

# AGENDA

## ADAK RESTORATION ADVISORY BOARD

**Thursday, 10 September 2020**  
**5:00 pm Adak: Via Teleconference**

**Toll free dial-in number (U.S. and Canada): 1-844-712-3247 or 1-602-585-0123**  
**Access Code: 130 252 1553**  
**Meeting Password (if needed): vfTkHTCF378**

Adak Time	Agenda Topic	Speaker/Lead
5:00 pm	Welcome and Introductions	Carrie Plant, Community Co-Chair Justin Peach, Navy Co-Chair
	Review Minutes from 20 April 2020 RAB Meeting	RAB Members
	Munitions Program Update	Justin Peach, Navy Co-Chair
	PFAS Sampling of Soil, Groundwater, Surface Water	Cathy Weber, Navy
	OU A / OU B-1 / SAERA Closure Evaluation	Cathy Weber, Navy
	Fifth Five-Year Review	Cathy Weber, Navy
	Petroleum Update A. East Canal B. SWMU 60: Remedial Design C. Free Product Recovery Program	Cathy Weber, Navy Judo Lata, Navy

<b>Adak Time</b>	<b>Agenda Topic</b>	<b>Speaker/Lead</b>
	Long-Term Monitoring Update (LTM) and Institutional Controls (ICs) A. Dig Permits B. Marine Monitoring C. CMP Update D. IC Materials E. IC Repairs and Inspections F. Groundwater / Surface Water / Soil Sampling Information Repository Update	Justin Peach, Navy Co-Chair Judo Lata, Navy
	Community Report/New RAB Member Discussion/Comments	Carrie Plant, Community Co-Chair
	Review New Action Items	Carrie Plant, Community Co-Chair Justin Peach, Navy Co-Chair
	Preliminary Agenda for Next Meeting; Set Date for Next RAB	Carrie Plant, Community Co-Chair Justin Peach, Navy Co-Chair



# ADAK Restoration Advisory Board (RAB) Meeting Materials

Thursday, 10 September 2020  
5:00 PM Adak, via Teleconference

## 1. WELCOME AND INTRODUCTIONS

Introductions

Attendance

Establish Quorum (See Attachment A)

Review Agenda

## 2. APPROVAL OF PRIOR MEETING MINUTES / REVIEW OF PRIOR ACTION ITEMS

### Review and Approval of Prior Meeting Minutes

Draft minutes from the April 20, 2020 RAB Meeting were circulated to RAB members and interested parties on April 23, 2020 and again on August 18, 2020.

Any additional comments?

Request motion to approve.

### Review of Actions Items

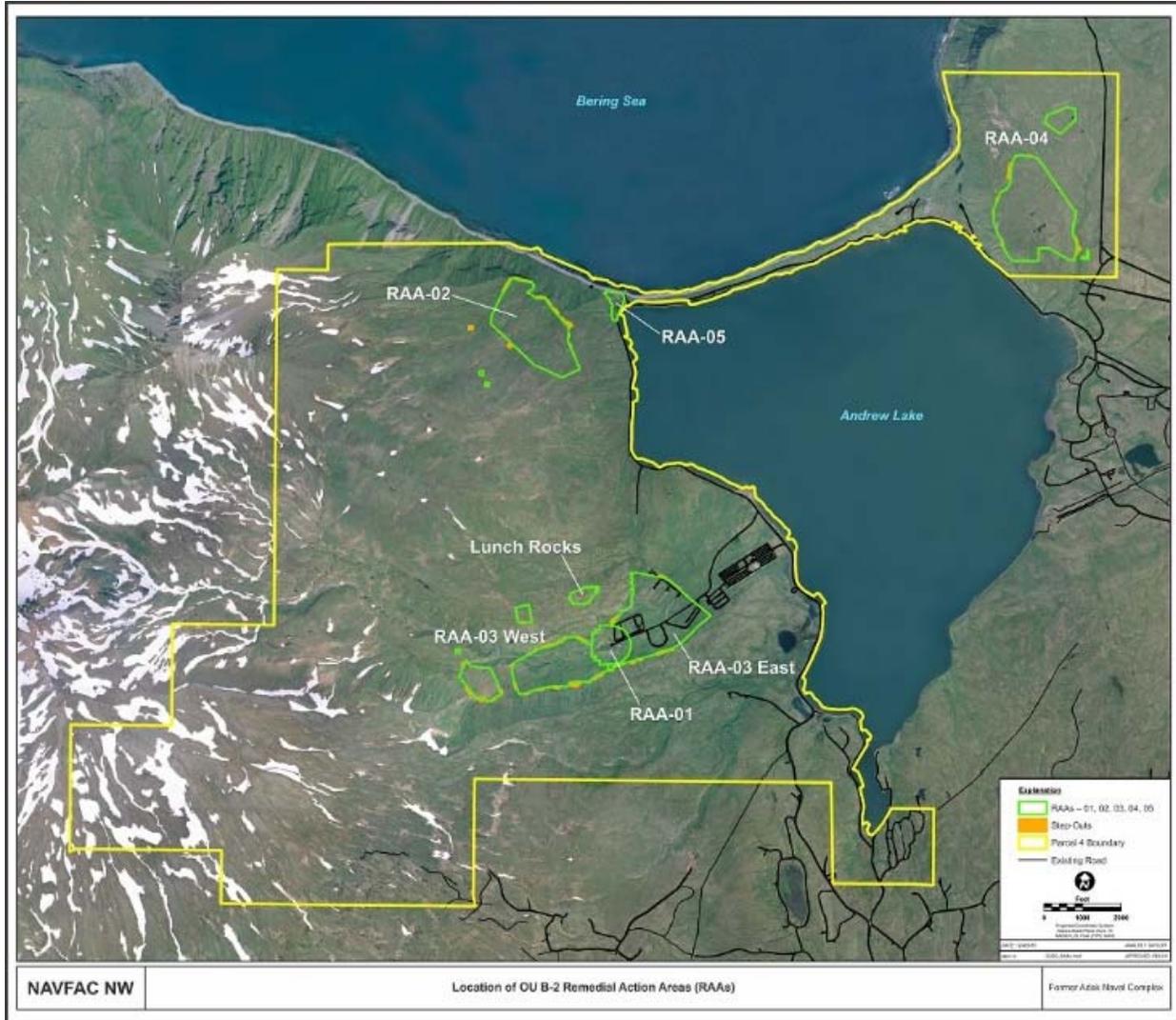
There were no action items from the April 2020 meeting.

