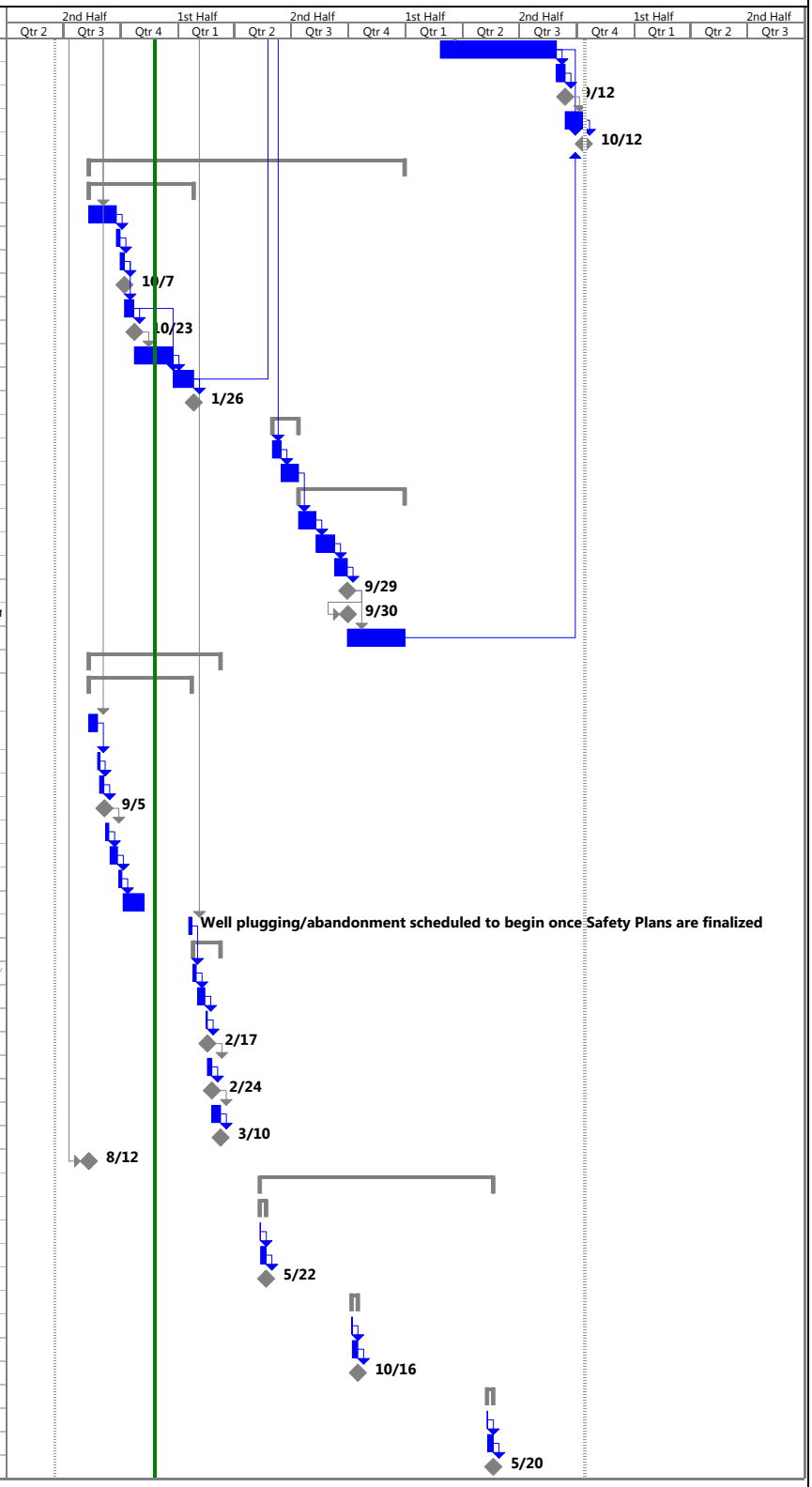
Task | Summary | External Milestone
Split | Project Summary | Deadline
Milestone | External Tasks | Progress

