Closed Castner Firing Range Remedial Investigation

Technical Project Planning (TPP) Meeting #3
19 January 2017
9:00 AM – 1:00 PM
Meeting Agenda

• Meeting Goals
• Remedial Investigation (RI) Project Objectives
• Review of Technical Project Planning (TPP) Meeting #2
• RI Status
  • Munitions and Explosives of Concern (MEC) Investigation
    • Work Completed
    • Results
  • Munitions Constituents (MC) Investigation
    • Work Performed to Date
    • Results
    • Phase 2 Activities
• RI Report
• Schedule
• Questions and Follow-Up Items
Safety Moment

Learn and Follow the 3Rs

RECOGNIZE: The danger that a souvenir munition poses to yourself, your family and your neighbors

RETREAT: Do not disturb, touch or move it. Do not give or throw it away

REPORT: Call 911

LOT 16 CASTNER 4/28/16

- 40 m TPT (4)
- 40 m TPR POTS (2)
- 37 m TPT (2)
- BURN THROUGH TRACERS (8)
- 76 M RUBBER PALLETS
- 75 M POTS (1)
- .5 lbs FRAG

"ALL MOD"
Meeting Goals

- Review TPP Meeting #2 conclusions
- Present summary of field work performed to date and preliminary results:
  - MEC Investigation
  - MC Investigation
- Discuss remaining field work
- Discuss RI Report
- Review remaining schedule
RI Project Objectives

• Overall Goal:
  • Gather sufficient information to determine the nature and extent of MEC / MC and assess potential risks / hazards at the Closed Castner Firing Range MRS

• RI Objectives:
  • Conduct RI field investigation to characterize the Closed Castner Firing Range
    • Determine the type (nature), density and distribution (extent) of MEC
    • Determine the concentrations and extent of MC
  • Assess potential risks/hazards to human health, safety and the environment
  • Ensure sufficient data collected to develop remedial alternatives for Feasibility Study phase
Review of TPP Meeting #2

Meeting held 11 February 2015

- Reviewed the project stakeholders
- Reviewed the MMRP and RI project objectives
- Discussed the detailed technical approach as presented in the QAPP
- Confirmed Regulatory concurrence
- Obtained stakeholder input on the plan
- Reviewed and confirmed TPP#1 conclusions
- Obtained stakeholder input on the plan
Actions Completed Since TPP 2

• Finalized QAPP
• Conducted Public Meeting
• Finalized Explosives Site Plan
• Completed MEC Investigation
• Completed Phase I of the MC Investigation
## Castner Range RI Tasks

<table>
<thead>
<tr>
<th>Implement TPP Process</th>
<th></th>
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<tbody>
<tr>
<td>TPP Meeting #1 &amp; 2</td>
<td>Complete</td>
</tr>
<tr>
<td>TPP Meeting #3</td>
<td>Today</td>
</tr>
<tr>
<td>TPP Meeting #4</td>
<td>~ April 2017</td>
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<table>
<thead>
<tr>
<th>Develop Planning Documents</th>
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<tbody>
<tr>
<td>QAPP</td>
<td>March 2015</td>
</tr>
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<td>ESP</td>
<td>March 2016</td>
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<table>
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<tr>
<th>Community Relations Support</th>
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<tbody>
<tr>
<td>Public Meeting 1</td>
<td>May 2015</td>
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<tr>
<td>Public Meeting 2</td>
<td>~ July 2017</td>
</tr>
<tr>
<td>RAB Meetings</td>
<td>~ April 2017</td>
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| RI Report                     | Currently Working |

General RI Approach / Data Gaps

- Includes MEC and MC investigation
- Evaluate and utilize previous work, especially:
  - 2012 WAA Field Demonstration Report
  - 2013 ISM Field Demonstration Report
- Collect additional MEC and MC data to fill data gaps:
  - Vertical and horizontal extent of MEC and MC
  - MEC density outside identified CMUA
  - Identify additional CMUAs in high slopes, if present
  - Transportation potential of MEC and MC from high to low elevations
RI Technical Approach - MEC

