

# AGENDA

## ADAK RESTORATION ADVISORY BOARD

Wednesday, 24 May 2017

**12:00 pm Adak: Reeve's High School Conference Room**  
**1:00 pm Anchorage: ADEC Office and via Teleconference**

**Toll free dial-in number (U.S. and Canada): 1-844-712-3247; Access Code – 595 494 183**

<u>Adak Time</u>	<u>Agenda Topic</u>	<u>Speaker\Lead</u>
12:00 pm	Welcome and Introductions	Esther Bennett, Community Co-Chair Chris Generous/Justin Peach, Navy Co-Chair
	Approve Minutes From 19 October RAB Meeting, including a review of action items	RAB Members
	Munitions Program Update	Chris Generous/Justin Peach, Navy Doug Schicho, CB&I
	Petroleum Update, Free Product Recovery, Long Term Monitoring, Marine Monitoring, Five-Year Review	Chris Generous/Justin Peach, Navy and Doug Schicho, CB&I
	Community Report/New RAB Member Discussion/Comments	Esther Bennett, Community Co-Chair
	Review New Action Items	Navy Co-Chair, All
	Preliminary Agenda for Next Meeting; Distribution Sequence and Materials Prior to RAB - Set Date for Next RAB	Navy Co-Chair, All

# Former Naval Air Facility

## Adak Island, Alaska

NAVFAC SW EMAC II

N62473-12-D-2005, JP01 and JP02

RAB MEETING

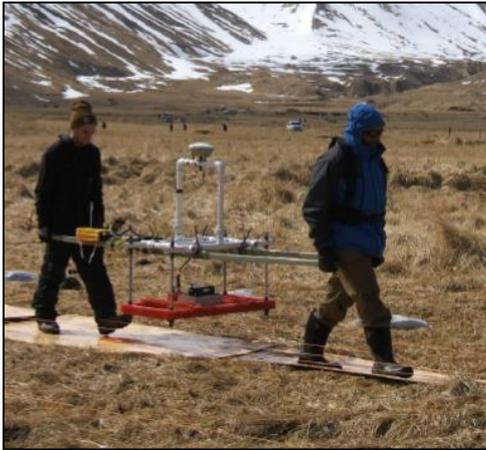
MAY 2017



- JP01 - Operable Unit B-2 NTCRA – MEC Removal
  - Overview of Process
  - 2017 Season
- JP02 - Petroleum Contaminated Soil Removal at SWMU 62 and Building T-1451