Table B-2 Fort Wingate Work Breakdown Structure

ID	Task Name
69	7.7 IM Report Stakeholder Review
70	7.8 Comments/Responses
71	7.9 Approval of Draft-Final IM Report
72	7.10 USACE/Army Backcheck of Final IM Report
73	7.11 NMED Approval of the NFA
74	**8 Parcel 24 - Permittee-Initiated Interim Measures**
75	**8.1 Prepare Parcel 24 Permittee Initiated IM Letter**
76	8.1.1 Draft Parcel 24 PIIM letter preparation
77	8.1.2 USACE Review
78	8.1.3 Comments/Respones
79	8.1.4 Approval of Draft Parcel 24 PIIM Letter
80	8.1.5 USACE review of final
81	8.1.6 Submit PIIM letter to stakeholders
82	8.1.7 Stakeholder Review (Tribes/Stakeholders)
83	8.1.8 Approval from the NMED
84	8.1.9 Approval of Final Parcel 24 PIIM Letter
85	**8.2 PIIM Implementation**
86	8.2.1 Mobilization
87	8.2.2 Parcel 24 Igloo Drains Removal/Remediation
88	**8.3 Parcel 24 Completion Letter Report Draft to the USACE**
89	8.3.1 Parcel 24 Completion report preparation
90	8.3.2 USACE review of Parcel 24 Report
91	8.3.3 Comments/Responses resolution
92	8.3.4 Submit Final report for USACE Review, USACE review
93	8.3.5 USACE approval of Final and submission to the NMED/Stakeholder
94	8.3.6 NMED/Tribes/Stakeholder Review-Approval
95	**9 Well Plugging and Abandonment**
96	**9.1 Well Plugging and Abandonments: Wingate 89, 90, 91, and FW 26**
97	9.1.1 Draft Abandonment and Plugging plans - Wingate 89, 90, 91, FW 26, TMW32/41
98	9.1.2 ARMY/USACE review
99	9.1.3 Comments/Response resolution
100	9.1.4 Final Abandonment/Plugging Plans to USACE/Army
101	9.1.5 Army/USACE review of the Final Plans
102	9.1.6 Final Plan to NMOSE for review and approval
103	9.1.7 Comments/Responses
104	9.1.8 Final Approval from NMOSE
105	9.1.9 Well abandonment/Plugging field work
106	**9.2 Well Abandonment Report**
107	9.2.1 Submit DRAFT Well Abandonment Reports to the USACE for Revie
108	9.2.2 USACE/Army Review
109	9.2.3 Comments/Responses resolution
110	9.2.4 Final abandonment/Plugging Reports to USACE/Army
111	9.2.5 USACE/Army Approval of the Reports
112	9.2.6 Final Report submission to the NMOSE/Stakeholders for approval
113	9.2.7 NMOSE review
114	9.2.8 NMOSE Approval
115	10 Determine Condition of /well in K Block (NOT USED)
116	**11 Meetings**
117	**11.1 Meeting Number 1**
118	11.1.1 Attend Meeting No. 1
119	11.1.2 Draft Meeting Notes from Meeting No. 1
120	11.1.3 Final Meeting Nortes from Meeting No. 1
121	**11.2 Meeting Number 2**
122	11.2.1 Attend Meeting No. 2
123	11.2.2 Draft Meeting Notes from Meeting No. 2
124	11.2.3 Final Meeting Nortes from Meeting No. 2
125	**11.3 Meeting Number 3**
126	11.3.1 Attend Meeting No. 3
127	11.3.2 Draft Meeting Notes from Meeting No. 3
128	11.3.3 Final Meeting Nortes from Meeting No. 3



Project: Wingate WBS 112414
Date: Mon 11/24/14

Task | Summary | External Milestone
Split | Project Summary | Deadline
Milestone | External Tasks | Progress

APPENDIX C

CHANGE REQUEST FORM

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FIELD CHANGE REQUEST	
Project: Parcel 21 – Solid Waste Management Unit 1, Parcel 24 – Igloo Block A, and Abandonment of Wells **Location:** Fort Wingate Depot, New Mexico	**Contract No.:** W9128F-13-D-0025 **Task Order No.:** DS01
Proposed Activity in Scope: ☐ **YES** ☐ **NO**	**Order of Magnitude Cost Estimate to Implement Change: None.**
Task/Subtask(s) Affected:	**Potential Schedule Impact of Change:** ☐ **YES** ☐ **NO** (If yes, number of workdays:)
Affected Document(s):	
Activity/Change Description:	
Recommendations:	
Internal Approval/Acknowledgement	
Prepared by: Steve Morrissette **Date:**	**Approved by:** Raghu Arora **Date:**
USACE Approval *(Note: Approval does not consent to funding; consent to execute FCR only.)*	
Approved by: _____ Signature and Date **USACE Comments:**	**Distribution:**

