



# FINAL

## Adak Restoration Advisory Board (RAB)

### Meeting Minutes

#### April 20, 2020

Monday, 20 April 2020  
5:00 PM Adak via Teleconference

#### 1. WELCOME AND INTRODUCTIONS

Mr. Peach called the meeting to order at 5 PM local time and, following roll call, welcomed attendees to the meeting.

The following persons were in attendance:

Name	Affiliation	Location
Carrie Plant	RAB Member (Community Co-Chair)	Adak, AK
Justin Peach	RAB Member (Navy Co-Chair)*	Silverdale, WA
Elaine Smiloff	RAB Member	Kodiak, AK
Esther Bennett	RAB Member	Anchorage, AK
Jack Stewart	RAB Member	Adak, AK
Layton Lockett	RAB Member	Adak, AK
Chris Cora	RAB Member (EPA)*	Seattle, WA
Darren Mulkey	RAB Member (ADEC)*	Anchorage, AK
JoAnn Grady	Grady and Associates	Ashland, OR
Cathy Weber	NAVFAC NW	Silverdale, WA
Jody Lipps	Battelle	Columbus, OH
Shawn Majors	Battelle	Eugene, OR
Judo Garcia-Lata	NAVFAC NW	Silverdale, WA
Steve Skeeahan	NAVFAC NW	Silverdale, WA
Tony Megliola	NAVFAC BRAC	San Diego, CA

\*non-voting RAB member

Mr. Peach began the meeting confirming a quorum of the RAB membership was present (minimum 1/3 of RAB [i.e., 3 members]). A list of current RAB members is provided in Attachment A.

Mr. Peach asked the current RAB members to feel free to invite interested parties to consider joining the RAB.

Mr. Peach requested approval of the agenda. The agenda was approved by those present. The agenda and meeting were turned over to Ms. Plant.

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

### **Review and Approval of Prior Meeting Minutes**

Draft minutes from the September 30, 2019 RAB Meeting were circulated to RAB members and interested parties on October 9, 2019 (electronic) and again on April 1, 2020 (electronic).

Mr. Peach thanked Ms. Plant, Ms. Bennett, and Mr. Mulkey for the comments they provided on the Draft Minutes. Ms. Plant inquired if there were any edits to the meeting minutes. There were none. Ms. Plant asked whether a motion could be made to approve the minutes. Ms. Bennett motioned to approve the minutes. The motion was seconded by Mr. Lockett. The RAB voted to approve the minutes.

### **Review of Action Item**

Mr. Peach reviewed the action item from the September 30, 2019 RAB meeting.