# Operable Unit B-2 NTCRA MEC Removal

## Overview of Process



**Geonics EM-61  
Digital Geophysical  
Mapping (DGM)**

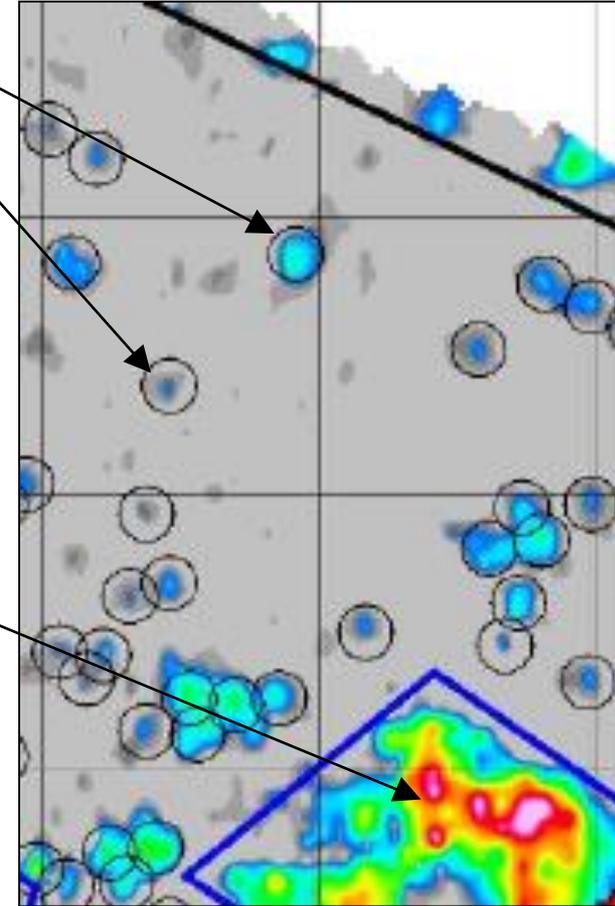


**Discrete  
Target  
Anomalies**

**High Amplitude  
Large Spatial  
Anomalies  
(HALSAs)**



**Munitions and  
Explosives of Concern  
(MEC)**





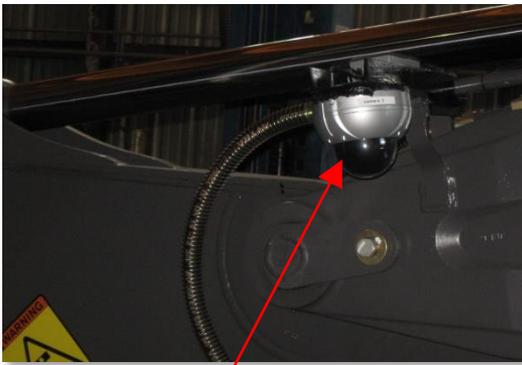
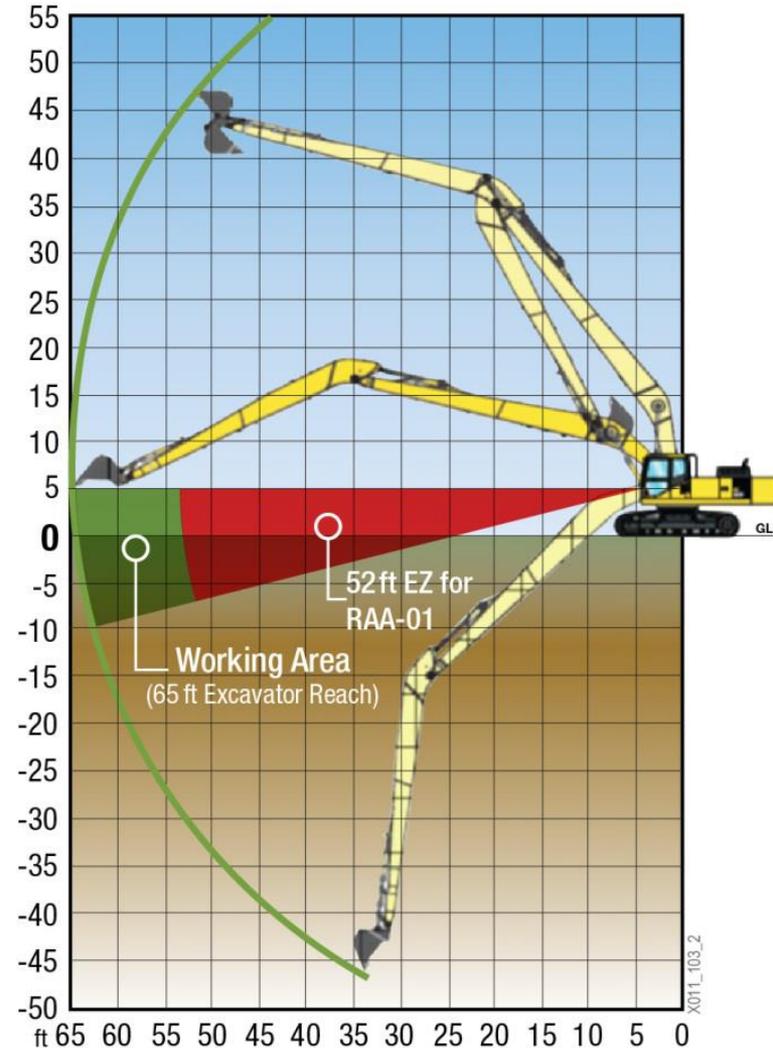
## Fragmentation Hazard