## 3. MUNITIONS UPDATE

The Non-Time Critical Removal Action (NTCRA) in Operable Unit B-2 (OU B-2), Parcel 4, began in 2013. Five Remedial Action Areas (RAAs) were established and have been completed.

However, additional disposal areas were identified east and west of RAA-05 and remain as active remediation areas.

The 2020 field season was postponed due to COVID concerns. Aptim is scheduled to mobilize to Adak in the spring of 2021 to continue the remediation effort. Work areas shown on the first figure below.



All of the areas designated for surface clearance are 100% complete. The excavation at ALSW is approximately 90% complete. The excavation at ALDA-02 was halted at 69% when the first of two 500-pound bombs was encountered in August 2019.

The Navy has rescoped the project to include two remote controlled excavators in ALDA-02 (west of RAA-05), and a single long reach excavator to complete the last area at ALSW (east of RAA-05, on the seawall). The ALDA-02 work areas are shown on the second figure below.



**EOD Mobile Unit 11**

EOD MU 11 from Naval Air Station (NAS) Whidbey Island cancelled their 2020 site visit based on travel safety concerns related to COVID. EOD MU 11 is scheduled to return to Adak in April 2021. Their scope includes checking the Finger Bay shoreline for cartridge activated devices (CADs), performance of a seawall sweep, and opening the spillway.

**4. PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)****FOCUSED PFAS PRELIMINARY ASSESSMENT (PA) DOCUMENTATION**

Formal documentation of a Preliminary Assessment (PA) for PFAS has been prepared for a report to go to the Environmental Protection Agency (USEPA) and Alaska Department of Environmental Conservation (ADEC). The potential presence of PFAS is based on historic activities; further investigation may be warranted to determine its presence. The PA documents a comprehensive desktop and records review evaluation of Adak with respect to past uses of aqueous film-forming foam (AFFF, i.e., fire-fighting foam) on the island. The draft PA will be submitted to the USEPA and ADEC for review. Additionally, the draft will also be submitted to the City, The Aleut Corporation (TAC), and the Alaska Department of Transportation (ADOT) for their review.

