

Headquarters U.S. Air Force

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Arctic Surplus Salvage Yard Response Complete Report Pending Delisting Actions



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February 2004



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Presentation Overview

- **Background**
- **Proposed Remedial Action**
- **TEAM Description**
- **Remedial Action Status**
- **Summary**





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Background

- Estimated 8,500 yd³ of PCB and Lead contaminated soils caused by battery and transformer processing
- <10 yd³ of pesticide and dioxin contaminated soils
- Over 45,000 yd³ of scrap materials present at the site
- Numerous waste drums, 5000 yd³ of tires, transformers, 83 trailers and >400 pressurized gas cylinders
- Old military landfill located at the site
- Site listed on NPL in 1990





Originally Proposed Remedial Action

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- ROD selected solvent extraction for PCB contaminated soils and stabilization for lead contaminated soils
- Estimated 3-4 years for completing RA at costs from \$34 to \$38M
- Performance-Based Environmental Restoration Management Assessment (PERMA) conducted at the site in June 2002. Recommended stabilization and on-site placement of PCB and Lead contaminated soils



- **Remedial Process Optimization (RPO) estimated RA to be completed in < 2 years at a cost of \$3.6M**



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PERMA & RPO TEAM

- HQ Defense Logistics Agency
- Defense Reutilization Marketing Service
- HQ Air Force Center for Environmental Excellence
- US Environmental Protection Agency
- Alaska Department of Environmental Conservation
- Contractors
 - Mitretek
 - Earth Tech



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Remedial Action Status

- Conducted treatability studies in Sept – Nov 2002 to demonstrate viability of proposed stabilization process
- Obtained funding from the US ARMY - \$2.5M
 - Times and materials contract awarded in September 2002
 - ◆ Clear terrain
 - ◆ Separate and decontaminate scrap
 - ◆ Identify and separate expended munitions and potential unexploded ordnance
 - Field activity initiated in October 2002



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Remedial Action Status (Cont.)

- Awarded Firm Fixed Price Task Order in March 2003
 - Stabilization/solidification of contaminated soils
 - On-site placement of up to 8,500 yd³ of soils in landfill
 - 5 years of O&M
 - Costs negotiated at \$3.45M
- Started field work in May 2003
- Completed Explanation of Significant Differences (ESD) and held public meeting in June 2003
- Completed stabilization of 10,000 yd³ of soils
- Placed soils in new landfill cell by Aug 2003



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Remedial Action Status (Cont.)

- Completed landfill and multilayered cap construction by October 2003
- Excavated 100 yd³ of PCB “hot spots” and 10 yd³ PCB/Dioxin soils for off-site disposal
- Off-site disposal completed in December 2003.
- Remedial Action completed in 7 months
- No cost increases for additional soil stabilization or off-site disposal



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Remedial Action Status (Cont.)

- Regulatory agencies appreciated prompt execution of site cleanup
- Institutional Controls agreements with site owners signed in October 2003
- Administrative Order of Consent (AOC) signed with US EPA in December 2003
- Analytical data undergoing USEPA Staged Electronic Data Deliverable implementation
- Currently developing NPL delisting strategy
- Anticipate US EPA approval on delisting by Sept 2005





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Other Waste Materials

- Inspected scrap materials for expended munitions
- Scanned scrap for radiation
- Transferred over 65,000 yd³ of scrap to local recycler
- Disposed waste drums, gas cylinders, trailers and transformers in accordance with state and federal regulations
- Gas cylinders containing CFCs (Freon) transferred to Defense Supply Center Richmond for recycling





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Expended Munitions (EM)

- EM materials discovered at the site in Sept 2002. EM DEMIL started in November 2002 and is ongoing
- Over 98,000 units of EM materials removed to date
- Over 50 types of EM materials identified
- DEMIL EM materials disposed to local landfill to avoid future liability
- 19 live primers identified and disposed by Eielson AFB Explosive Ordnance Disposal (EOD) personnel. Over 330 energetic items (frag. bombs) identified and disposed
- EM DEMIL to be completed by Feb 2004. Geophysical verification survey to be completed in March 2004





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Radiation Wastes

- Radiation wastes discovered during EM DEMIL operations
- Over 10 types of radiation items identified including instrument check sources and vehicle dials
- Site cleared of radiation wastes
- Geosurvey for EM materials up to 4 feet below ground surface to be completed Mar 2004





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ASSY Remediation Progress



June 02



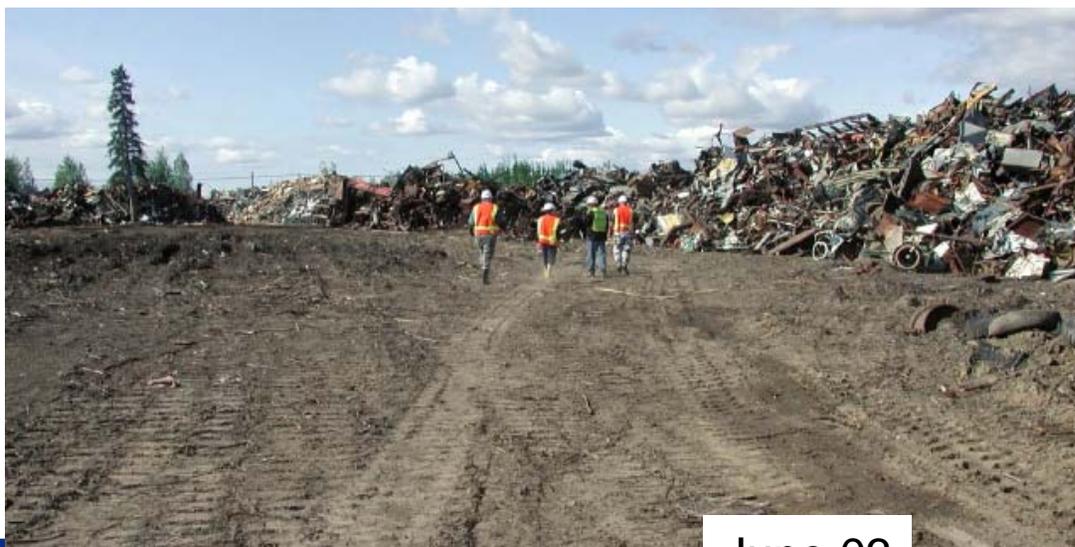
Oct 02



Feb 03



Feb 03



June 03

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Remediation Complete – Celebration



PCB/Lead RA Complete 6 October 2003



**Regulators
Contractors
Emergency Service Personnel
Local Residents
Site Owners
Eielson AFB, AFCEE, DLA & DRMS**

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Institutional Controls Complete



16 December 2003



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Summary

- ADEC Refers to Arctic Surplus as a MODEL to follow for environmental cleanup
 - Team work and trust
 - Regulatory involvement from planning stages
 - First application of Performance-Based Environmental Management Assessment (PERMA)
 - Open and frequent communication
 - Real-time document reviews by all stakeholders
 - Model presently being followed at Galena AFB, King Salmon AFB, and Defense Supply Center Richmond