APPENDIX D

COMMENT RESPONSE TABLES

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Comment Responses Table

Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …

Ft Wingate Depot Activity

11/24/14

Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
Commenter: CESWF-PEC-T; Mike Scoville (USACE Field Representative) ***Respondent – Steve Morrissette - ZAPATA***				
1	3-1/Table 3-1	Name and email address for FWDA Admin Record Manager	Leave name generic – Administrative Record Manager, no email address	Agree. "TBD" has been removed so that it is left generic.
2	4-2/Table 4-1	Several occurrences of "stockholders" instead of "stakeholders.	Change "stockholders" to "stakeholders"	Agree. The typographical errors have been corrected as requested.
3	5-1/12	Remove all igloo drains and contaminated…..	Change to "Remove all igloo drain pipes, plug resulting openings in igloo headwalls, and remove contaminated…..	Agree. The suggested text has been implemented into this document and other documents with similar statements as requested.
Commenter – CESPA-ECEG; David W. Henry (Project Geologist/Manager) ***Respondent – Steve Morrissette - ZAPATA***				
1	1-1/20	Add cumulative risk to this bullet.		Agree. Cumulative risk has been added to this bullet and other documents with similar statements as requested.
2	1-1/20	We will not be able to achieve an NFA on the entire TNT leaching bed, just for the residential exposure	It is unlikely that we can achieve complete NFA. Soil remaining in place have not be negotiated with NMED.	Agree. "NFA" was included based on references to obtaining it in the PWS. The reference to "NFA" has been removed and a search for removal at other locations/documents has been completed.
3	1-1/32	SWMU-1 is not commonly referred to as the TNT leaching beds. The TNT leaching beds are sites within SWMU-1 (granted, they are the most concern and probably consume most of the area)		Agree. Language was changed to indicate as follows: "This includes Parcel 21, which encompasses Solid Waste Management Unit (SWMU) 1. SWMU 1 contains the features that are the subject of the IM in Parcel 21, pre- and post-1962 2,4,6-

Comment Responses Table

Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …

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Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
				Trinitrotoluene (TNT) leaching beds."
4	1-1/28	Most FWDA documents state that FWDA is 7 miles east of Gallup	Check of accuracy	Agree. The mileage has been adjusted to "7" miles as requested.
5	1-1/33	Add 2,4,6 to trinitrotoluene	To be consistent with FWDA documents	Agree. The sentence has been updated to "2,4,6-trinitrotoluene" versus "trinitrotoluene."
6	1-2/15 thru 19	The contract may state that you need COR approval to talk to regulators without USACE, but the COR is in Tulsa and not familiar with the project and State regulators. Myself and/or the PgM (Steve Smith) will decide if Zapata can discuss the project with the State without government participation. If either of us give permission to communicate with regulators or other stakeholder, that's all the permission needed. We will notify the COR.		Agree. The text has been revised to state that only the USACE PM or FWDA Program Manager may grant authorization for the contractor to contact the regulators.
7	1-2/31	Add appropriate training for the MEC work that will be performed at the beginning of the project (scraping the top 1-foot to reduce the explosive percentage of the soil).		Agree. The following bullet and text has been added to the document: • For the initial site activities at SWMU 1, which includes mixing of soils with greater than 10% explosives compounds by weight, the following personnel and training will be required: a. The operation will be staffed with a Senior Unexploded Ordnance Supervisor (SUXOS), and an Unexploded