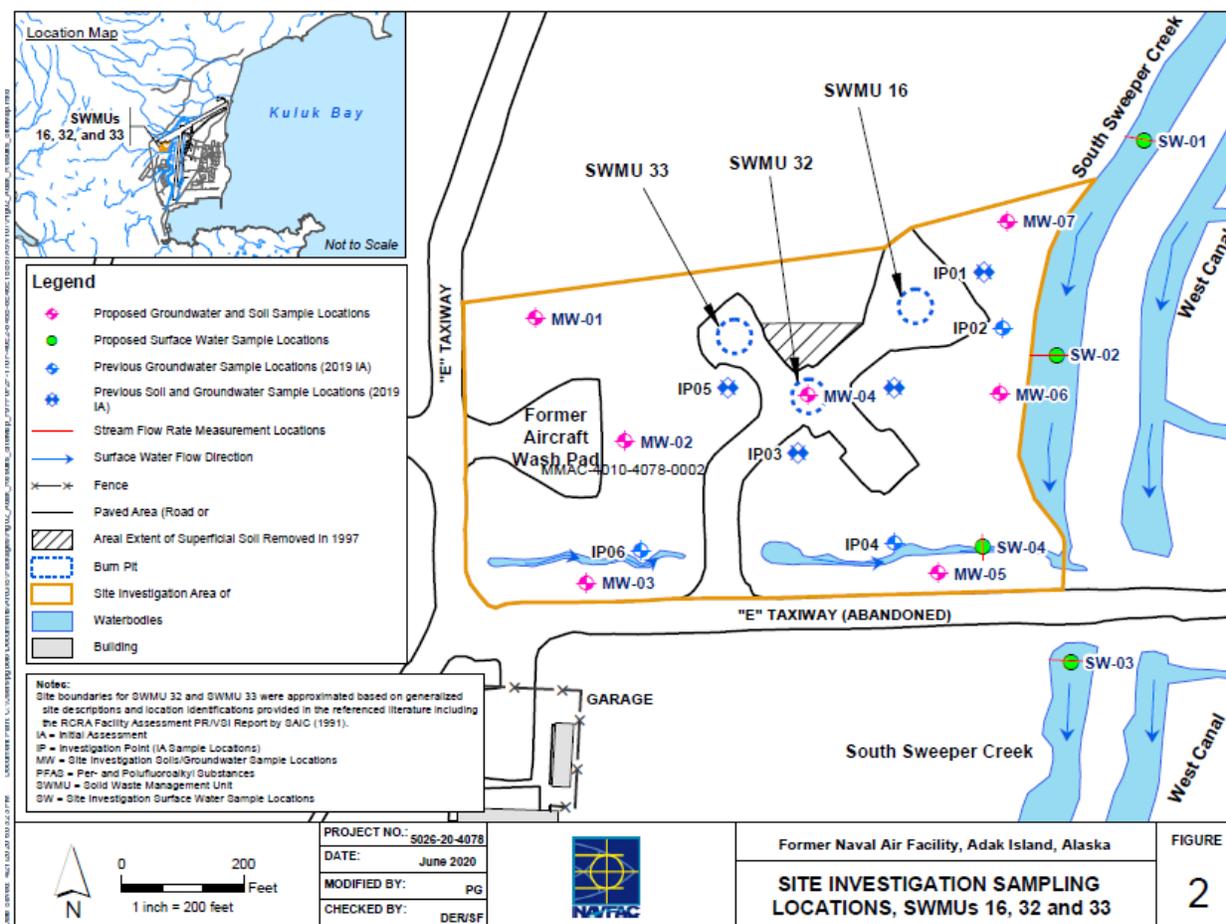
**SOIL, GROUNDWATER, AND SURFACE WATER SAMPLING**

Sampling for the PFAS compounds in the soil and groundwater at Solid Waste Management Units (SWMUs) 16, 32, and 33 (the former Fire Fighting Training Areas) was conducted in August 2018. One or more PFAS compounds were detected over action levels in seven out of seven groundwater samples and two out of four soil samples.

A site investigation (SI) is currently underway this week and next (September 5 to September 19). The work will include:

- a) Define extent of impact
- b) Additional soil and groundwater sample collection
- c) Well point installation in case additional samples are required in the future
- d) Surface water sampling

The following graphic shows the proposed sampling locations.



**5. OU A / OU B-1 / SAERA Closure Evaluation**

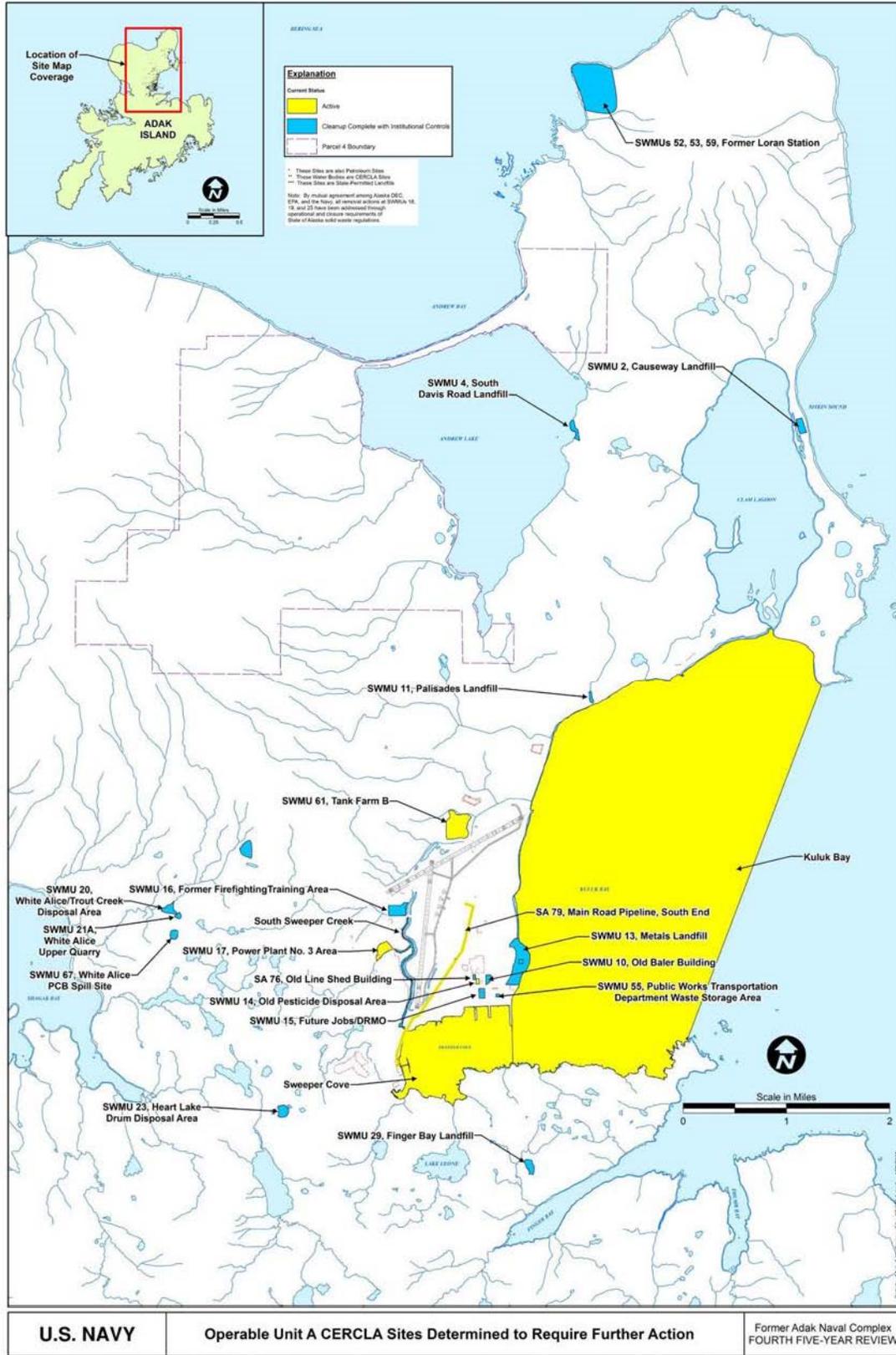
The Navy is evaluating all the Operable Unit (OU) A, OU B-1, and State Adak Environmental Restoration Agreement (SAERA) sites on Adak to determine if any opportunities are available to accelerate closure. This work is being conducted as preparation for the Fifth Five-Year Review, which begins later this year and has been refined to focus on OU A and SAERA sites.