**Steel Plate to Protect Operator**

## Blast Overpressure

**Long reach to Protect Operator**

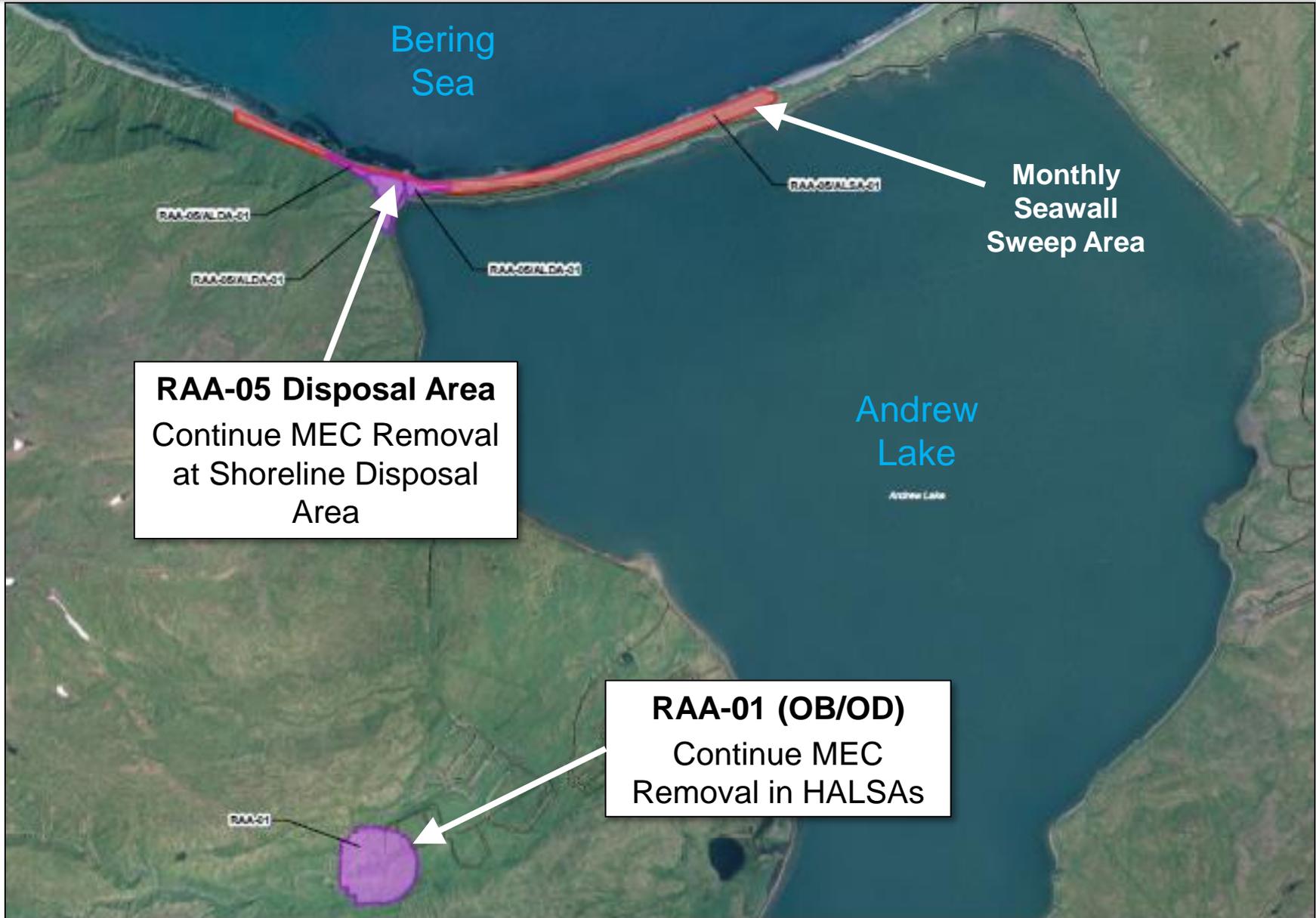


**Remote Cameras on boom and Video Display in Cab**





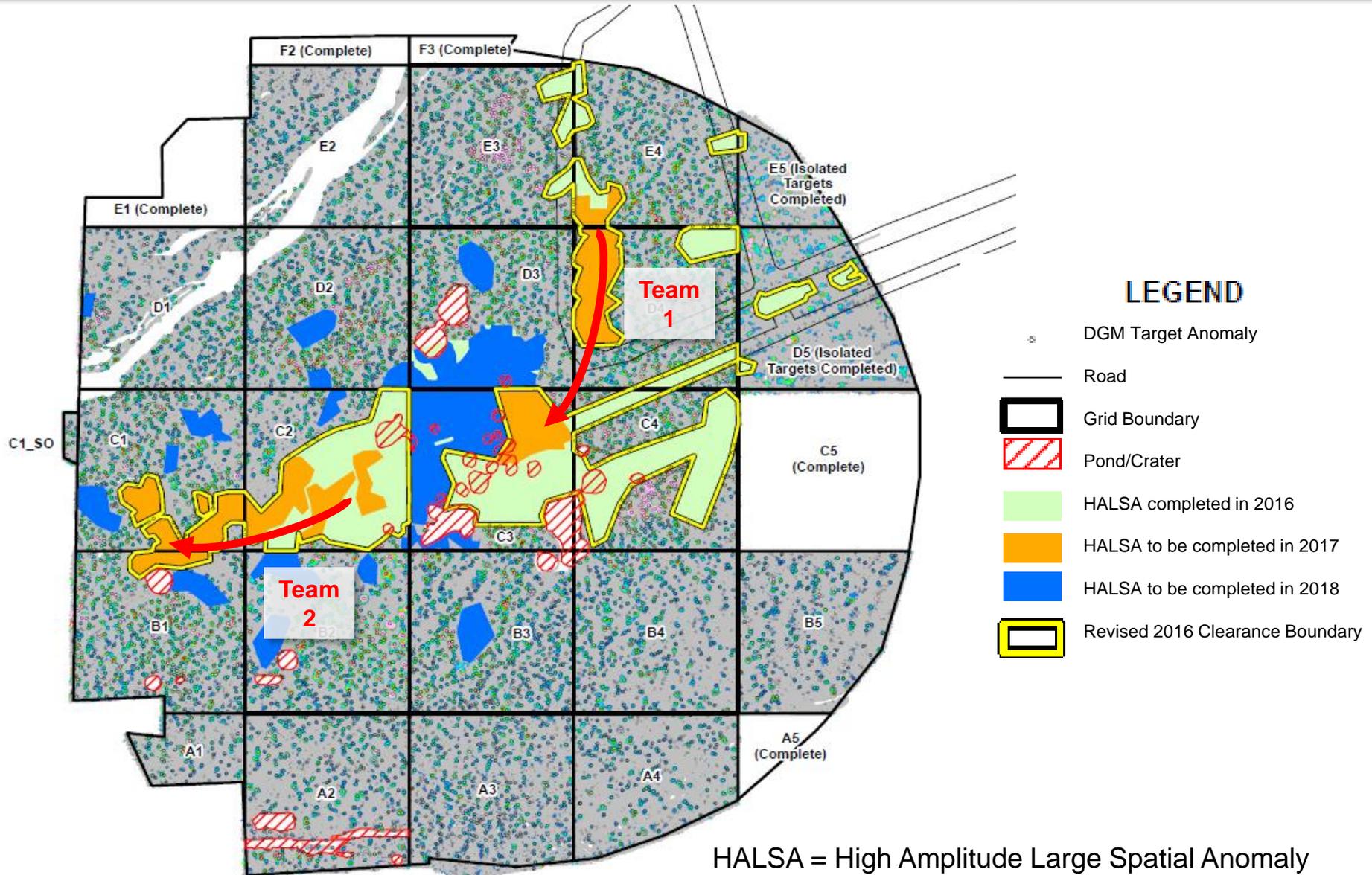
**Operable Unit B-2 NTCRA  
MEC Removal  
2017 Season**