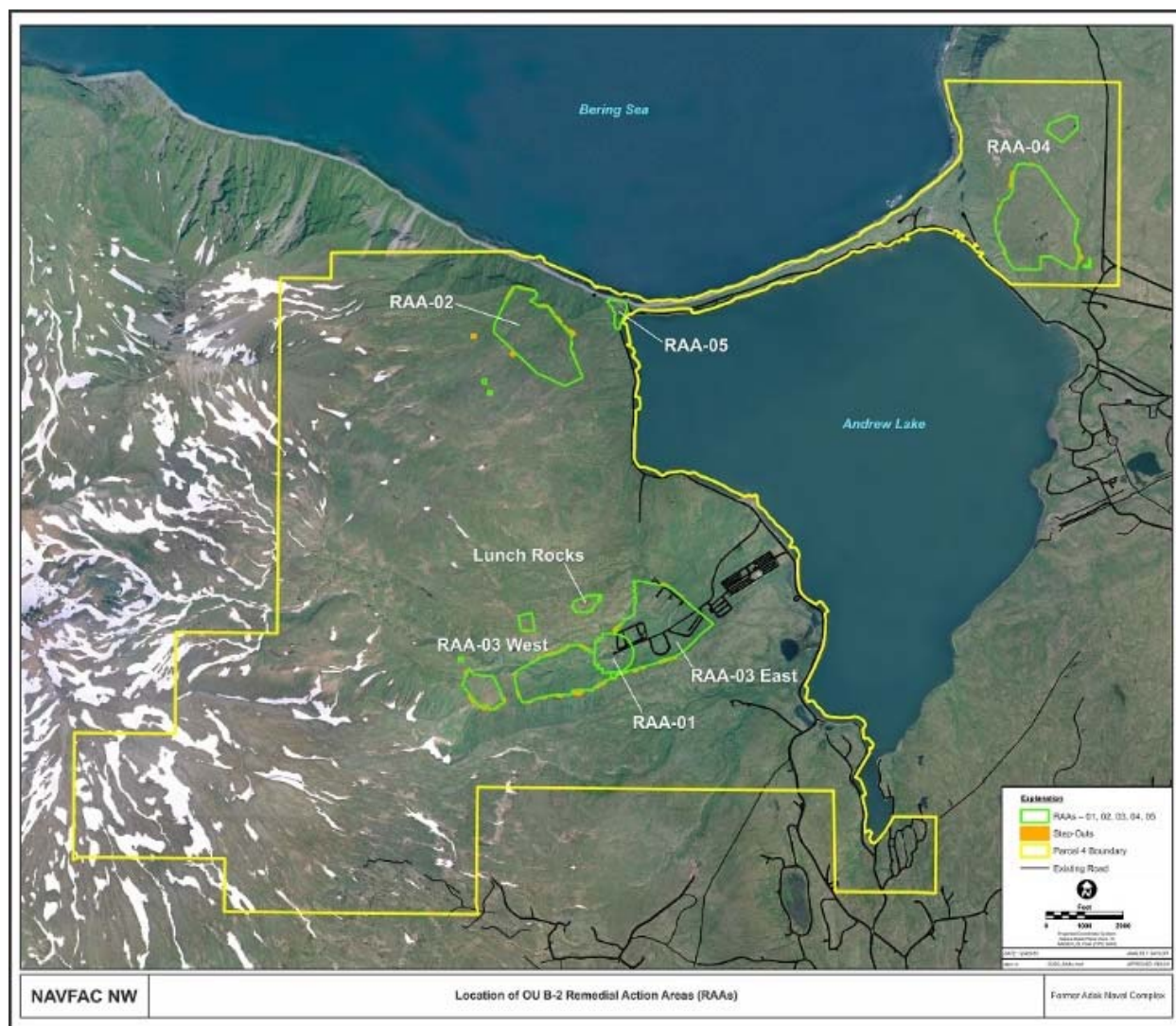
**Action Item One:** Mr. Peach will review with the RAB members participating in the discussion as to whether the coloring books should be re-ordered.

**Proposed for Closure:** Mr. Peach contacted the RAB members who participated in the discussion on October 1 (the day after the RAB Meeting) and all parties agreed that ordering the coloring books so they are available to people who want them is appropriate.

Mr. Peach asked whether a motion could be made to close the Action Item. Ms. Plant agreed. Mr. Stewart motioned to close the action item. The motion was seconded by Mr. Lockett. The RAB voted to approve the minutes.

## **3. MUNITIONS UPDATE**

Mr. Peach provided a summary of the status of the munitions remediation work in Parcel 4. 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.