**OU A and SAERA Sites**

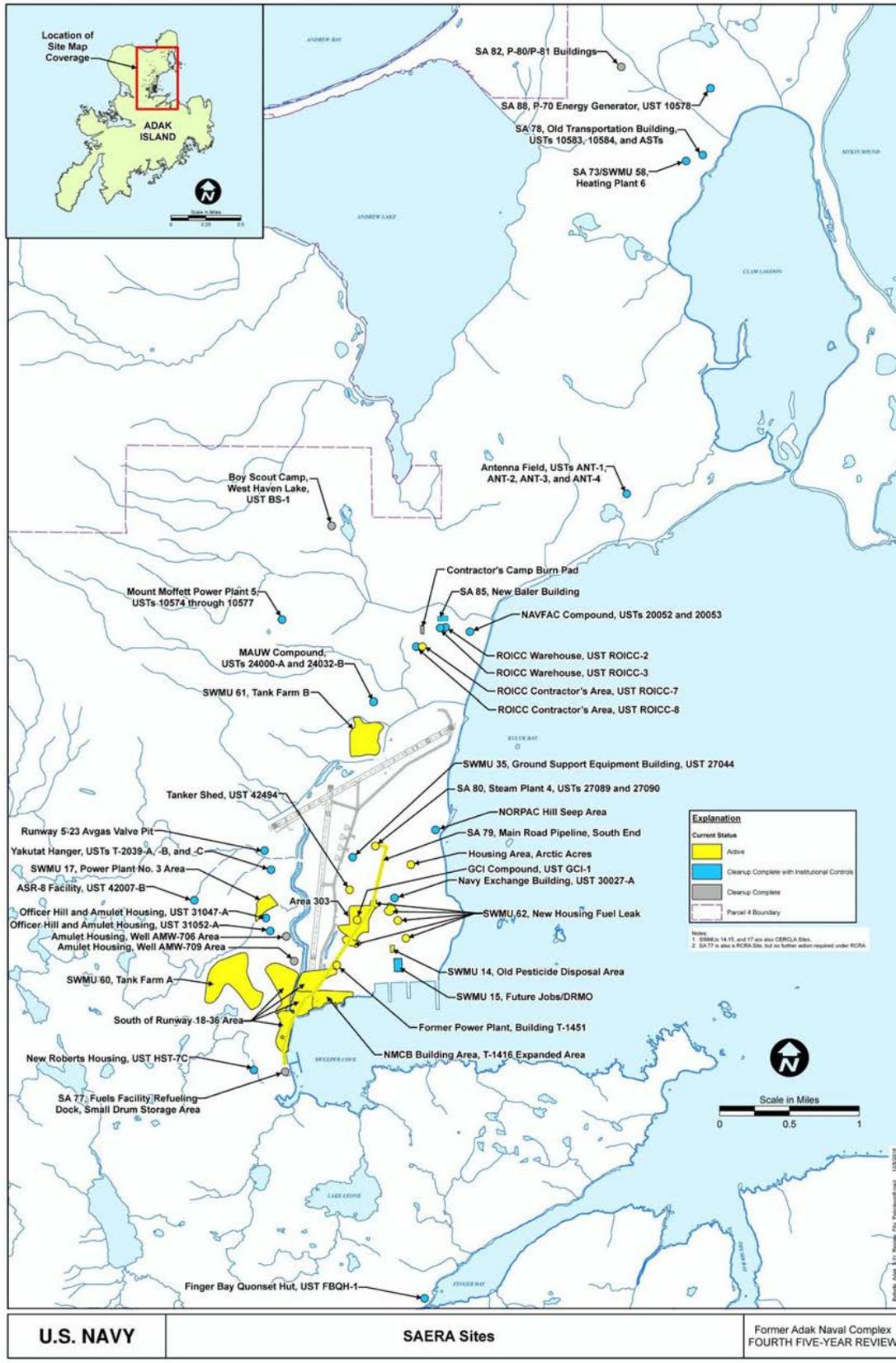
The Navy is establishing site-specific clean up levels for developing an overview of the sites included in the CERCLA Records of Decision (RODs) for Operable Unit (OU) A and OU B-1, as well as the sites under the SAERA. These levels have been documented in a memo to ADEC and USEPA. Closure goals for every site will be evaluated to determine where adjustments may be recommended, and confirm reasonable timelines to closure. Areas will be prioritized for investigation and remediation with the idea of accelerating closure at appropriate SAERA sites. A report with site-by-site recommendations is due in the fall of 2020.