**RAA-05 Disposal Area**  
Continue MEC Removal  
at Shoreline Disposal  
Area

**RAA-01 (OB/OD)**  
Continue MEC  
Removal in HALSAs





## LEGEND

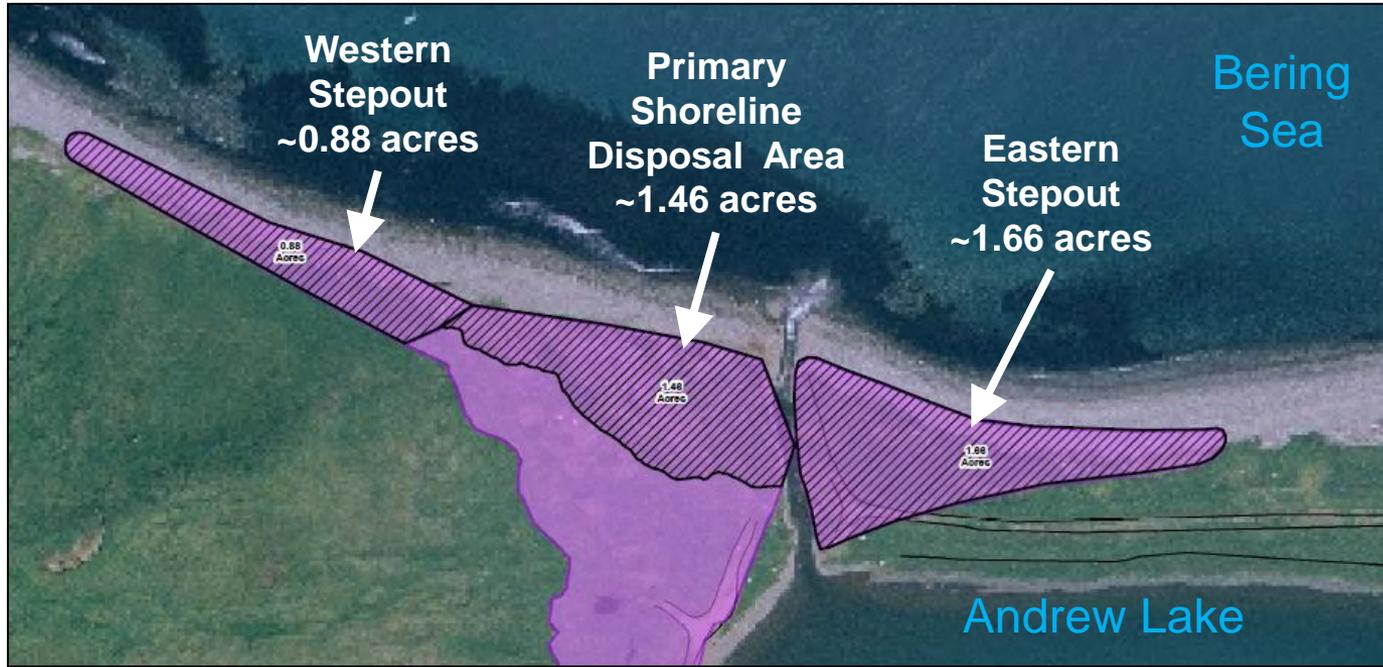
- DGM Target Anomaly
- Road
- Grid Boundary
- Pond/Crater
- HALSA completed in 2016
- HALSA to be completed in 2017
- HALSA to be completed in 2018
- Revised 2016 Clearance Boundary

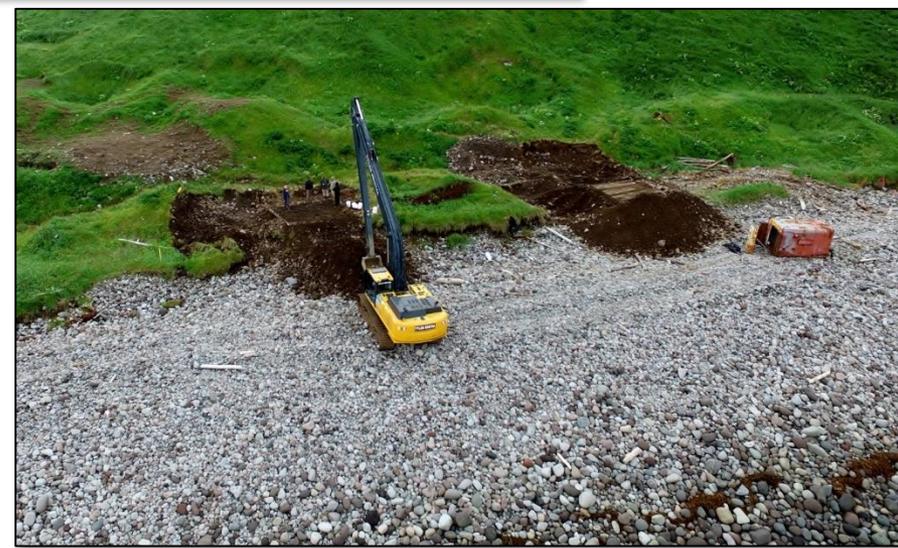
HALSA = High Amplitude Large Spatial Anomaly



