

FORMER LOWRY BOMBING AND GUNNERY RANGE

TECHNICAL ASSISTANCE FOR PUBLIC PARTICIPATION (TAPP) REPORT TO THE RESTORATION ADVISORY BOARD

PROGRESS REPORT

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CORRELATION CORP.
Golden, Colorado

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TAPP Work Sponsored By:



US Army Corps of Engineers - Omaha District
Contract: DACA45-01-P-0058
Contact: Jerry Hodgson

PROGRESS REPORT

- TASK 1 – ATTEND RAB MEETINGS (WORK CONTINUING)**

- TASK 2 – PARTICIPATE IN INDEPENDENT REVIEW ACTIVITIES**
 - SAR/HSI Field Verifications
 - Geophysical Investigation at Jeep/Demo Range
 - Recovered Chemical Warfare Materials (RCWM) Investigation - at the Jeep/Demo Range

- TASK 3 – BRIEFINGS & PRESENTATIONS (WORK CONTINUING)**

- TASK 4 –LOWRY/BUCKLEY FIELD WEBSITE (PERIODIC REVIEWS OF UPDATES ONGOING)**

- TASK 5 – PREPARE PROGRESS REPORTS (WORK CONTINUING)**

- TASK 6 – PROJECT ADMINISTRATION (WORK CONTINUING)**

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PARTICIPATION IN SAR/HSI INDEPENDENT REVIEW TEAM ACTIVITIES:

- Field Verification Exercise – To be scheduled
- Utilize Understanding of SAR/HSI Processing For Verification Work

PARTICIPATION IN JEEP/DEMO RANGE GEOPHYSICAL AND RCWM REVIEW ACTIVITIES:

- Participated in three planning and progress meetings. Data being processed and interpreted. A report on this activity will be given to the RAB after the report becomes available.
- Participating in preparation and review meetings for RCWM activities. Meetings attended on 09/19/02 and 11/19-20/02.

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UPDATE ON JEEP/DEMO RANGE RECOVERED CHEMICAL WARFARE MATERIEL (RCWM) ACTIVITIES

- **Geophysical Data Report – Final report has not been released yet but the work is progressing on developing “target discrimination” characteristics, i.e., geophysical data signatures that are “more PIG-like” and “less PIG-like.” Tower suspension studies are continuing to develop better signatures for various PIG orientations. Goal of the work is to identify definitive PIG targets to dig.**

- **Maximum Credible Event (MCE) Analysis**
 - **Maximum release of a chemical agent from a munition, bulk container, or process that could occur as a result of an unintended, unplanned, or accidental incident.**
 - **The event model must be realistic with reasonable probability of an occurrence.**
 - **The results of the MCE are used to establish safe work areas or “exclusion zones” and the MCE is an essential part of the Chemical Safety Submission (CSS).**

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- **TYPES OF CHEMICAL AGENT IDENTIFICATION SETS (CAIS) THAT MAY BE ENCOUNTERED AT FLBGR JEEP/DEMO RANGE AREA:**
 - K941, TOXIC GAS SET
 - K951, GAS SET IDENTIFICATION, DETONATION
 - K955/NAVY X SET, GAS IDENTIFICATION, INSTRUCTIONAL
- **K941, TOXIC GAS SET (Packed in PIGs)**
 - 3 ½ ounces undiluted mustard agent (designated H, HS, or HD)
- **K951, Gas Set Identification, Detonation (Packed in PIGs)**
 - 40 mL of diluted mustard agent (HD); 5% solution in chloroform (3)
 - 40 mL of diluted Lewisite blister agent (L); 5% solution in chloroform (3)
 - 40 mL of undiluted phosgene choking agent (CG); 100% solution (3)
 - 40 mL of diluted chloropicrin tear agent (PS); 50% solution (3)

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- **K955, Navy X Set, Gas Identification, Instructional (Packed in PIGs)**
 - 25 mL mustard agent (HS) with activated charcoal
 - 25 mL Lewisite blister agent (L) with activated charcoal
 - 25 mL chloropicrin tear agent (PS) with activated charcoal
 - 6 grams triphosgene (simulated CG choking agent)
 - 15 grams chloroacetophenone (tear gas agent CN)
 - 15 grams Adamsite vomiting agent (DM)
- **Also Navy X Replacement Sets not packed in Pigs**
 - Various replacement agents packed in paint-type cans
- **Maximum Credible Event (MCE) analysis found that the greatest downwind hazard zone was created by an instant release of a 40-mL vial of phosgene choking agent with an approximate 3-feet/second windspeed.**
 - **No Significant Effects (NOSE) zone for this type of event would be approximately 433 feet. Use of engineering controls (tents, enclosures, etc.) over excavation areas reduces the exclusion zone to the proximity of the excavation area.**

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- **PRIMARY DOCUMENTS TO BE COMPLETED AND APPROVED PRIOR TO BEGINNING WORK:**
 - **CHEMICAL SAFETY SUBMISSION (CSS)**
 - **Comprehensive planning document that describes the approach to the work, hazards, controls, and project infrastructure to ensure safe removal and disposition of RCWM from the site.**
 - **The CSS is currently being reviewed by a multi-disciplinary technical and regulatory review team. Excellent multi-agency and contractor cooperation to move the CSS through the approval process.**
 - **PROJECT WORK PLAN (WP)**
 - **Comprehensive, detailed, procedural planning document that describes how the work will be performed with supporting work instructions, processes, engineering and site controls, and procedures. The WP is the focus of near-term reviews.**

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BUDGET PERFORMANCE [DACA45-01-P-0058]:

Percent Complete