- Sufficient existing data to:
  - Define boundary CMUAs (i.e., potential target areas) in eastern side of MRS
  - Show that CMUAs were delineated to an accuracy of +/- 250 ft
  - Characterize nature and extent of MEC within CMUAs

- Phased field investigation will close remaining data gaps:
  - Define boundary of CMUAs, if any, in steep areas within western side of MRS
  - Verify that MEC density throughout MRS outside of CMUAs is < 0.1 MEC/acre to a 95% confidence level
  - Migration potential of MEC (and MC) from higher to lower elevation areas
Delineated CMUAs
RI Technical Approach – MEC

• MEC approach uses UXO Estimator to determine statistically valid approaches

  • In areas with slopes < 30%:
    • Investigate approximately 25 acres, using three methods:
      • Reacquisition and intrusive investigation of WAA anomalies (~16 acres)
      • Collection of new DGM data, processing, and intrusive investigation (~5 acres)
      • Analog (“mag and dig”) transect surveys (~ 4 acres)

  • In areas with slopes > 30%:
    • 70 acres via Instrument-assisted visual survey
    • Analog (i.e., “mag and dig”) investigation if potential CMUA identified
RI Technical Approach – MEC

- MEC Phase 1: Instrument Assisted Visual Surveys (areas with slopes > 30%)
  - Meandering path surveys
  - Handheld GPS and EMI sensor
  - No intrusive investigation
- MEC Phase 2 (areas with slopes < 30%):
  - Phase 2a: Investigation of WAA anomalies
    - 1750 100-ft transect segments selected
    - Reacquire anomalies with GPS and hand-held EMI sensor (e.g., White’s all metals detector)
    - Intrusively investigate with hand tools
    - Record results in tablet PC

Handheld EMI Sensor
RI Technical Approach – MEC

- MEC Phase 2 (areas with slopes < 30%):
  - Phase 2b: DGM Grids
    - 22 100’ x 100’ grids (areas with <18% slope)
    - Designed in UXO Estimator
    - EM61-MK2 surveys with RTK DGPS positioning
    - Investigate all anomalies meeting selection criteria with hand tools
    - Record results in tablet PC
  - Phase 2c: Analog (“mag and dig”) transects
    - 1,002 randomly placed 100-ft transect segments (18% < slopes < 30%)
    - Use hand-held EMI sensor to identify anomalies
    - Intrusively investigate with hand tools
    - Record results in tablet and GPS anomalies
RI Technical Approach – MEC

- MEC Phase 3 (areas with slopes > 30%)
  - Analog ("mag and dig" transects) in IAVS areas with anomaly density greater than 300 anomalies/acre
  - Analog transects to determine the nature and extent of MEC within potential CMUA

Handheld EMI Sensor

Analog "mag and dig"
## MEC Sampling Design

<table>
<thead>
<tr>
<th>Decision Unit</th>
<th>Area (acres)(^1)</th>
<th>Sampling Design</th>
<th>Required Investigation (acres)</th>
<th>Actual Investigation (acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MEC/ Acre</td>
<td>Conf. Level</td>
<td>Investigation Type</td>
</tr>
<tr>
<td>Areas outside NCMUA</td>
<td>5977</td>
<td>&lt; 0.1</td>
<td>95%</td>
<td>Total Required</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Conducted in WAA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Analog Transects</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RI WAA DGM Transect</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RI DGM Grid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RI Total Investigation:</td>
</tr>
</tbody>
</table>

Note:

1 – Acreage represents 6,803 acres of Castner Range (from GIS files) minus the known concentrated munitions use areas.

2 – Requires that no UXO are found to confirm hypothesis
RI Approach - MEC

- MRS Boundary
- Intermittent Stream
- High Anomaly Density - CMUA; No Investigation Performed
- High Anomaly Density - NCMUA; No Investigation Performed
- High Anomaly Density - Investigation Confirmed a NCMUA
- IAVS Transect
- WAA DGM Transect
- WAA DGM Lot converted to new DGM grid
- Analog Mag-and-Dig Transect
- DGM Grid
IAVS
Results

- MRS Boundary
- Intermittent Stream
- High Anomaly Density - CMUA; No Investigation Performed
- High Anomaly Density - NCMUA; No Investigation Performed
- High Anomaly Density - Investigation Confirmed a NCMUA
- IAVS Transect