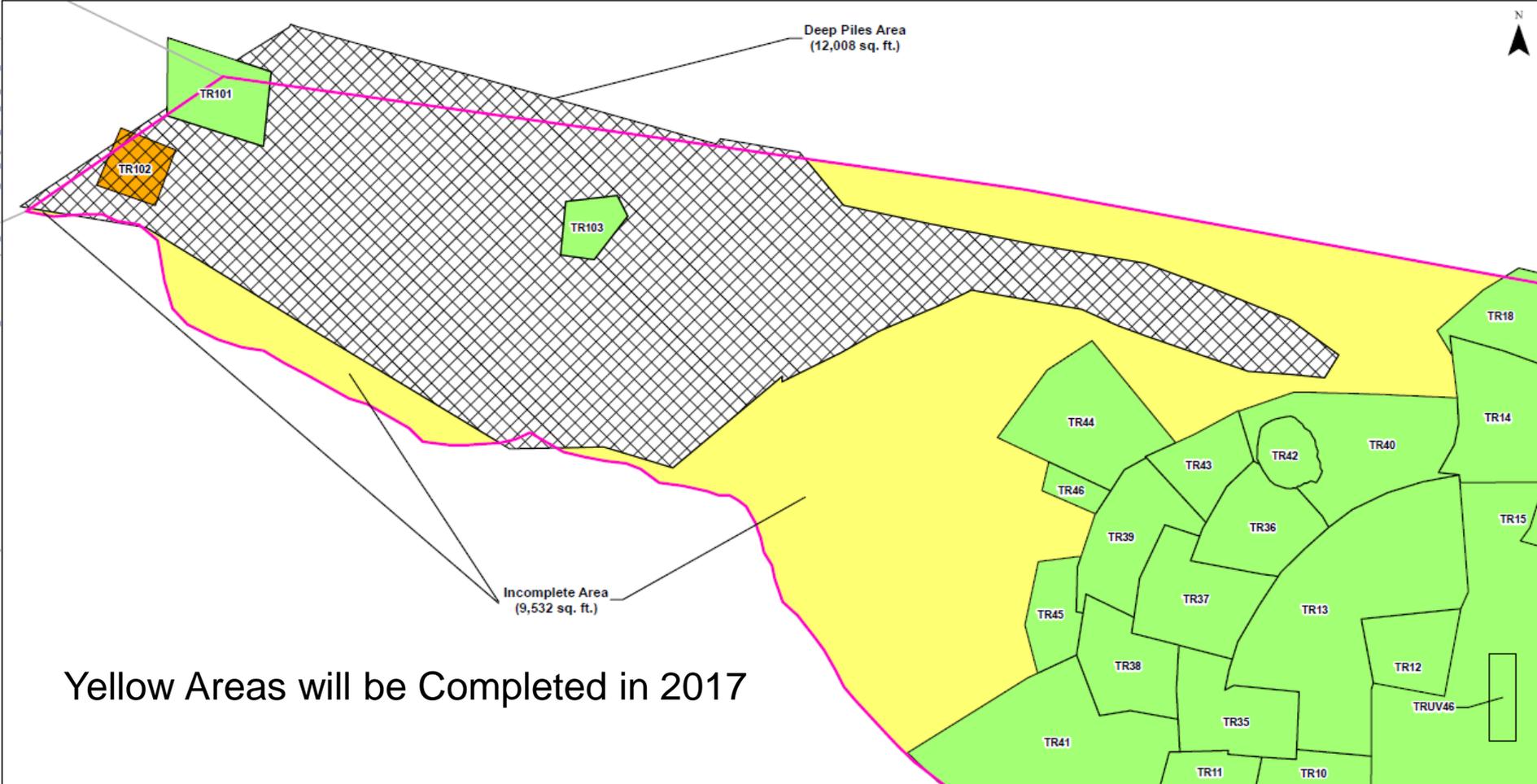


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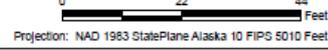


Yellow Areas will be Completed in 2017

LEGEND	
	Trenching In Progress
	Trenching Complete
	Shoreline Dump Area
	Potential Step Out East and West
	Deep Piles Area
	Incomplete Area (Trenching Not Started in 2016)



MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER	RAA-05/ALDA-01 - SHORLINE DUMP AREA
X-X	DEEP PILES AREA AND 2016 MEC CLEARANCE COMPLETION STATUS
ADAK NAVAL AIR STATION	
CBI Federal Services LLC 4696 Millennium Drive, Suite 320 Belcamp, Maryland 21017	