**Well Abandonment**

The closure evaluation will also evaluate monitoring wells that are no longer required for the groundwater monitoring program and recommend wells to be closed (i.e., abandoned). The Navy anticipated being able to remove on the order of 200 monitoring wells that are no longer required. The field effort for well abandonment will be planned for the 2021 field season.



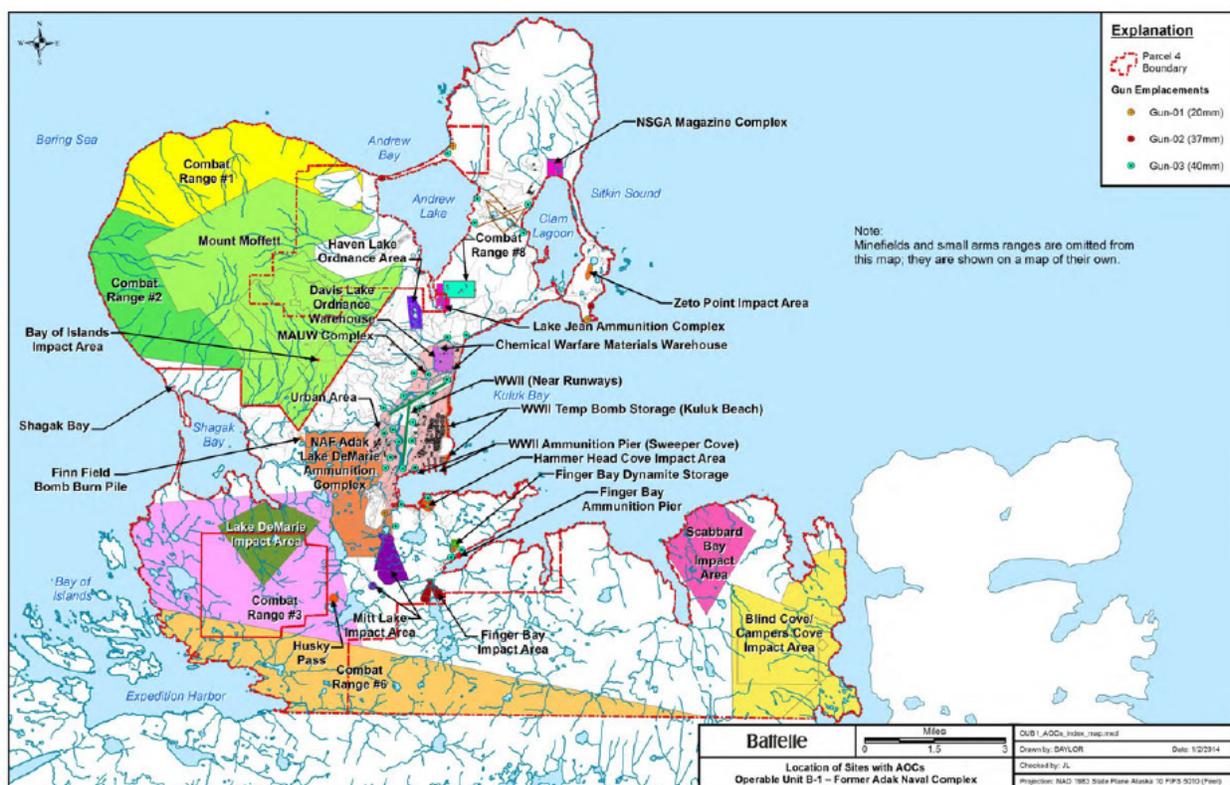
**OU A Sites**



**SAERA Sites**

**OU B-1**

Close out of OU-B-1 was also evaluated conducted to potentially delist OU B-1 from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contamination at OU B-1 sites included munitions and explosives of concern (MEC), which varied from small arms cartridges and casings up to 155-mm projectiles. OU B-1 sites included small arms ranges, potential minefields, firing points, impact areas, buffer zones, munitions loading areas, and munitions storage areas.

**Operable Unit B-1 Munitions Sites**

The OU B-1 Final Remedial Action Completion Report (RACR) documented completion of the cleanup in August 2014. USEPA deletion criteria are documented to have been met for all OU B-1 sites:

- All required response actions have been implemented.
- No further response actions are necessary.
- There is no health threat above USEPA's target health goals to humans or the environment.

In evaluating the effort to delist OU B-1 from Superfund, and the anticipated timeframe for the OU B-2 remedial actions to be complete, the Navy elected to delay the delisting to combine it with the OU B-2 effort, saving the costs of doing two separate delistings.

## **6. FIFTH FIVE-YEAR REVIEW**

Under the USEPAs CERCLA regulations, the Navy conducts a review of all CERCLA and SAERA sites that don't meet the unlimited use / unrestricted exposure (UU/UE) on Adak once every five years. The Navy will be initiating the fifth FYR this year and will document the FYR findings in a report to be completed by December 2021. The FYR includes visual inspections of all CERCLA and SAERA sites on the island to evaluate whether the remedy in place is still protective of human health and the environment. The process has been initiated and site inspections are currently planned for May 2021. Each site's status is updated in a Site Catalog to be included in the FYR report.

## **7. PETROLEUM UPDATE**

### **A. East Canal**

Some work associated with East Canal Petroleum was performed based on recommendations in the fourth FYR. However, more work remains. Petroleum-impacted surface water and soil, as well as liquid phase hydrocarbon (free-product) remain.

The Navy completed a conceptual site model for light non-aqueous phase liquid and dissolved petroleum constituents report with the goal of creating a top down view of all of the impact in the area, irrespective of traditional site boundaries. The report was finalized in May 2019.

