

*DUGWAY PROVING GROUND*

# Technical Review Committee

- Project Update
  - Consent Order Sites
  - RCRA Facility Investigation (RFI)

*February 2000*



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## Technical Review Committee - Consent Order Sites

- **HWMU 2 - 2 trenches, majority of waste removed in 1993**
  - **Closure Activities - fill and cap trenches and excavate contaminated soil (arsenic and dioxin/furans) outside the trench area**
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP**
      - Submit Final Cap Design & RAP**
      - UDEQ Approval of Design and RAP**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Recommend Future Maintenance & Monitoring Requirements**
      - Enter Post Closure Phase**



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## **Technical Review Committee - Consent Order Sites**

**HWMU 2 Site Photo - Both Trenches and Soil Mound**



February 2

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## Technical Review Committee - Consent Order Sites

- **HWMU 7 - Concrete pad used to evaporate spent brine solutions from decontamination procedures**
  - **Closure Activities - Remove ABP contaminated concrete pad and 55-gallon drum, perform confirmation sampling**
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit Draft Work Plan to USACE and DPG**
      - Submit Pre-Final Work Plan to UDEQ**
      - Submit Final Work Plan**
      - UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Remove from RCRA Permit**



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## Technical Review Committee - Consent Order Sites

- **HWMU 9** - 2.5-acre site with metallic objects under the surface (on-hold until UXO pile is disposed of)
  - **Closure Activities** - place soil and HDPE liner cap over the site
    - ☐ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP
      - Submit Final Cap Design & RAP
      - UDEQ Approval of Design and RAP
      - Start Field Work
      - Revise Risk Assessment
      - Submit Field Report
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## Technical Review Committee - Consent Order Sites

- **HWMU 14** - consists of 1 trench, primarily used for munitions disposal, decontamination, and demilitarization, contains UXO surrounding trench
  - **Closure Activities** - fill and cap area with magnetic anomalies
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP**
      - Submit Final Cap Design & RAP**
      - UDEQ Approval of Design and RAP**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
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# **Technical Review Committee - Consent Order Sites**

## **HWMU 14 Site Photo - Main Trench**



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## Technical Review Committee - Consent Order Sites

**HWMU 14 Site Photo - UXO Disposal Action unearthed more UXO**



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## Technical Review Committee - Consent Order Sites

- **HWMU 33 - Baker Sewage Lagoon**
  - **Closure Activities - remove sludge and concrete spillway, level berms, re-vegetate area**
    - ▣ **Submit Closure Proposal to UDEQ and the Public**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ☑ **UDEQ Approval of Final Work Plan**
    - Start Field Work**
    - Revise Risk Assessment**
    - Submit Field Report**
    - Recommend Future Monitoring Requirements**
    - Remove from RCRA Permit**



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## **Technical Review Committee - Consent Order Sites**

**HWMU 33 Site Photo - Baker Sewage Lagoon**



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## Technical Review Committee - Consent Order Sites

- **HWMU 34 - Baker Boiler House Sump**
  - **Closure Activities - excavate approx. 100 cubic yards of sludge, fill and re-grade area**
    - ▣ **Submit Closure Proposal to UDEQ and the Public**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ▣ **UDEQ Approval of Final Work Plan**
    - ▣ **Start Field Work**
    - ☑ **Revise Risk Assessment**
      - Submit Field Report**
      - Remove from RCRA Permit**



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## Technical Review Committee - Consent Order Sites

- **HWMU 36 - Ditto Imhoff Tank**
  - **Closure Activities - fill tank with pea gravel, remove sludge drying bed and interconnecting piping, additional samples in the ditch**
    - ▣ **Submit Closure Proposal to UDEQ and the Public**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ☑ **UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Recommend Future Monitoring Requirements**
      - Remove from RCRA Permit**



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**Technical Review Committee - Consent Order Sites**

**HWMU 36 Site Photo - Imhoff Tank & Pump House Foundation**



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## **Technical Review Committee - Consent Order Sites**

**HWMU 36 Site Photo - Tank and Sludge Drying Bed**



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## **HWMU 36 Site Photo - Ditch leading to Drain Field**



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# **Technical Review Committee - Consent Order Sites**

- **HWMU 37 - Ditto Landfill, 32-acre site with numerous trenches, waste include laboratory and UXO**
  - **Closure Activities - cap trenches and excavate dioxin contaminated soil outside the trench areas (possible variance to not cap site)**
    - ☐ **Submit Closure Plan to UDEQ**
    - ☐ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
    - ☑ **Submit 60% Cap Design & RAP**
    - Submit Final Cap Design & RAP**
    - UDEQ Approval of Design and RAP**
    - Start Field Work**
    - Revise Risk Assessment**
    - Submit Field Report**
    - Recommend Future Monitoring Requirements**
    - Enter Post Closure Phase**