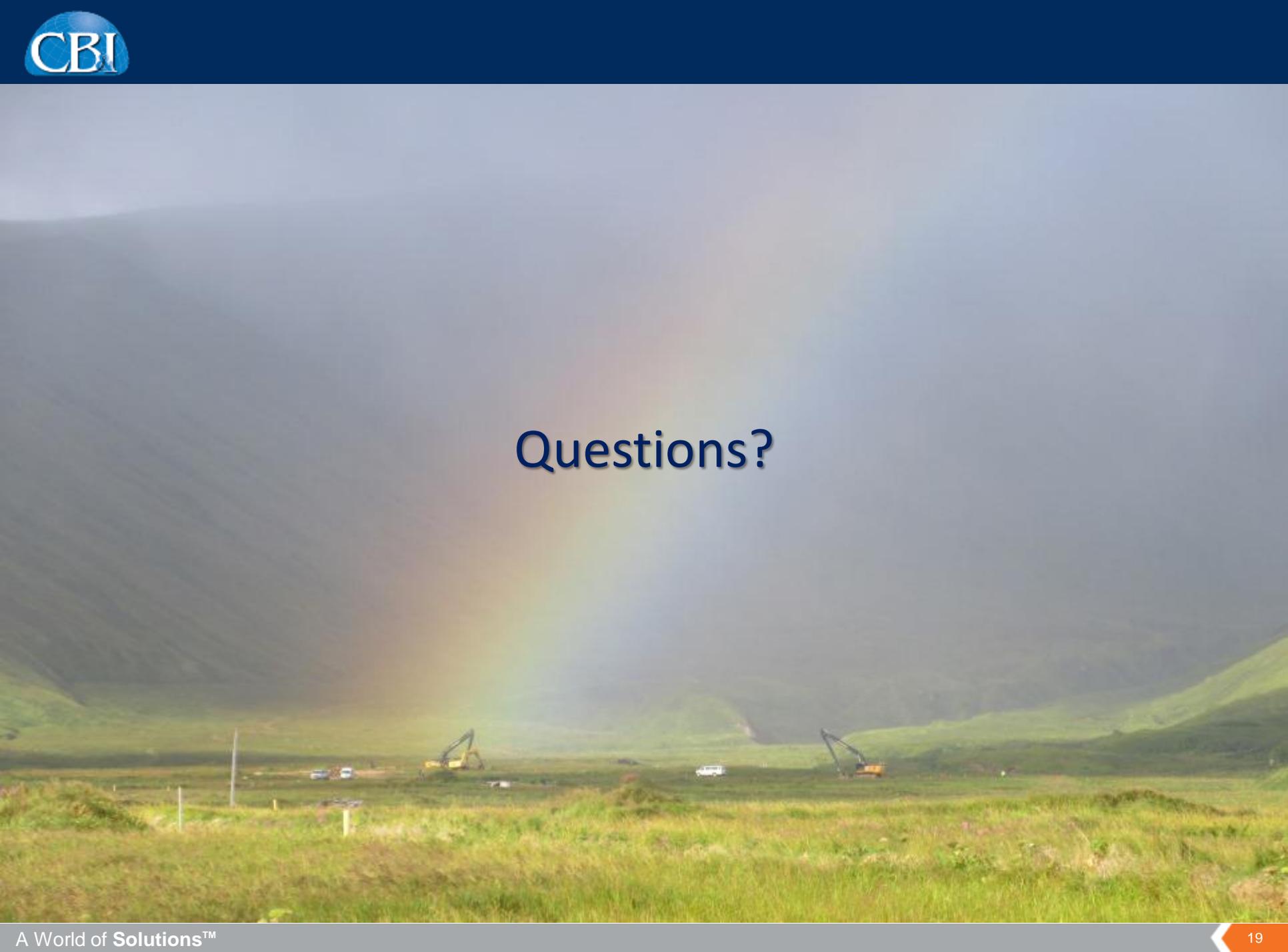


# Petroleum Contaminated Soil Removal at SWMU 62 and Building T-1451





Characterize approximately 4,000 tons of soil for Disposal  
Move soil greater than 250 mg/kg to Seattle for disposal  
Report summarizing removal anticipated in Fall 2017  
Addendum presenting soil disposal for Spring 2018

A large, vibrant rainbow arches across a misty, green valley. In the foreground, there is a field of tall grass. In the middle ground, a construction site is visible with two yellow excavators and a white van. The background features rolling green hills under a grey, overcast sky.

Questions?



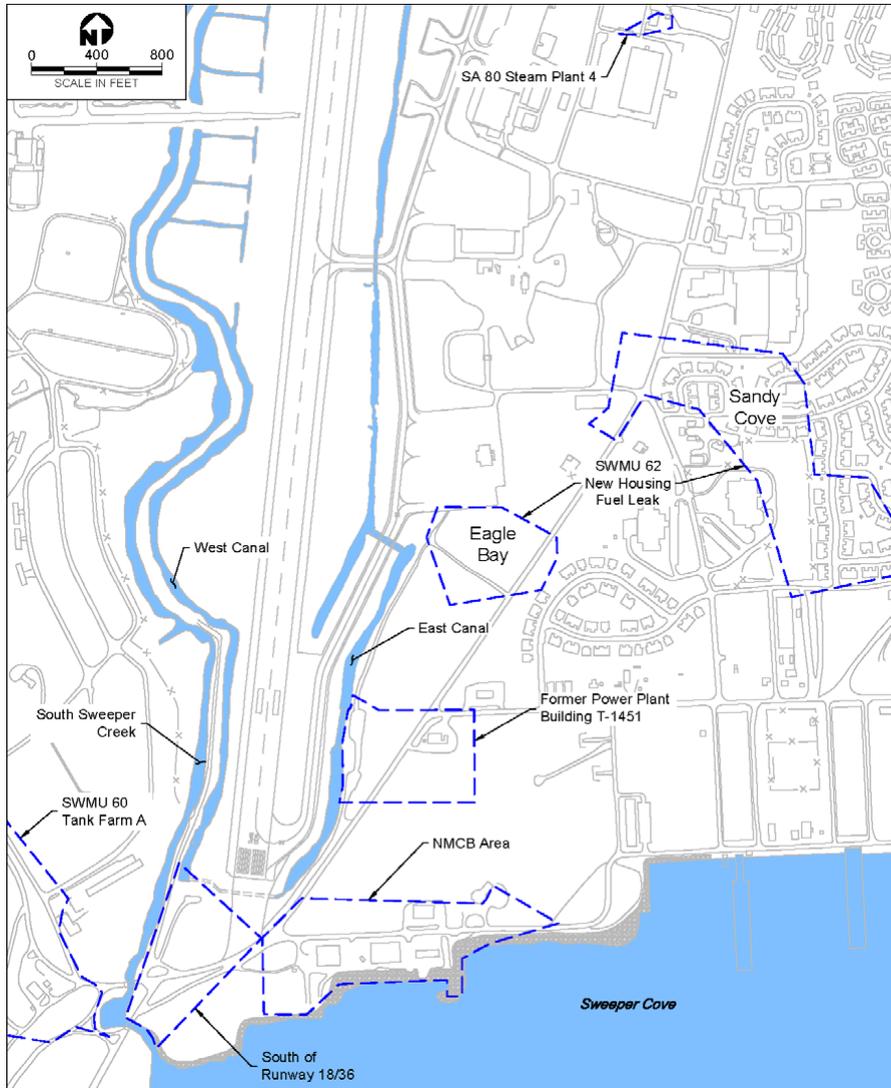
# **RESTORATION ADVISORY BOARD**

## **May 24, 2017**

**Free Product Recovery, SWMU 60 EE/CA, Long  
Term Monitoring Program, 5 Year Review, and  
PFAS Sampling**

**Former Adak Naval Complex  
Adak Island, Alaska**

# Free Product Recovery Program



- Absorbent booms on surface water are inspected and maintained monthly.
- Free product is recovered and/or monitored 6 times per year at SWMU 62, SWMU 60, T-1451 and other petroleum sites.
- Starting again in June and program is contracted through September 2018.