Comment Responses Table

Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …

Ft Wingate Depot Activity

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				Ordnance (UXO) Technician II and a UXO Technician III. b. The UXO personnel will meet the standards of Department of Defense Explosive Safety Board (DDESB) TP-18 (DDESB, 2004) for their respective assigned positions. c. All UXO personnel will have a current and valid UXO database number on file.
8	2-2	Org Chart: Change my title to Project Geologist/ Manger. Remove Matt Masten and replace with Angela Lane, Project Chemist		Agree. Mr. David Henry's title has been updated and Matt Masten has been replaced with Angela Lane as requested.
9	2-3/2 thru 8	I am also responsible for upper reporting to the COR's. On paper, the CORs are responsible for everything stated in 2.1.2, but in reality, I will report to them on all contract activities.		Agree. The CORs have been added to this section for upper reporting.
10	2-3/14	I don't think we've ever used IOSC as Mark's title. How did you determine this?	Discuss with me	Agree. As discussed in a conference call on 31 Oct. 2014, the IOSC responsibilities have been changed to Mr. Cruz, FWDA Caretaker.
11	~~2-3/22~~	~~Add that you are the primary point of contact for the contract (if this is accurate)~~	Noted in section 2.3	Disregard comment (DWH – Oct 27,14)
12	2-3/28	Mike (the field rep) reports to me (PM), and I report to Steve (PgM).		Agree. The USACE Program Manager has been removed from his upper reporting responsibility.

Comment Responses Table

Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …

Ft Wingate Depot Activity

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Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
13	2-4/1 thru 5	Add fires		Disregarded. "Fires" were listed as the second item of the second sentence of this section (line 2). This was discussed in the 31 Oct. 2014 conference call and it was agreed the statement was sufficient as is.
14	2-4/16&17	What other NMED agencies other than the HWB are stakeholders?	Suggest making one bullet out of these two (NMED-HWB), No other NMED agencies are major stakeholders. From time to time, agencies such as the Solid Waste Bureau may get involved for solving waste issues, but their involvement is limited in scope. I would not consider them a major stakeholder.	Agree. NMED and HWB have been combined into one bullet.
15	2-4/27	IOSC (see comment 10)		Agree. See Response to Comment 10.
16	2-5/4&5	USACE will communicate with stakeholders unless otherwise directed. Zapata can directly communicate with caretakers at FWDA and USACE only, unless otherwise authorized.	See section 1.4	Agree. The text has been altered as follows: "Mr. Steve Morrissette, PG, CPG is the primary point of contact for ZAPATA. ZAPATA will primarily communicate with the USACE PM or Program Manager, or FWDA personnel, as part of the USACE Team for this project using various media, including email, telephone and hard-copy letter. Unless otherwise directed by the USACE, ZAPATA personnel will not communicate directly with persons outside the USACE project

Comment Responses Table
Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …
Ft Wingate Depot Activity

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Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
				team including NMED, and USEPA personnel. Direct and conference telephone calls and meetings that include substantive information will be documented. All communication documents are stored electronically on ZAPATA servers and will be provided to the CESWF and CESPA at the conclusion of the project, or earlier if requested."
17	Table 3-1	Put in alphabetical order or in order of importance. Also check to ensure that fonts are all the same size and type. My name has a larger font.	If listing in order of importance (hierarchal), suggest listing as follows: Bill O Donnell, then Mark and Steve. Then list John Kieling and David Cobrain, then the Tribal contacts. Then list the remaining USACE Staff, starting with me, then NMED remaining Staff, then EPA, and then other agencies/stakeholders.	Agree. The requested changes have been made.
18	4-1	Table 4-1: The performance criteria for planning document such as the P21 PIIM letter/report and the SWMU-1 work plan and report is not government acceptance. NMED regulatory approval is the performance criteria on all final documents. Draft documents requiring government acceptance is a performance criteria, but ultimately, NMED approval must be obtained.	Contact me for clarification. Generally speaking, NMED is the approving agency except in those cases that involve field activity.	Agree. The "Achievement Criteria" for the subject work elements has been changed to "NMED Regulatory Approval".
19	4-2	Table 4-1: Well Plugging is approved upon		Agree. The "Achievement Criteria"

Comment Responses Table
Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …
Ft Wingate Depot Activity