**2019 / 2020 / 2021 / 2022**

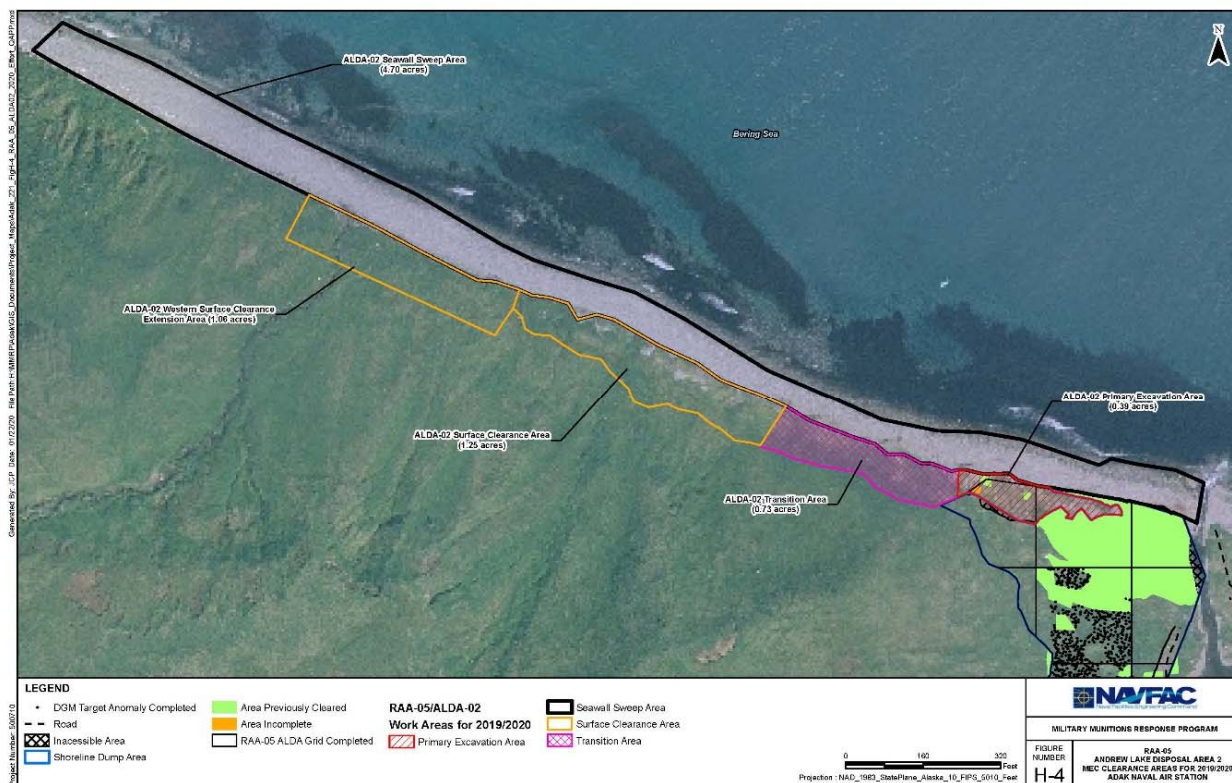
APTIM is contracted to continue work on the NTCRA through 2022. Work areas are shown on the graphic below.



All of the areas designated for surface clearance are 100% complete. The excavation at Andrew Lake Seawall (ALSW) is approximately 90% complete.

The excavation at ALDA-02 was halted at 69% when a 500-pound bomb was encountered in August 2019. A second 500-pound bomb was discovered on September 14 in the ALDA-02 area west of RAA-05. The size of the bomb, larger than anything found on Adak to date, meant that excavation had to be stopped since the means of excavating, with an operator in an armored cab, would not be adequate to ensure the safety of the operator in the event of a catastrophic event.

The Navy rescope 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 figure below.



Based on the COVID-19 pandemic, and the number of people travelling to Adak from a number of areas through a number of airports, the Navy elected to postpone fieldwork planned for 2020. The postponement of the work turned out to be consistent with guidelines published by the State of Alaska shortly thereafter. The current plan is to reschedule the work for the 2021 and 2022 field seasons.

**Explosive Ordnance Disposal (EOD) Mobile Unit (MU) 11**

EOD MU 11 Det. from Naval Air Station (NAS) Whidbey Island is scheduled to visit Adak in August 2020. Their scope includes checking the Finger Bay shoreline for cartridge activated devices (CADs), and performing a seawall sweep. At the request of the U.S. Fish and Wildlife Service (USFWS), EOD MU 11 will not be opening the spillway in 2020.