# Free Product Recovery Program



## Product Recovered - October 2015 to September 2016

- 26.7 gallons at SWMU 62 (all before the shoreline removal action)
- 6.3 gallons at Former Power Plant, Building T-1451
- <1 gallon at SWMU 60 (adjacent to South Sweeper Creek)



# SWMU 60

## Remedy Optimization Study

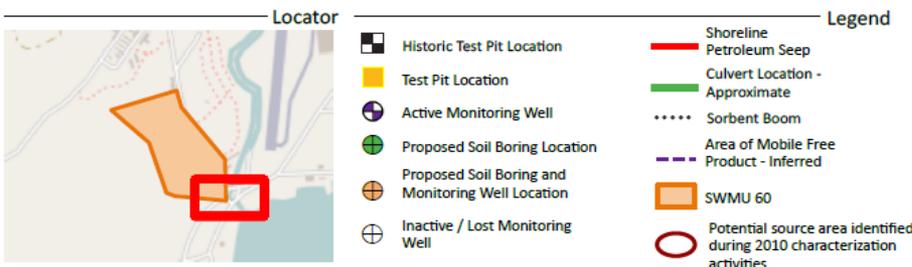
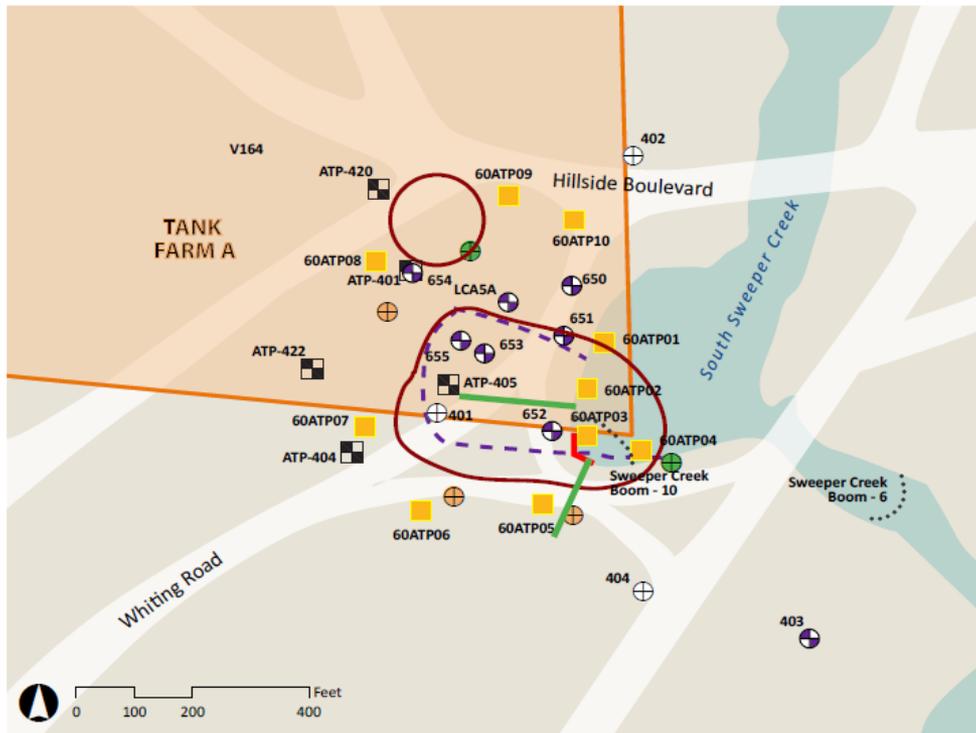


### Current

- Remedy is Monitored Natural Attenuation (MNA)
- Booms used to contain sheen on surface water
- Absorbent socks in wells with free product
- Annual groundwater & sediment monitoring

# SWMU 60

## Remedy Optimization Study



### Site Characterization

- Investigate soil, sediment & groundwater
- Install 3 additional wells
- Other soil & sediment sampling to characterize extent and understand site-specific conditions
- Field investigation in July 2017

### Engineering Evaluation/Cost Analysis

- Identify, describe, and evaluate potential removal action or remedy optimization alternatives
- Considers effectiveness, implementability, and cost criteria for each alternative



# Long-Term Monitoring Program

## Groundwater, Sediment and Surface Water



- 2016 sampling completed in mid-September
- Samples collected from 18 sites.
- 2017 Results/analysis in annual report (not yet finalized)
- 2017 Sampling begins in Aug.



# Institutional Control Inspections



- The 2016 IC program did not include site inspections – the next inspections are planned for 2017.
- No IC or landfill repairs conducted in 2016.
- Children's UXO awareness video was shown at the school in September 2016.

## 2016 Excavation Permits

- 4 permits issued

- 1 to CB&I for petroleum cleanup activities at SWMU 62 and T-1451
- 2 to CB&I for RAA01 & RAA05 munitions clearance work
- 1 to Bristol Engineering/City of Adak for downsizing water service area



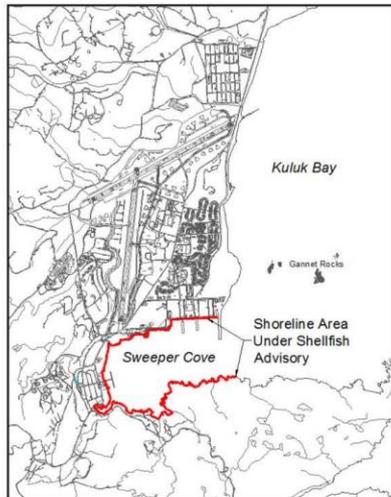
# Marine Monitoring Program Fish and Shellfish Tissue



## Health Advisory

### PCB Levels in Rock Sole and Blue Mussels March 2016

- The health advisory for Adak fish consumption includes rock sole caught in Sweeper Cove and Kuluk Bay and blue mussels gathered in Sweeper Cove.
- Suggested limits for the amount of rock sole and blue mussel are shown in the table.
- Women of childbearing age and children through six years of age should carefully follow the meal limits.
- The advisory does not apply to other species of fish, such as salmon or halibut caught in these or other waters around Adak.
- For more information, please visit the Adak information repository at City Hall.



