



Munitions Response Services (MRS)
MEC Clearance, Former Adak Naval Air Facility
Adak, Alaska

**Environment, Energy & Sustainability
Symposium & Exhibition**

May 2009

George Spencer, USA Environmental, Inc.

Program Manager

gspencer@usatampa.com, (813) 343-6358

Report Documentation Page

*Form Approved
OMB No. 0704-0188*

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE MAY 2009	2. REPORT TYPE	3. DATES COVERED 00-00-2009 to 00-00-2009			
4. TITLE AND SUBTITLE Munitions Response Services (MRS) MEC Clearance, Former Adak Naval Air Facility Adak, Alaska		5a. CONTRACT NUMBER			
		5b. GRANT NUMBER			
		5c. PROGRAM ELEMENT NUMBER			
6. AUTHOR(S)		5d. PROJECT NUMBER			
		5e. TASK NUMBER			
		5f. WORK UNIT NUMBER			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) USA Environmental, Inc, 720 Brooker Creek Boulevard Suite 204, Oldsmar, FL, 34677		8. PERFORMING ORGANIZATION REPORT NUMBER			
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)			
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)			
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 4-7 May 2009 in Denver, CO.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 17	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



PRESENTATION OBJECTIVES



- **MRS Challenges at a remote location**
- **Logistical, Transportation & Operational challenges**
 - **Logistics**
 - **Infrastructure**
 - **Resupply**
- **Environmental challenges**
 - **Weather**
 - **Terrain**
 - **Operations**
- **Lessons learned**
- **Questions**



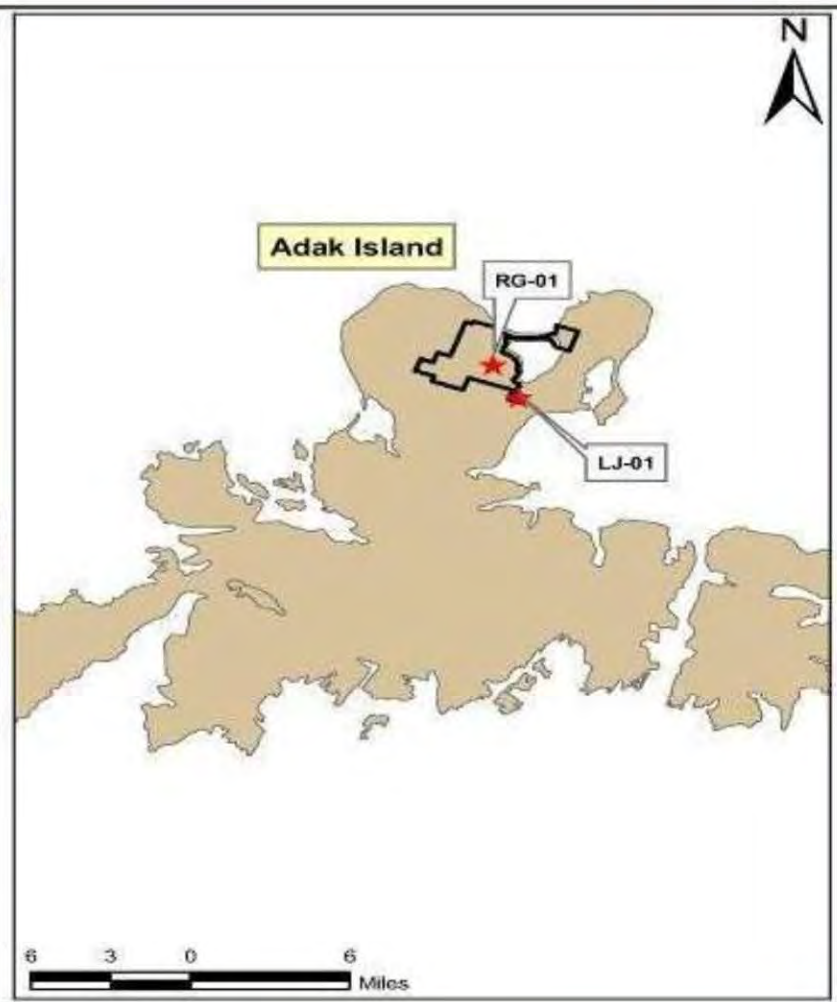
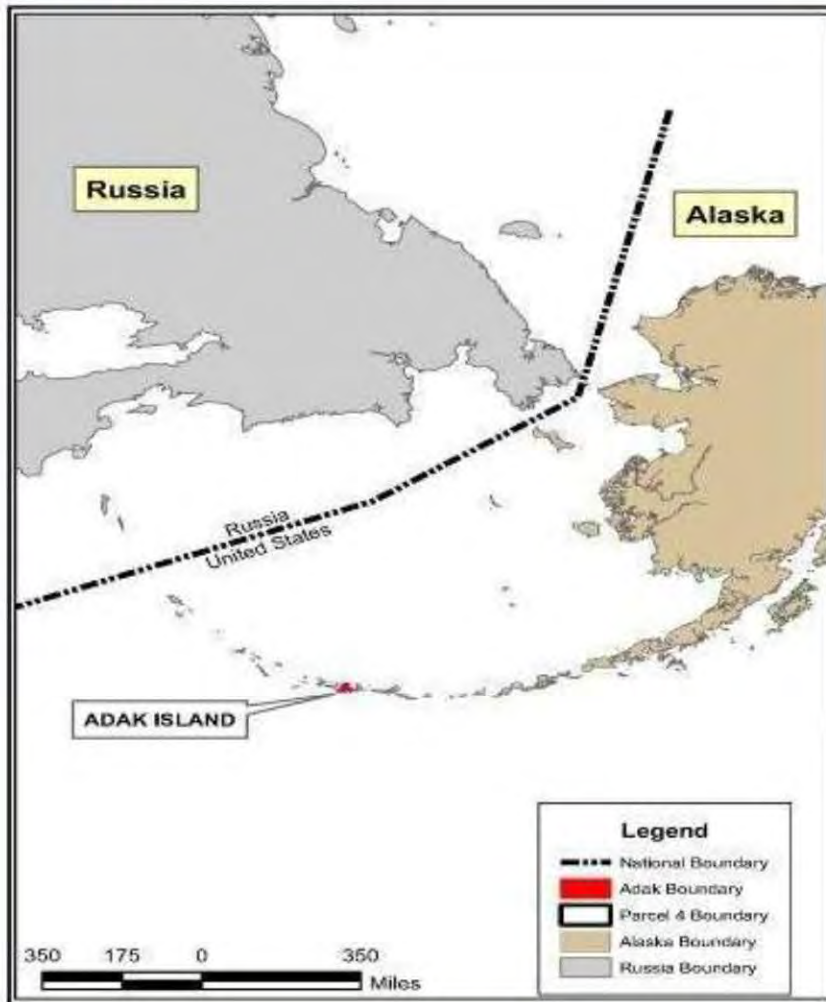
Background