Additional work to identify other potential petroleum sources is being planned for the summer of 2021 to include:

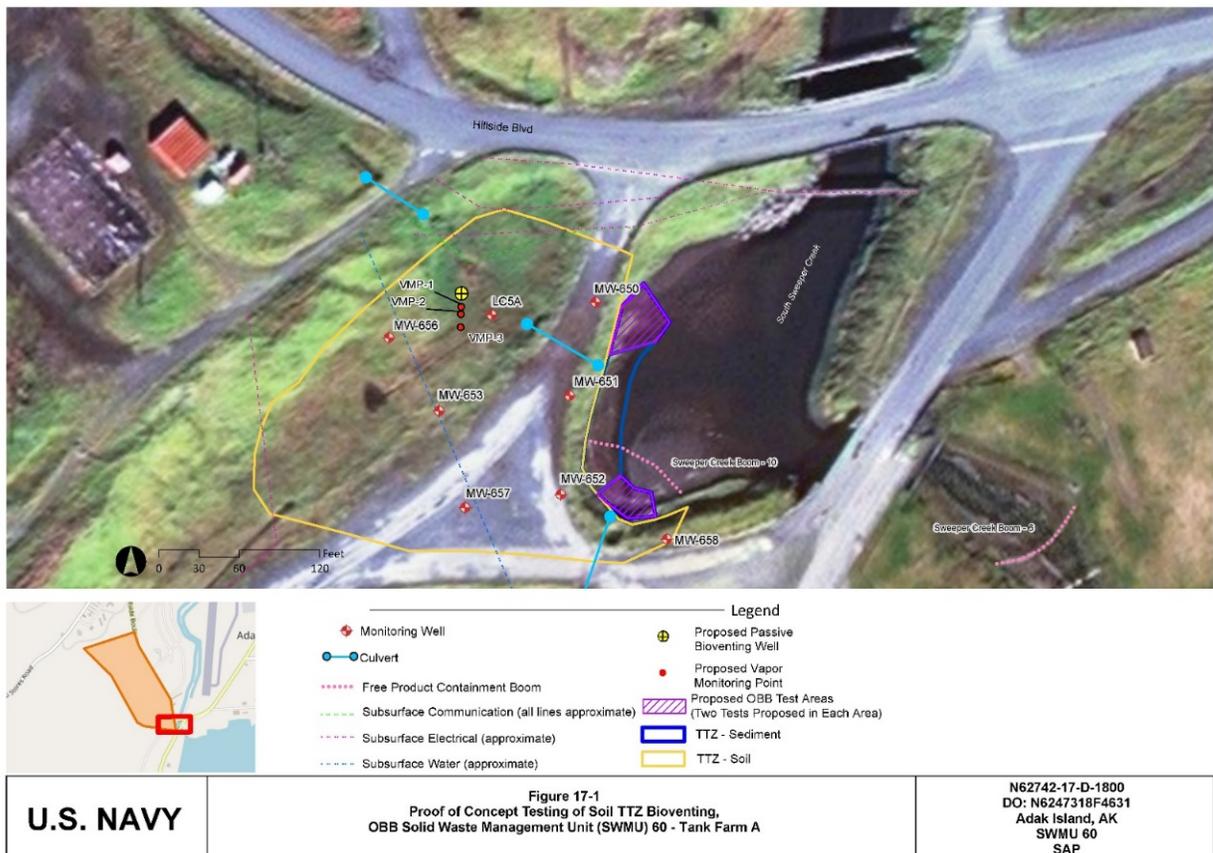
- a) Geophysical survey of East Canal and South of Runway areas;
- b) Finger printing the free product from South of Runway, T-1451, and SWMU 62;
- c) Evaluating whether a pipeline was missed in the pipeline cleaning and decommissioning efforts; and
- d) Using a multi-gas meter to measure O<sub>2</sub>, CO<sub>2</sub> and methane in wells along East Canal; and
- e) Abandoning monitoring wells that are no longer sampled and repairing and upgrading wells that are still being monitored.

Also, natural source zone depletion, which is a remedy optimization approach, is being included in the evaluation.

**B. SWMU 60: Remedial Design**

SWMU 60 is located at the bend in Sweeper Creek as it moves east towards Sweeper Cove. At present, the remedy that is in place as stated in the OU A ROD is monitored natural attenuation (MNA) of petroleum in the groundwater at the site and institutional controls (ICs). In addition, booms are being used to control the sheen that is visible in surface water. The groundwater is monitored for free product six times a year as part of the Navy Free Product Recovery Program.

In April 2018 an Engineering Evaluation/Cost Analysis (EE/CA) was finalized, and identified a preferred remedy enhancement alternative applying an oleophilic bio barrier (OBB) along the shoreline to mitigate sheen to surface water. Proof-of-concept testing was conducted at SWMU 60 for the OBB and a remedy design is currently being finalized and submitted to ADEC and USEPA. Pre-construction work to support the implementation of the design will be conducted in 2021 and construction is targeted for Summer 2022.



**C. Free Product Recovery Program**

Sealaska Environmental Services is the Navy contractor working on the Free Product Recovery Program. Sealaska staff are on-island once a month to maintain booms on East Canal and South Sweeper Creek and to monitor wells six times a year to recover free product. A total of 7.92 gallons have been recovered from the period between October 2019 and July 2020.