**4. PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) SAMPLING SURFACE SOIL AND GROUNDWATER**

Ms. Weber of NAVFAC NW introduced herself to the RAB. Ms. Weber is a new Project Manager working at the Navy and comes to the Adak projects with 20 years of environmental experience. Ms. Weber will be supporting the petroleum, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA; Superfund), and PFAS work on Adak.

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 7 of 7 groundwater samples and 2 of 4 soil samples.

A site investigation (SI) is being developed and is currently planned for August 2020. 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

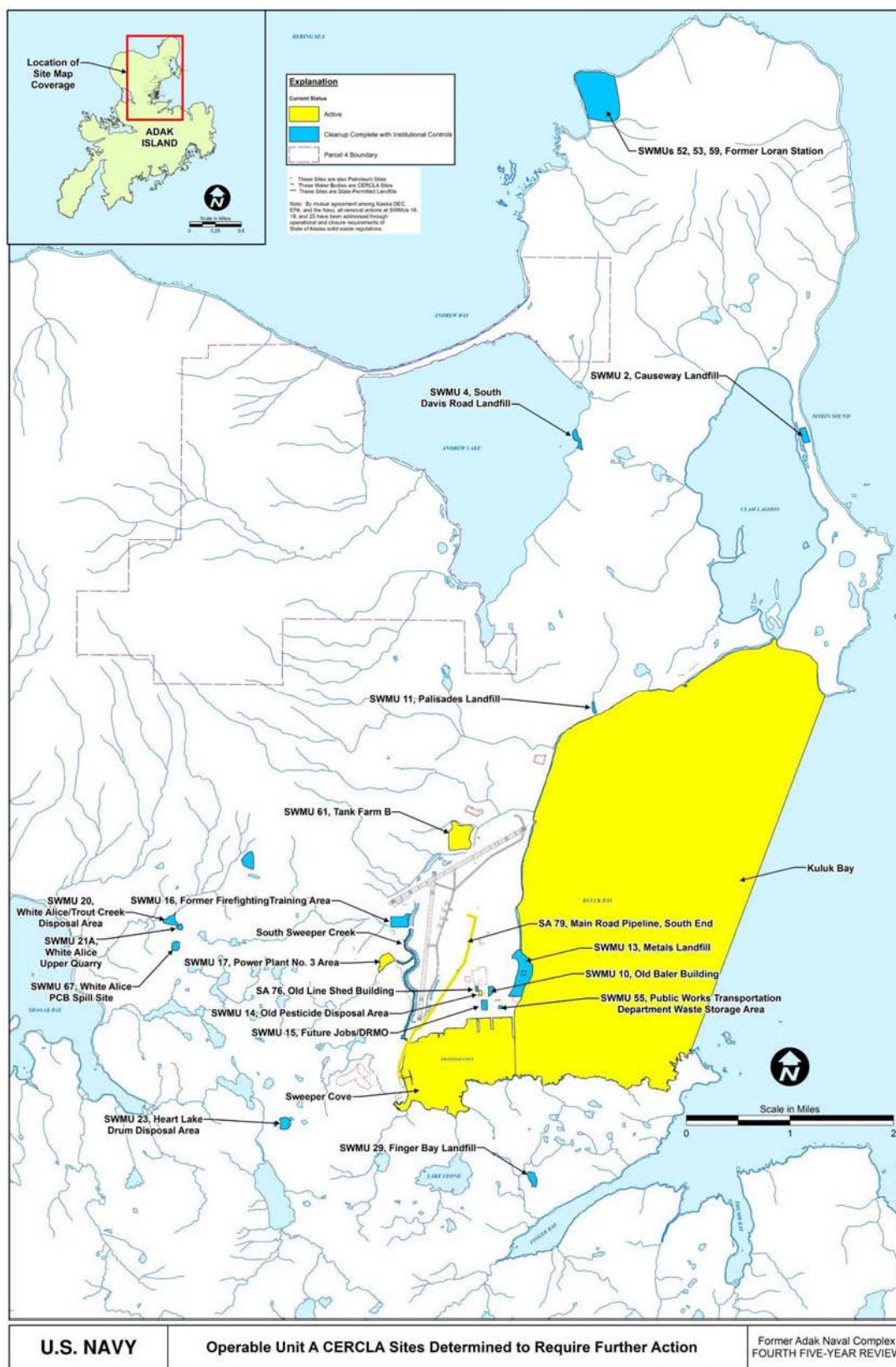
**5. OU A / OU B-1 / State Adak Environmental Restoration Agreement (SAERA) Closure Evaluation**