	<b>Rock Sole</b>
	<b>Blue Mussel</b>

**Rock Sole/Blue Mussel Recommended Meal Limits\***

<b>Sweeper Cove</b>	
Rock Sole	about 1 meal every 2 weeks
Blue Mussels	about 1 meal every 2 weeks
<b>Kuluk Bay</b>	
Rock Sole	about 2 meals per week**

\* One meal equals 8 ounces of fish or shellfish for the average adult.  
\*\* This meal limit is based on higher 2011 concentrations to be more conservative.

- Marine monitoring is conducted on an odd-year schedule
- Sampling anticipated in June
- Fact sheets were distributed at last April's RAB and are available on the website

For more information: Leslie Yuenger  
(360) 396-6387 leslie.yuenger@navy.mil



# 2015 Tissue Sampling Locations and Findings



## Kuluk Bay

- 2015 average concentration in rock sole 4.96  $\mu\text{g}/\text{kg}$  (below action level)
- 2015 average concentration in blue mussels 7.08  $\mu\text{g}/\text{kg}$  (below action level)
- Slight, decreasing trend since 1999

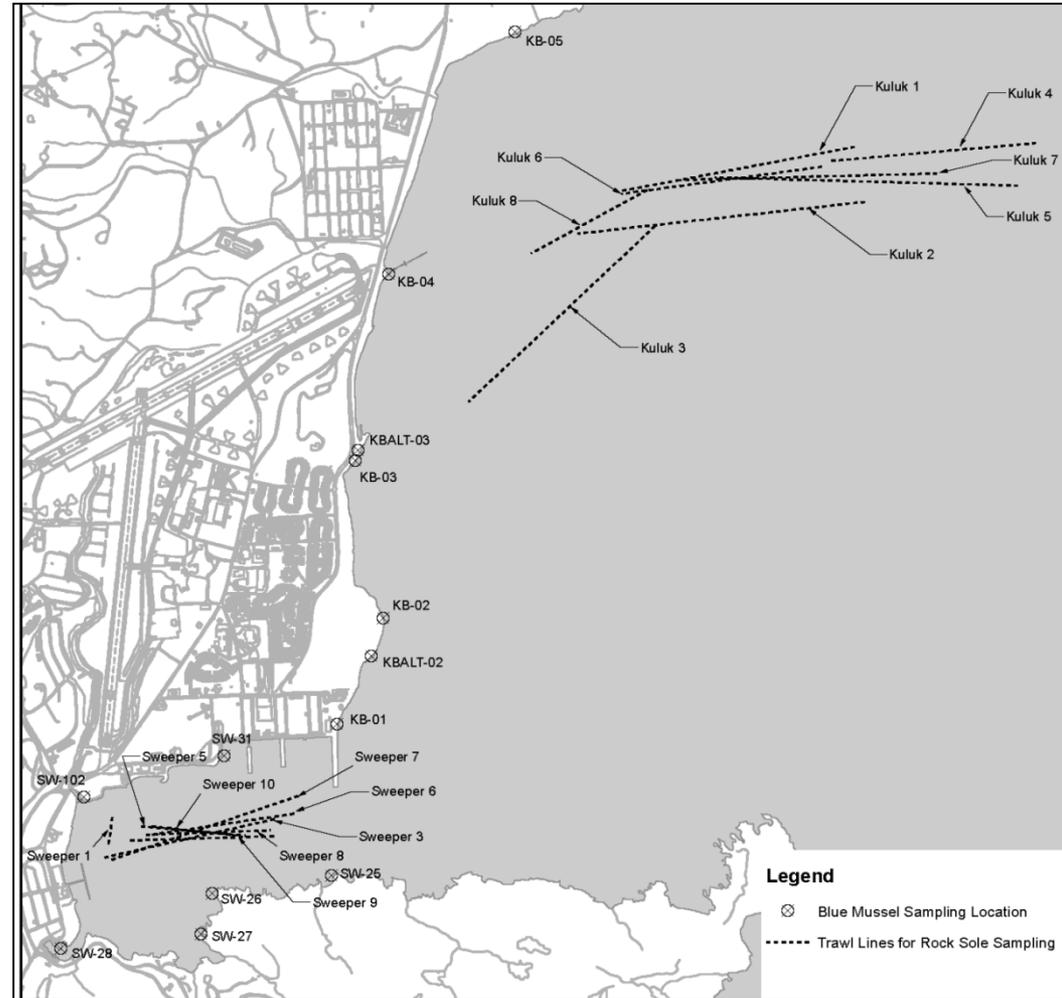
## Sweeper Cove

- 2015 average concentration in rock sole 53.5  $\mu\text{g}/\text{kg}$  (above action level)
- 2015 average concentration in blue mussels 19.3  $\mu\text{g}/\text{kg}$  (below action level)
- Slight, decreasing trend since 1999

### PCB Action Levels

Fish - 6.5  $\mu\text{g}/\text{kg}$

Shellfish - 31  $\mu\text{g}/\text{kg}$



# 2017 Long-Term Monitoring Program Summary



- **LTM sampling planned in late August/early September**
  - 3 petroleum sites
- **IC inspections planned in late August/early September**
- **Marine Monitoring field activities planned in June**
- **Developing Revision 7 of the Comprehensive Monitoring Plan**



## Fourth FYR finalized in December 2016

### Recommendations:

1. **Removal Action at East Canal SWMU-62 to protect SW – completed/monitoring**
2. **Collect Additional Vapor Intrusion data for screening analysis**
3. **Removal Action at East Canal Building T-1451 to protect SW – additional excavation completed in 2016/monitoring**
4. **Additional Characterization and EE/CA at South Sweeper Creek SWMU-60 to assess protection of down gradient surface water**
5. **PFC sampling of surface water and surface soil**

# Other Activities



- **Draft CMP expected in July for stakeholder review**
- **PFAS Sampling of Surface Water and Surface Soil scheduled for Late Summer 2017. Draft Work Plan anticipated in June.**

**Any questions?**