MD - Projectiles
- 37mm Projectile
- 40mm Projectile
- 75mm Projectile
- Projectile frag

Other Munitions Debris
- Fragment
- Fuzes
- Grenade
Analog Transect Results

- MRS Boundary
- Intermittent Stream
- High Anomaly Density - CMUA; No Investigation Performed
- High Anomaly Density - NCMUA; No Investigation Performed
- High Anomaly Density - Investigation Confirmed a NCMUA
- Analog Mag-and-Dig Transect

**MD - Projectiles**
- 37mm Projectile
- 40mm Projectile
- 75mm Projectile
- Projectile frag

**Other Munitions Debris**
- Fragment
- Fuzes
- Grenade
- Mortar
New DGM Grids

- MRS Boundary
- Intermittent Stream
- High Anomaly Density - CMUA; No Investigation Performed
- High Anomaly Density - NCMUA; No Investigation Performed
- High Anomaly Density - Investigation Confirmed a NCMUA
- WAA DGM Lot converted to new DGM grid
- New DGM Grid
### RI MEC Finds

<table>
<thead>
<tr>
<th>Target ID</th>
<th>Location</th>
<th>MEC Found</th>
<th>MEC Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA - Surface</td>
<td>Grid 20</td>
<td>37mm High Explosive (HE) Projectile</td>
<td>Projectile</td>
</tr>
<tr>
<td>WAA-1441</td>
<td>Lot 8</td>
<td>M19A1 Rifle Grenade, White Phosphorus (WP)</td>
<td>Grenades</td>
</tr>
<tr>
<td>WAA-1735</td>
<td>Lot 9</td>
<td>40mm M81 Projectile still in cartridge</td>
<td>Projectile</td>
</tr>
<tr>
<td>WAA-0284</td>
<td>Lot 2</td>
<td>37mm HE Projectile</td>
<td>Projectile</td>
</tr>
<tr>
<td>WAA-0391</td>
<td>Lot 2</td>
<td>MK27 Point Detonating (PD) fuze</td>
<td>Fuze</td>
</tr>
<tr>
<td>G24-0003</td>
<td>Grid 24</td>
<td>60mm Mortar fuzed</td>
<td>Mortar</td>
</tr>
</tbody>
</table>
MEC Finds

Grid 20 on surface

WAA-0284

Target G24-0003

WAA-0391

WAA-1735

Target WAA-1441
RI Dig Results

MD - Projectiles
- 20mm Projectile
- 37mm Projectile
- 40mm Projectile
- 75mm Projectile
- Projectile frag

Other Munitions Debris
- Flares
- Fragment
- Fuzes
- Grenade
- Mortar
- Illumination
- Practice Mines (Land)
- Rockets
RI Dig Results - North
RI Dig Results - South

MRS Boundary
Intermittent Stream
High Anomaly Density - CMUA; No Investigation Performed
High Anomaly Density - NCMUA; No Investigation Performed
High Anomaly Density - Investigation Confirmed a NCMUA
Analog Transect
IAVS Transect
VAA DGM Transect
DGM Grid
MEC Find
MD - Projectiles
20mm Projectile
37mm Projectile
40mm Projectile
75mm Projectile
Projectile frag
Other Munitions Debris
Flares
Fragment
Fuzes
Grenade
Mortar
Illumination
Practice Mines (Land)
Rockets

0 0.2 0.4
Miles
RI and Historical MEC Finds

MRS Boundary
Intermittent Stream
High Anomaly Density - CMUA;
No Investigation Performed
High Anomaly Density - NCMUA;
No Investigation Performed
High Anomaly Density - Investigation
Confirmed a NCMUA

MD - Projectiles
- 20mm Projectile
- 37mm Projectile
- 40mm Projectile
- 57mm Projectile
- 75mm Projectile
- Projectile frag

Other Munitions Debris
- Flares
- Fragment
- Fuzes
- Grenade
- Mortar
- Illumination
- Practice Mines (Land)
- Rockets
RI and Historical MEC Finds - North
RI and Historical MEC Finds - Central
Munitions Density Estimate