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# Technical Review Committee - Consent Order Sites

## HWMU 37 Site Photo - General Site with Soil Mound in Background



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## Technical Review Committee - Consent Order Sites

- **HWMU 38 - Ditto Decontamination Pad**
  - **Closure Activities - some additional characterization remaining for both soil and groundwater, may meet industrial risk assessment**
    - ☑ **Submit Closure Proposal to UDEQ and the Public**
      - Submit Draft Work Plan to USACE and DPG**
      - Submit Pre-Final Work Plan to UDEQ**
      - Submit Final Work Plan**
      - UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Recommend Future Monitoring Requirements**
      - Remove from RCRA Permit**



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## Technical Review Committee - Consent Order Sites

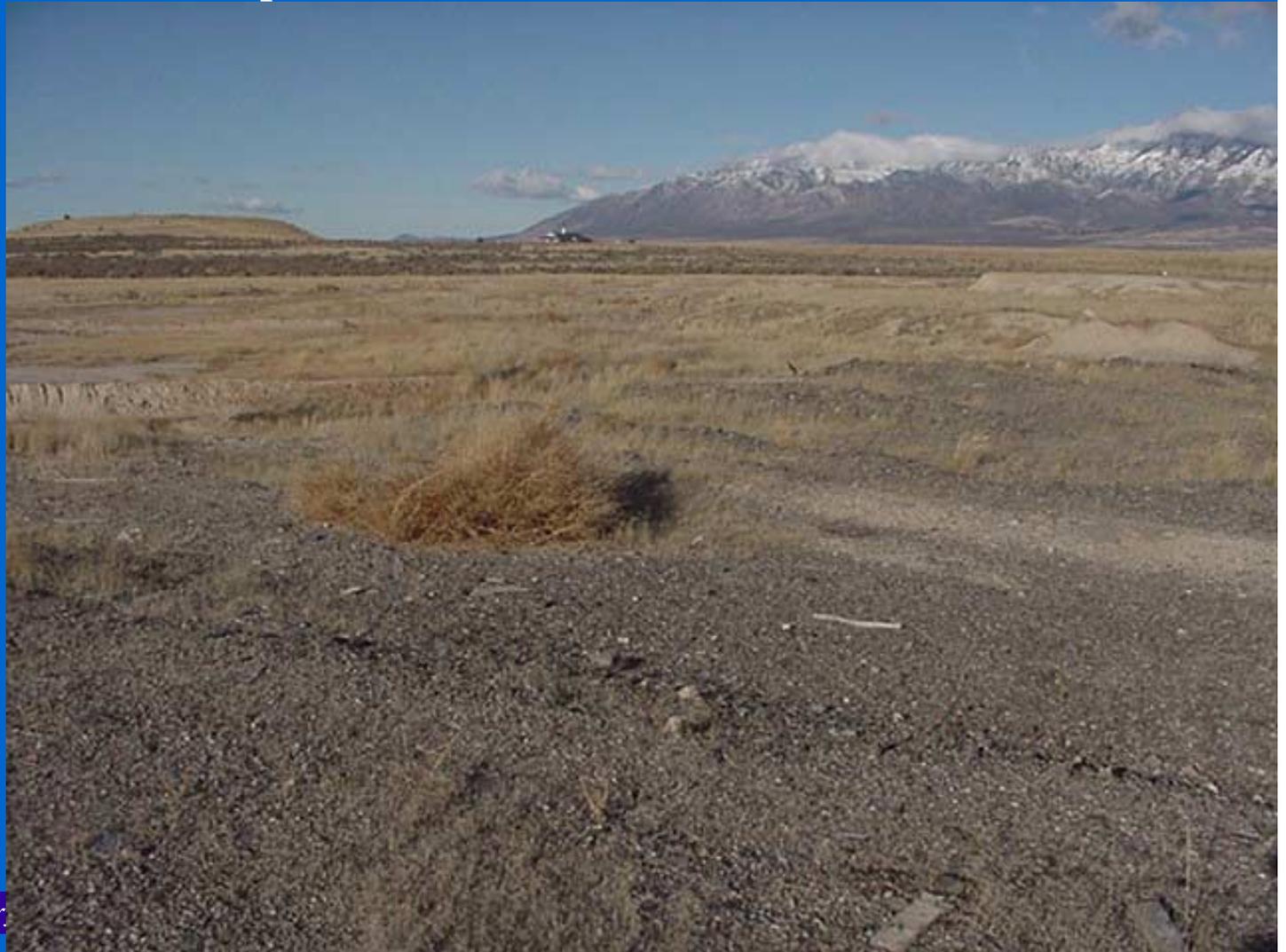
- **HWMU 42 - Contractor's Landfill in English Village**
  - **Closure Activities - identify landfill boundary and place soil cap over the waste (boundary investigation in 4/00)**
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP**
      - Submit Final Cap Design & RAP**
      - UDEQ Approval of Design and RAP**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
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## **Technical Review Committee - Consent Order Sites**