Ms. Weber reviewed the progress of the OU A / OU B-1 / SAERA Closure Evaluation. The Navy is evaluating all Operable Unit (OU) A, OU B-1, and 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 (FYR), which begins later this year.

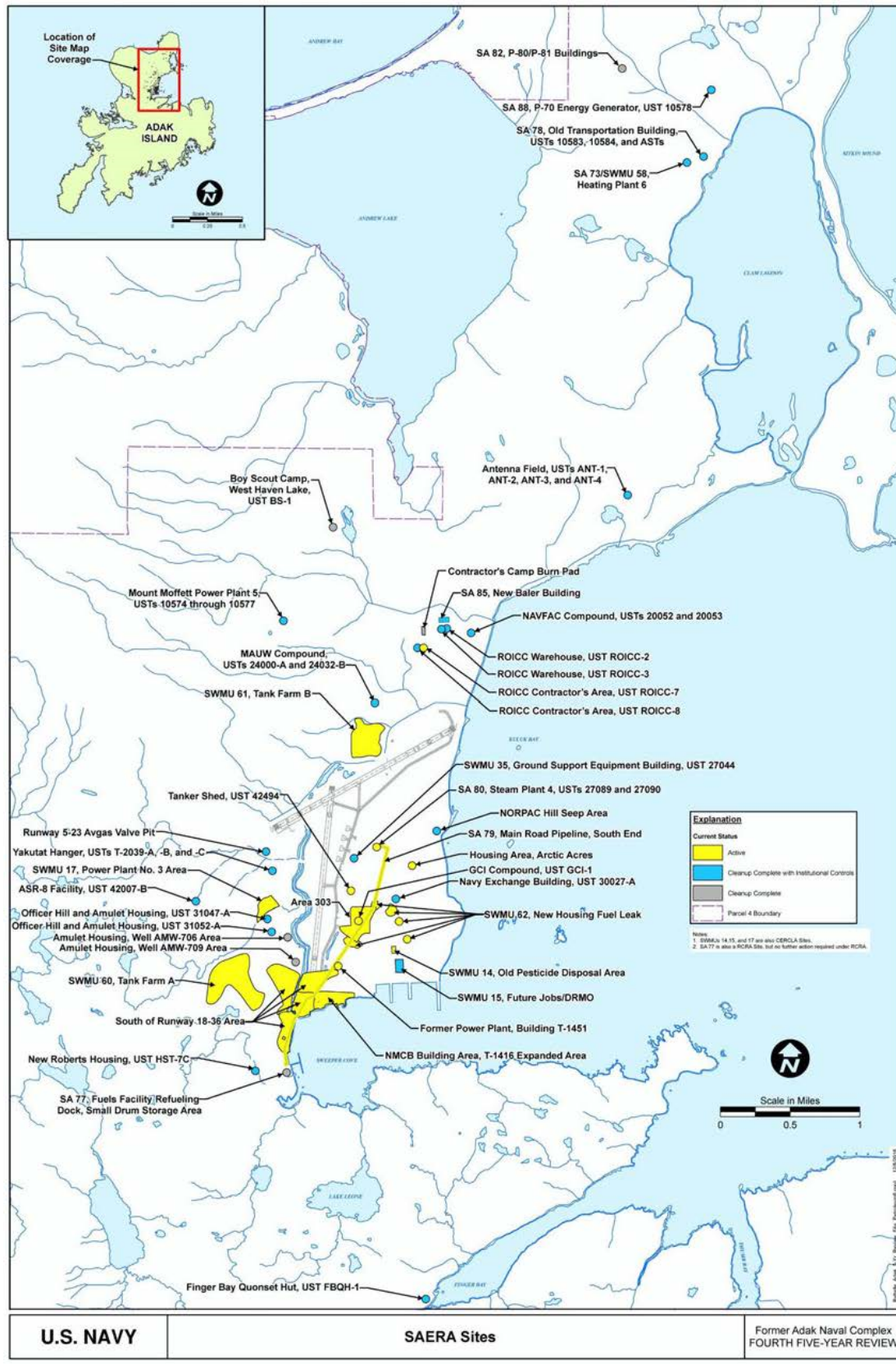
**OU A and SAERA Sites**

The Navy is establishing site-specific cleanup levels for developing an overview of the sites included in the CERCLA Records of Decision (RODs) for OU A and OU B-1, as well as the sites under SAERA. These cleanup levels will be documented in a memo to ADEC and EPA. 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. In addition, Screening Level Risk Assessment will be conducted for 17 OU A sites to assess whether there are data available to close these sites or whether recommendations for further work may be done to support closure.

An additional outcome of this evaluation will be to provide input for the Fifth FYR, which will be finalized in 2021. The Fifth FYR is expected to have action items with timelines based on this 2020 evaluation.