MD - Projectiles
- 20mm Projectile
- 37mm Projectile
- 40mm Projectile
- 57mm Projectile
- 75mm Projectile
- Projectile frag

Other Munitions Debris
- Flares
- Fragment
- Fuzes
- Grenade
- Mortar
- Illumination
- Practice Mines (Land)
- Rockets

Munitions Density
- High: 1167
- Low: 0

* MEC locations are reported in the GIS, but not the WAA report, where only 1 MEC item is reported.
Munitions Density Estimate - Central

- Previous Surface Clearance Area
- Previous Subsurface Clearance Area
- 1998 CMS MEC Find
- 1998 UXB Removal Action
- MEC Find
- 2004 USAE Removal Action
- MEC Find
- 2010 WAA MEC Find *

* MEC locations are reported in the GIS, but not the WAA report, where only 1 MEC item is reported.
Munitions Density Estimate - South

* MEC locations are reported in the GIS, but not the WAA report, where only 1 MEC item is reported.
Revised CMUAs
## Revised CMUAs

<table>
<thead>
<tr>
<th>CMUA Location</th>
<th>Original Size (acres)</th>
<th>CMUA Expansion Size (acres)</th>
<th>Revised Size (acres)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>632.4</td>
<td>288.41</td>
<td>920.81</td>
<td>Four expansion areas and merged with CMUA12</td>
</tr>
<tr>
<td>4</td>
<td>119.6</td>
<td>81.07</td>
<td>200.67</td>
<td>Two expansion areas</td>
</tr>
<tr>
<td>6</td>
<td>24.5</td>
<td>26.0</td>
<td>50.5</td>
<td>One expansion area</td>
</tr>
<tr>
<td>8</td>
<td>8.8</td>
<td>73.7</td>
<td>82.5</td>
<td>One expansion area</td>
</tr>
<tr>
<td>10</td>
<td>17.5</td>
<td>97.5</td>
<td>115</td>
<td>Was not considered a CMUA in the QAPP based solely on WAA dig results.</td>
</tr>
<tr>
<td>12</td>
<td>23.2</td>
<td>-23.2</td>
<td>0.0</td>
<td>Now included in CMUA 1</td>
</tr>
<tr>
<td>22</td>
<td>0.0</td>
<td>28.37</td>
<td>28.37</td>
<td>New CMUA identified during RI</td>
</tr>
<tr>
<td>23</td>
<td>0.0</td>
<td>29.48</td>
<td>29.48</td>
<td>New CMUA identified during RI</td>
</tr>
<tr>
<td><strong>Sub-total:</strong></td>
<td><strong>826</strong></td>
<td><strong>601.33</strong></td>
<td><strong>1427.33</strong></td>
<td></td>
</tr>
<tr>
<td>NCMUA</td>
<td>5977.3</td>
<td>-601.33</td>
<td>5375.97</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>6803.3</strong></td>
<td><strong>0</strong></td>
<td><strong>6803.3</strong></td>
<td></td>
</tr>
</tbody>
</table>
MEC Recommendations

• CMUAs
  • Incorporate area of CMUA expansion boundaries

• NCMUA
  • Re-calculate the MEC density
  • Additional investigation not recommended; original hypotheses likely impossible to prove given large number of MEC found.
  • Recommend also including historical data to qualitatively determine residual MEC hazard.

• Revise CSM
Break
MC RI Program Elements

- Elements include:
  - Incremental Sampling Methodology (ISM)
  - Discrete sampling (soil, surface water, sediment)
  - Sampling associated with MEC
  - Phased approach to meet TCEQ delineation requirements
  - Based on ISM Demonstration Report
    - Lead, copper, zinc primary MC
    - Ecological receptors will likely drive assessment level
MC

- Explosives (USEPA Method 8330B)
  - Materials inside munitions
  - 16 separate constituents including TNT, RDX
- Metals (USEPA Method 6010B)
  - Small arms ammunition, munition casings
  - antimony, arsenic, beryllium, copper, lead, nickel, zinc
- Perchlorate (USEPA Method 6850)
  - Propellant used in rockets