**HWMU 42 Site Photo - Asphalt Debris**



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## Technical Review Committee - Consent Order Sites

- **HWMU 43 - 70-acre Landfill in English Village**
  - **Closure Activities - place soil cover over more than 20 trenches in the landfill**
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP**
      - Submit Final Cap Design & RAP**
      - UDEQ Approval of Design and RAP**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Recommend Future Maintenance & Monitoring Requirements**
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## **Technical Review Committee - Consent Order Sites**

**HWMU 43 Site Photo - Typical Trench**



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## Technical Review Committee - Consent Order Sites

- **HWMU 47 - Sewage Lagoons South of Fries Park**
  - **Investigation Activities - Complete nature and extent of contamination investigation in 2 lagoons and drainage area**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ☑ **UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Evaluate Risk Assessment**
      - Evaluate Remedial Alternatives**
      - Submit Nature and Extent Report**



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## **Technical Review Committee - Consent Order Sites**

**HWMU 47 Site Photo - East Lagoon**



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- **HWMU 48 - Fries Park 3X Metal Storage Area**
  - **Closure Activities - Excavate and dispose of PCB contaminated soil (some ABP contamination also)**
    - ▣ **Submit Closure Plan to UDEQ**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ☑ **Submit Final Work Plan**
      - UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Revise Risk Assessment**
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## Technical Review Committee - Consent Order Sites

- **HWMU 55 - Old 3X Disposal Site East of Carr Facility**
  - **Closure Activities - complete nature and extent investigation, SVE pilot study**
    - ▣ **Submit Closure Plan to UDEQ**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ☑ **Submit Final Work Plan**
      - UDEQ Approval of Final Work Plan**
      - Start Field Work**
      - Revise Risk Assessment**
      - Submit Field Report**
      - Evaluate SVE System**
      - Design Soil Cover**



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## Technical Review Committee - Consent Order Sites

- **HWMU 63-2 - Carr Facility Septic Tank and Leachfield**
  - **Closure Activities - additional soil samples in the leachfield, sample bottom of septic tank, and re-evaluate risk assessment**
    - ▣ **Submit Closure Plan to UDEQ**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ☑ **UDEQ Approval of Final Work Plan**
    - Start Field Work**
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## Technical Review Committee - Consent Order Sites

- **HWMU 90 - Carr Open Burning Area**
  - **Closure Activities - cap 3 trenches, UXO concern at this site**
    - ▣ **Submit Closure Plan to UDEQ**
    - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
      - Submit 60% Cap Design & RAP**
      - Submit Final Cap Design & RAP**
      - UDEQ Approval of Design and RAP**
      - Start Field Work**
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## Technical Review Committee - Consent Order Sites

- **HWMU 128 - Pesticide Storage Building, Septic Tank, and Leachfield**
  - **Closure Activities - additional soil samples in the leachfield, remove waste from septic tank, re-evaluate risk assessment**
    - ☐ **Submit Closure Plan to UDEQ**
    - ☑ **Submit Draft Work Plan to USACE and DPG**
      - Submit Pre-Final Work Plan to UDEQ**
      - Submit Final Work Plan**
      - UDEQ Approval of Final Work Plan**
      - Start Field Work**
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## Technical Review Committee - Consent Order Sites

HWMU 128 Site Photo - Pesticide Building and Septic Tank



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## Technical Review Committee - Consent Order Sites

- **HWMU 130 - English Village Gas Station Sump and Drain Field**
  - **Closure Activities - Sump and drain line investigated and removed, soil sampling in drain field area south of road**
    - ▣ **Submit Closure Plan to UDEQ**
    - ▣ **Submit Draft Work Plan to USACE and DPG**
    - ▣ **Submit Pre-Final Work Plan to UDEQ**
    - ▣ **Submit Final Work Plan**
    - ☑ **UDEQ Approval of Final Work Plan**
    - Start Field Work**
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## Technical Review Committee - Consent Order Sites

- **Groundwater Monitoring**
  - 15 sites (approx. 80 wells) currently being monitored on a semi-annual basis
  - HWMUs 2, 14, 33, 36, 37, 38, 39, 42, 43, 47, 51, 55, 58, 90, 128