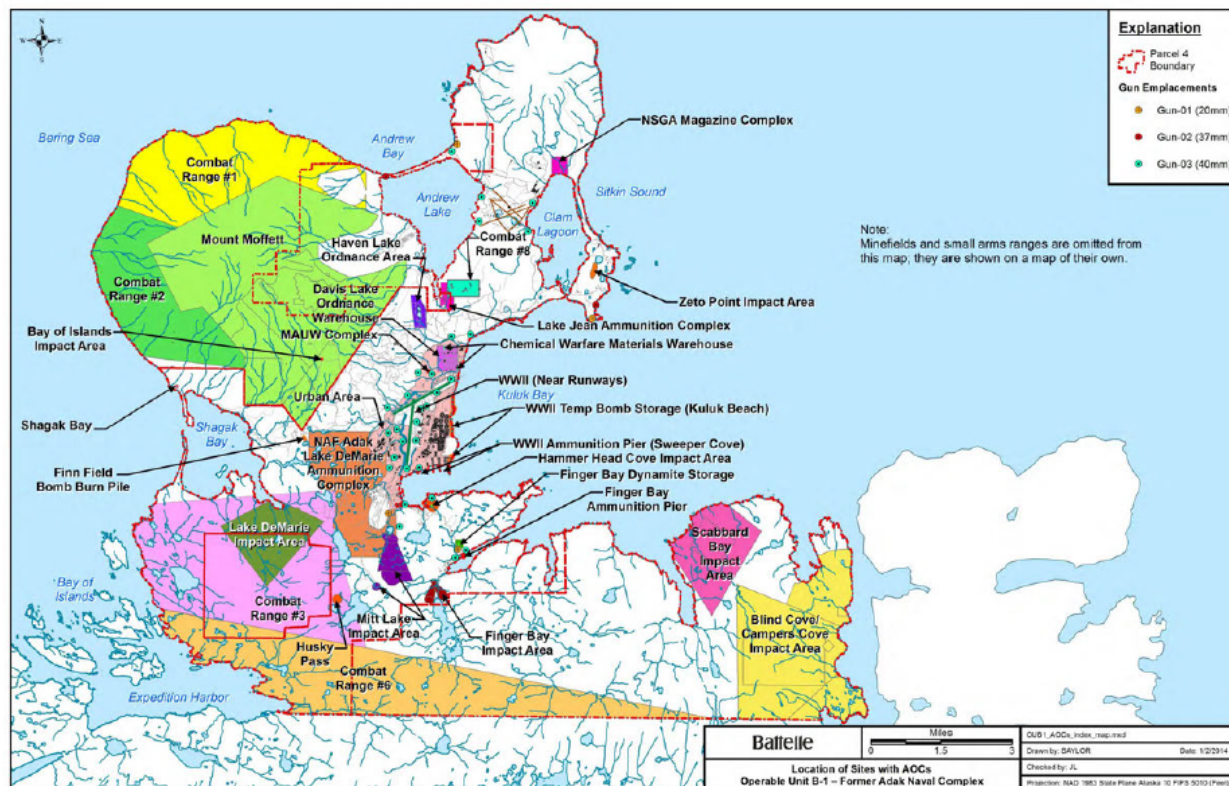
### OU A Sites



### SAERA Sites

## OU B-1 – Delisting from CERCLA

Ms. Weber summarized the development, then subsequent abandonment, of the concept to de-list OU B-1 from 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.



### OU B-1 Munitions Sites

The OU B-1 Final Remedial Action Completion Report (RACR) documented completion of the cleanup in August 2014. EPA deletion criteria have been 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 EPA's target health goals to humans or the environment.

Ms. Weber reported that upon evaluation of the level of effort and relative gain, the Navy elected to prioritize the OU A efforts.

Ms. Plant asked if the sites in the OU B-1 figure are what are being evaluated for closure. Ms. Weber indicated that all clean-up work is complete in OU B-1, the close-out in the CERCLA or Superfund program would have been administrative, but would not have completely closed out Adak from the CERCLA or Superfund program since OU A and OU B-2 remain. Mr. Peach added that delisting just one OU did not provide enough benefit for the level of effort, particularly when OU B-2 is close to being completed. The Navy is currently planning on starting the process to request a delisting all of Adak (OU A, OU B-1, and OU B-2) from the EPA and ADEC in approximately 2023.

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

Ms. Weber provided an update on the Navy's upcoming Fifth FYR effort. Under the EPA's CERCLA regulations, the Navy conducts a review of all CERCLA sites on Adak once every five years. The Navy will be initiating the Fifth FYR this year and will document the FYR in a report to be completed by December 2021. The FYR