- **Navy Munitions Response Contract (MRC) for Worldwide Sites**
 - **Remedial Action for MRS Rifle Grenade Range RG-01 to 2-feet (analog & DGM)**
 - **Remedial Action and AOC Certification for MRS Lake Jean LJ-01 to 4-feet (DGM)**
 - **Remedial Investigation/Feasibility Study (RI/FS) DGM of 24 sites in Operating Unit (OU) B-2 in Parcel 4**



Location





Transportation



- Explosives, vehicles & Equipment by barge
- Regular barge twice monthly to Dutch Harbor
- Charter to Adak with 2-3 weeks advance notice
- Airline service (half passenger/half cargo) twice weekly (weather & volcanoes permitting)





Infrastructure



- Former Navy military housing (2 bedroom, 2 ½ bath)
- Limited food service
- Limited expendable sundries & supplies (costly)
- Vehicles are Rent-a-Wrecks left behind from the Navy (also costly)
- High costs for fuel





Climate & Geology



- Average annual mean temperature 50 degrees Fahrenheit
- Average wind velocity is 12 knots with 50+ knot winds frequently in summer
- Rain and mist most days
- Highest elevation is Mount Moffett (3,875 feet)
- Few trees and mainly tundra over volcanic rock ranging from a few inches to several feet thick
- Wet and flooding in lower areas due to snowmelt from the mountains





Terrain & Vegetation



- Varied terrain with limited roads and trails access
- Lowlands are crisscrossed with runoff streams and standing water
- Most site access is by foot and all terrain vehicle (ATV)
- Tundra grass height ranges from 1-4 feet





ATV



USA Environmental, Inc.



ATV



USA Environmental, Inc.



Vegetation & Weather



- Vegetation ranges in height from several feet to bare ground
- Most days on site were either raining, misty or a combination of both
- Foul weather gear is a must





Analog Operations



- Due to hazardous items (40mm Grenades) all initial entry and intrusive operations were in protective gear



- Footing on slopes with protective gear was tenuous





Protective Ensemble



USA Environmental, Inc.



DGM Operations



- Digital Geophysical Mapping (DGM) was performed using an EM-61 in the “stretcher mode” due to uneven terrain



- Steep terrain was also a challenge for DGM teams





Scrap Processing



- All munitions debris required certification and verification as 5X prior to off-site shipment for final demilitarization and disposal

- Adak has no sources for propane to operate the Thermal Flashing Unit (TFU)





Lessons Learned



- Plan ahead for Barge shipments. While advertized trip is 16 days from Seattle, actual time in route was 22 days.
- Plan for hazardous cargo, such as explosives and propane, that cannot go on passenger airlines for barge shipment. Estimate your requirements then double them as charter flights are expensive.
- Do ship all anticipated expendables and repair parts (such as truck tires, spare electronics, batteries, etc.) otherwise equipment is down waiting for next air cargo.
- Do not assume that there will always be two flights per week.
- Do have available a checkbook and credit card (MasterCard/Visa) as cash is scarce on Adak.
- Take your fishing gear as it's the only recreational activity on island



Questions?