Example of MC deposition
ISM Delineation – Phase I

- 149 Area-Wide Sample Locations
  - Within CMUAs identified prior to RI MEC data collection
  - 1-acre decision units
  - Separate mobilization to resample DU locations with laboratory QC issues for explosives

- Laboratory Analysis
  - Explosives, metals – all samples
  - Perchlorate – only samples collected near former rocket ranges
Phase 1 ISM Locations
ISM Results & Affected Property

• Plotted results of 2011/2012 Study and 2016 RI
  • Screened against:
    • Ecological benchmarks
    • Human Health Tier 1 PCLs ($^{\text{TotSoil}}_{\text{comb}}$)
    • Assumes $^{\text{GW}}$Soil pathway will be closed during Phase II

• Estimated Affected Property Areas
  • Results >Residential Assessment Level
    • Driven by ecological benchmarks
    • Some human health exceedances ($^{\text{TotSoil}}_{\text{comb}}$)
Phase II ISM Locations

- Identified Phase II Step Out Locations
  - Within newly identified CMUAs
  - To complete delineation of Affected Property Areas

- Phase II Locations Limited by:
  - Steep terrain in some areas
  - Range boundary to the north (separate RI planned)
  - Range boundary to the east (Highway 54 boundary)
Backstop Berms- Phase I

- 10 Berms Identified using LIDAR Data
- Discrete Soil Sampling
  - 2 samples per berm, three depth intervals (0-1’, 1-2’, 2-3’)
  - 4 samples at base of berm
  - Laboratory analysis for metals
Phase I Berm Results & Phase II Locations

- Four berms had sample results above assessment level
- Lead was the only metal exceeding
- One lead result (Berm 1) exceeded human health
  \[ \text{Tot}_{\text{Soil}_{\text{comb}}} \text{ PCL} \]
- Phase II sampling will be performed to:
  - Delineate lead
  - Have a sufficient number of results to perform statistical comparisons to the PCL
Berm Results and Phase II Locations

Berm Phase I Results and Proposed Phase II Sample Locations

Legend
- MRS Boundary
- Berm
- Intermittent Stream
- Canal/Ditch
- OB/OC Area
- All Metals Below Assessment Level
- One or more metals >= Ecological Screening Level and < Residential Tier 1 Soil comb; PCL
- Lead Sample

SS-B50 Sample Location (15.2) Lead Result (mg/kg)

CMUA = Concentration Munitions Use Area
Red text indicates exceedences.

Data Sources: ESRF, ArcGIS Online, US Topo
Coordinate System: UTM Zone 13N
Datum: NAD 63
Units: Meters
Arroyo Sampling - Phase I

- Arroyo Soil Delineation
  - Provides information on MC transport from steep areas
  - 52 discrete sediment sample locations in depositional areas
    - Samples collected from 0-6” in depth
    - If located in CMUA, samples collected at 0-6” and 12-18”
    - Analyzed for metals

- Surface Water Samples
  - Two events: dry weather and wet weather performed in Phase I
  - Seep sampling
    - 18 locations targeted; 4 locations contained water
    - Samples analyzed for metals
  - Arroyo surface water samples – 6 locations targeted
    - Dry event and 48 hours after rain event: No water present in arroyos
Planned Surface Water and Sediment Sampling Locations

Surface water samples will be collected in areas of flowing or pooling water to be determined in the field. It is believed that only 30% of the potential seep locations are actually seeps. Only accessible seeps will be sampled.
Surface Water Sampling Types

Arroyo Sampling Location (dry)  Seep Sampling Location
Phase I Sediment Results

- Arsenic, Nickel, and Zinc exceeded Ecological Screening Levels ("benchmarks")
- Arsenic exceeded human health $^{\text{Tot}}\text{Soil}_{\text{comb}}$ at two locations
- Results for the two locations at the downgradient Range boundaries were less than screening levels
- Phase II sampling will be performed for Zinc and Arsenic
Phase I Sediment Results & Phase II Locations

Closed Castner Firing Range MRS
Fort Bliss, TX

Phase I Arroyo Soil Results and Proposed Phase II Locations

Legend
- MRS Boundary
- Revisited CMUA
- CMUA Prior to RI Field Investigation - MC Investigation Performed
- NCMUA Prior to RI Field Investigation - No MC
- Potential CMUA - MC Investigation Performed
- NCMUA - No MC Investigation Required
- Intermittent Stream
- Canal/Ditch
- Proposed Phase II Sediment Sample (21 total)