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Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
		OSE approval. NMED is not involved. Approval has been granted by NMED to plug these wells. Regarding wells that may be plugged due to excavation activities, NMED will not approve. This is a decision made by USACE in order to execute the project and meet its objectives. The OSE will approve those plans as well.		for the subject work element has been changed to "NMOSE Approval of Well Plugging Reports".
20	5-1/9	Include cumulative risk		Agree. Cumulative risk has been added to this bullet and other documents with similar statements.
21	5-2/8&9	Clarify that you will not be storing fuel in an office trailer	Suggest removing office/storage trailer and replace with storage trailer.	Agree. The following section of the sentence has been removed "or within the office/storage trailer".
22	5-2/14	Typo "leach beds" should be leaching beds		Agree. The typographical error has been corrected.
23	5-3/28&29	Zapata will not contact the COR directly. Zapata will notify the field rep, the field rep will notify the PM, and the PM will coordinate with the PgM and COR to execute optional yardage requirements.		Agree. This sentence has been modified to state: "The USACE Oversight Coordinator will be notified, who will in turn notify the USACE Project Manager if additional excavation options are foreseen as necessary."
24	Table 3-2	Neal Navarro should receive a disk of draft IM work plans and reports.	Contact me for clarification to determine if this is a mistake in the GFI and if a modification to the contract is required.	Agree. Mr. Navarro has been added to the distribution list.
25	5-5/25	"per-mitted" is this a typo?		Agree. The typographical error has been corrected.
26	5-6/3	Zapata will notify the field rep, the field rep will notify the PM, and the PM will notify the PgM, COR, and BEC since this would require a modification to the contract.	Since this will require a modification to the contract, work will most likely stop. The contract has no contingencies for hazardous waste that I am aware of. We	Agree. The bullets were removed and two sentences were added in their place as follows: "Although all waste is expected to be

Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
			probably need to discuss this because I am not sure what contractual requirements apply and what Zapata is obligated to do if a hazardous waste is indentified.	characterized as non-hazardous, if any waste is determined to be RCRA characteristic, ZAPATA will notify the USACE Oversight Coordinator upon receipt of data; who will in turn notify the USACE Project Manager as necessary. A contract modification may be required for any additional work activities."
27	5-8/7	All submittals, including work plans (drafts and finals), reports (drafts and finals), well abandonment plans (drafts and finals), will be submitted to the PM. The PM will coordinate with the COR.		Agree. The text has been changed to indicate the recipient of the respective documents is the USACE Project Manager.
28	Table 6-1	CLIN009: I don't think 90% of this CLIN is completed. Perhaps 100% of the plans are complete, but the wells are not yet plugged and the reports are not yet submitted. The reports for well plugging and abandonment will be submitted to the OSE, copies shall be provided in the SMWU-1 IM Report, in an appendix. However, copies will be submitted to the PM for the groundwater monitoring program records.	I may misunderstand this table. Is this an example? The percents do not match work completed to date. If this is an example, would it be more appropriate to title the table (Example) Also, there is no need to submit well abandonment reports to all the stakeholders. This information will be presented in the IM report as an appendix.	Comment noted. This was an example Milestone Payment Schedule (MPS) included as part of the Draft PMP, and was intended to be a starting point for discussion of the various payment milestones. The "90%" completion of task 009 was not intended to indicate that that level of the task had been completed, just that this was the recommended budget milestone percentage to be requested at that point in the task execution. A revised, and more detailed and realistic MPS, was recently submitted as part of the first monthly progress report, and this

Comment Responses Table
Army Draft PMP, IM for P21-SWMU-1, Parcel 24, …
Ft Wingate Depot Activity

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Cmt. No.	Page No./Line No.	Comment	Recommendation	Response
				MPS (or a variation of it based on negotiations) is expected to be included in the final PMP.
29	General	Unless I missed it, there was no Work Breakdown Structure (WBS) in the PMP	If there is, disregard this comment. If not, refer to Page 7, section 4.2, of the PWS	Agree. A WBS is now included in the Final PMP.
30	General	In Table 1 of the PWS (Performance Requirements Summary), it states that the method of surveillance/measurement will be done 100% COR verification. This does not mean the COR will be actively involved in each of these Tasks. They will be notified by the PM that each Task has met the performance threshold. The CORs will probably never be involved directly with the contractor unless there is a modification, when options are executed, or if there is some performance discrepancy. The PM will be the contractor's main POC and will coordinate with the COR's as necessary through the execution of the PWS.	The review of the PMP gave the impression that the contractor would directly coordinate and communicate with the COR. That is not the case for the PWS.	Agree. The text in the PMP has been altered to indicate that the coordination will be with the USACE Project Manager, who will then correspond with the COR.
31	General	This document will not be submitted to NMED or other stakeholders, therefore, the page reserved for NMED signature is not required.	Remove the page after the "Report Documentation Page" SF 298	Agree. The page was inadvertently included and has been removed as requested.