Recovery volumes from previous 12-month periods and the current period to date:

<b>Past 12-Month Recovery Periods</b>	<b>Total Product Recovered (gallons)</b>
October 2014 to September 2015	66.5
October 2015 to September 2016	37.7
October 2016 to September 2017	11
October 2017 to September 2018	8.2
October 2018 to September 2019	12.7
October 2019 to July 2020	7.92

**6. LONG-TERM MONITORING UPDATE (LTM) AND INSTITUTIONAL CONTROLS (ICs)**

**A. Dig Permits**

The Navy processed two dig permits since the last RAB meeting.

May 2020 – Multi-MAC JV – Monitoring well installations for PFAS investigation at SWMU 16, 32 and 33.

June 2020 – TDX Power Services – Power pole installations near Small Boat Harbor along Whiting Boulevard and Harbor Road, maintenance along Happy Valley Road.

Permits that are processed are forwarded to Mr. Lockett per Action Item 1 from the October 2016 RAB meeting. As always, the Navy would like to thank the groups that submit dig permits.

**B. Marine Monitoring**

The Marine Monitoring event was conducted in June 2020. The purpose of the marine monitoring is to determine polychlorinated biphenyl (PCB) concentrations in rock sole caught in Sweeper Cove and Kuluk Bay and in blue mussels gathered in Sweeper Cove. A consumption advisory is prepared based on the concentrations detected in the fish and mussels collected. The last time the samples were collected was in the summer of 2017.

The report documenting the results of the sampling is scheduled to be completed in January 2021. As with the prior efforts, a Fact Sheet will be generated and posted in the City. A detailed description of the work and the results, including any changes to the health advisory, will be presented at the first 2021 RAB meeting.

Data collected will also provide input for the fifth FYR.

### **C. Comprehensive Monitoring Plan (CMP) Update**

CMP Revision 8 update has been completed and has been placed in the repository at City Hall. The CMP consists of three major sections:

- Groundwater and Landfill Monitoring Sampling and Analysis Plan (SAP) – This component presents the locations and parameters for sampling at groundwater, surface water, and sediment at all of the OU A and SAERA sites being monitored. The section presents the sampling schedule, which is annual, biennial, or every five years.
- Marine Monitoring SAP – This component presents the requirements and schedule for collecting the rock sole from Sweeper Cove and Kuluk Bay and the blue mussels from Sweeper Cove, the analytical requirements, and the requirements to update the health advisory.
- Institutional Controls Management Plan (ICMP) – This component presents the requirements of the education and ICs program, and includes descriptions of the signs required and where they would be placed, the fencing requirements, educational materials such as coloring books, magnets, and DVDs, the dig restrictions and dig permit program, and other aspects related to physical safety for island residents and visitors.

The CMP is updated approximately every two to three years based on need and progress toward closing sites. This 2020 update was used to guide the annual sampling just conducted.

**D. Institutional Control (IC) Materials**

The Navy continues to make quarterly inquiries to the community and provide IC materials to the community as requested. Additionally, the Navy would like to encourage community members to reach out at any time for materials if a need arises. Inquiries were sent to the community in March and June 2020 and will be again during September 2020. Based on the responses received, the IC materials listed in the table below have been distributed.

Material Type	March 2020	March 2020	March 2020	March 2020
	Health Clinic	Airport	School	Aleutian Outfitters
Hiking Trail Maps				2 boxes
Coloring Books				
Bookmarks				
Large Magnets				
Posters - Wall				
Posters - Children				
Posters - Laminated Map				20
DVDs - Airport Message				
DVDs – Young People				
Laminated Fish Consumption Advisories				