Sediment Sample (0-6”)
- All Metals Below Assessment
- One or more metals >= Ecological Benchmark and >= Residential Tier 1 Tot Soil comb PCL
- One or more metals >= Residential Tier 1 Tot Soil comb PCL

Sediment Sample (12-18”)
- All Metals Below Assessment
- One or more metals >= Ecological Benchmark and >= Residential Tier 1 Tot Soil comb PCL
- One or more metals >= Residential Tier 1 Tot Soil comb PCL

CMUA = Concentration Munitions Use Area

Data Sources: ESRI, ArcGIS Online, Aerial Imagery
Coordinate Systems: UTM, Zone 13N
Datum: NAD 83
Units: Meters
Surface Water Results

- No water was present in the arroyos during the dry sampling event or 48 hours after the rain event.
- Of the potential seep locations, four contained sufficient water for sampling.
- Metals results compared to Freshwater $^{SW}$RBELs.
- Only one sample had a result above the screening level.
  - Dissolved copper exceeded Freshwater Chronic Aquatic Life $^{SW}$RBEL.
  - Water was only present at this location during the wet event; so acute criteria apply. The single exceedance will be handled in the risk assessment.
Phase I Seep Results
Soil to Groundwater Pathway - Phase II

• Vertical delineation
  • Discrete borings in 3 DUs with highest lead concentration
    • BF052 (lead 1,520 mg/kg)
    • CN073 (lead 1,320 mg/kg)
    • DG070 (lead 5,030 mg/kg)
  • 3 Borings per DU to depth of 20 feet
    • Locations determined based on field screening for lead with XRF
    • 3 depth intervals sampled (0-0.5 inches bgs, interval with the highest XRF results, and the bottom of the boring)
    • If XRF result from bottom of boring exceed background, boring will be advanced an additional 10 feet
Phase II Boring Locations

Closed Gastner Firing Range MRS
Fort Bliss, TX

Proposed Phase II Boring Locations

Legend

- Proposed Phase II Boring Locations
- MRS Boundary
- Revised CMUA
- CMUA Prior to RI Field Investigation - MC Investigation Performed
- NCMUA Prior to RI Field Investigation - No MC Investigation Performed
- Potential CMUA - MC Investigation Required
- OIB/OD Area
  - All Metals Below Assessment Level
  - One or more metals => Ecological Screening Levels and < Residential Tier 1 Tot Soil comb PCL
  - One or more metals => Residential Tier 1 Tot Soil comb PCL

Data Sources: ESRI ArcGIS Online, Aerial imagery
Coordinate System: UTM Zone 14N
Datum: WGS 84
Projected: Albers Equal Area Conical
Contact: WWDFW 505-699-0380
Date: Winter 2016
Soil to Groundwater Pathway - Phase II

- $^{GW}$Soil PCL Determination
  - Collect samples for remaining Tier 2 parameters during Phase II
    - pH collected during Phase I
    - SPLP analyses performed on Phase I samples

- Groundwater Assessment
  - Groundwater Assessment performed only if necessary based on vertical delineation results
  - Groundwater Assessment, if necessary, performed in Phase III
  - If refusal encountered in Phase II borings, $^{GW}$Soil Pathway will be considered incomplete
RI Report

• Document and evaluate data (both MEC and MC findings)
• Update CSM
• Report on nature and extent of MEC and MC
• Prepare HHRA and SLERA
• Prepare MEC Hazard Assessment
• Update MRSPP

Conclusions of the RI Report provide the foundation to develop remedial alternatives during a future Feasibility Study
Upcoming Project Schedule

- Phase 2 MC Field Work: January / February 2017
- RAB Meeting: ~ April 2017
- TPP Meeting #4: ~ April 2017
- Draft RI Report: ~ May 2017
- Draft Final RI Report: ~ August 2017
- Public Meeting: ~ July / August 2017
TPP Comments

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Directorate of Public Works
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915-568-7031
Questions?