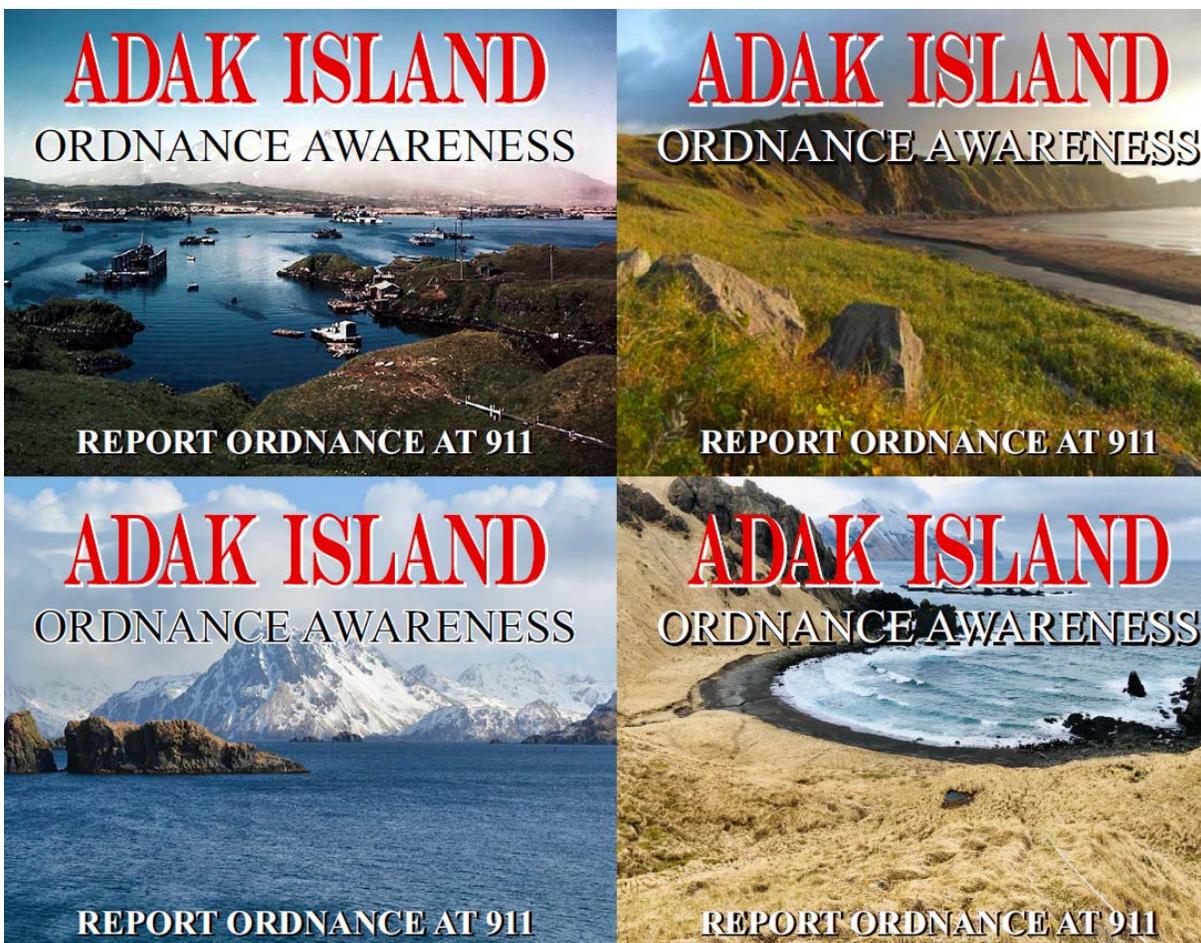
**IC Materials Update:**

As discussed over the last several RAB meetings, the Navy is updating and ordering more IC materials. The status on the materials is as follows:

Maps and laminated posters – Adding latitude and longitude.

Coloring books and DVDs – Reproduced with no changes.

Magnets – Adjusted to one quarter the size, reproduced as a series of four different pictures, and emergency phone number updated.



### E. Institutional Control Repairs and Inspections

Sealaska Environmental completed an ICs site inspection and the Final Report was submitted to the Navy. IC inspections were conducted at a total of 54 sites, seven landfills, Parcel 4, 12 OU B-1 ordnance sites, and other areas of interest.

#### Follow Up Actions:

APTIM will be performing routine swale repairs in September 2020 at White Alice, Palisades and Metals Landfills, plus replacing some signs.

The Navy is planning on extensive IC Repair work in 2021. The Navy is currently planning to remove the fencing in Parcel 4 as well as armor the seawall at Metals Landfill, plus the usual drainage swale repairs.

Work at South Davis Road Landfill was originally planned for 2021, but has been pushed a year based on workload and budget.

- Sealaska performed the 2020 annual inspections of the institutional controls in September 2020. Work included:
  - Annual IC activities,
  - Modified IC evaluation surveys, modified classroom presentation/surveys, and downtown area groundwater use canvassing, and
  - Excavation restriction monitoring.

**F. Groundwater / Surface Water / Soil Sampling**

Sealaska is currently conducting specified LTM sampling at 15 sites from August 19 to September 12. Data collected will provide input for the fifth FYR.

**G. Information Repository Update**

An Information Repository Update was submitted in July 2020. The following documents were added to the Adak Information Repository at City Hall.

- A. 2018 Annual Free Product Recovery Summary Report (02-2020)
- B. 2018 Annual Groundwater and Landfill Monitoring Report (05-2019)
- C. 2019 Annual Groundwater and Landfill Monitoring Report (05-2020)
- D. 2019 Field Season Completion Report OU B-2 NTCRA (03-2020)
- E. 2019 Institutional Controls Site Inspection Report (04-2020)
- F. 2019 QA Surveillance Report OU B-2 NTCRA (03-2020)
- G. Comprehensive Monitoring Plan, Revision 8 (06-2020)
- H. Conceptual Site Model for Light Non-Aqueous Phase Liquid and Dissolved Petroleum Constituents Report, East Canal (05-2019)

**H. COMMUNITY REPORT****I. REVIEW OF NEW ACTION ITEMS****J. NEXT RAB MEETING**

Date and time to be established by the RAB.

**K. ADJOURN**

## Attachment A

Current RAB Membership  
April 2020

Name	Affiliation	Location	Voting Member
Carrie Plant	RAB member (Community Co-Chair)	Adak, AK	1
April Smiloff	RAB member	Adak, AK	2
Elaine Smiloff	RAB member	Adak, AK	3
Esther Bennett	RAB member	Adak, AK	4
Jack Stewart	RAB member	Adak, AK	5
Kim Turnbull (Mik)	RAB member	Adak, AK	6
Layton Lockett	RAB member	Adak, AK	7
Melvin Smith	RAB member	Anchorage, AK	8
Tom Spitler	RAB member	Adak, AK	9
Chris Cora	RAB member (USEPA)*	Seattle, WA	
Darren Mulkey	RAB member (ADEC)*	Anchorage, AK	
Justin Peach	RAB member (Navy Co-Chair)*	Silverdale, WA	

\* Non-voting member

A quorum to take action will consist of 1/3 of the RAB members.

Action items will be reviewed and approved by a 2/3 vote of RAB members participating in the meeting.

Additional members may be added to the RAB by a quorum present and a 2/3-majority vote of present RAB member.