includes an in-person inspection of all CERCLA sites on the island to evaluate whether the remedy in place is still protective of human health and the environment. The process will begin with site inspections currently planned for August 2020. Each site's status is updated in a Site Catalog to be included in the FYR report.

## **7. PETROLEUM UPDATE**

### **A. East Canal**

Ms. Weber discussed the plan for further work at East Canal. Some work associated with East Canal Petroleum was performed for the Fourth FYR. However, there is more work remaining to be done. Surface water and soil impact and liquid-phase hydrocarbon (also known as free-product – oil that is floating on the groundwater) 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) Fingerprinting the free product from South of Runway, T-1451, and SWMU 62;

- c) Evaluating whether a pipeline was missed in the pipeline cleaning efforts;
- d) Using a 4-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 considered.

Mr. Mulkey asked what the timeframe is for the pipeline project. Ms. Weber explained that the Navy is currently in the scoping process and contract work has not been initiated. The Navy expects to award a contract for this work in 2020, will prepare plans in the fall/winter and conduct the fieldwork in the summer of 2021.

## **B. SWMU 60: Remedial Design**

Mr. Garcia-Lata provided a summary of the status of the SWMU 60 Remedial Design effort. Remedial enhancement efforts began with an Engineering Evaluation/Cost Analysis (EE/CA) in 2018 and a proof-of-concept testing followed in 2019. A basis of design is currently underway for the oleophilic bio-barrier (OBB) remedy.

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.

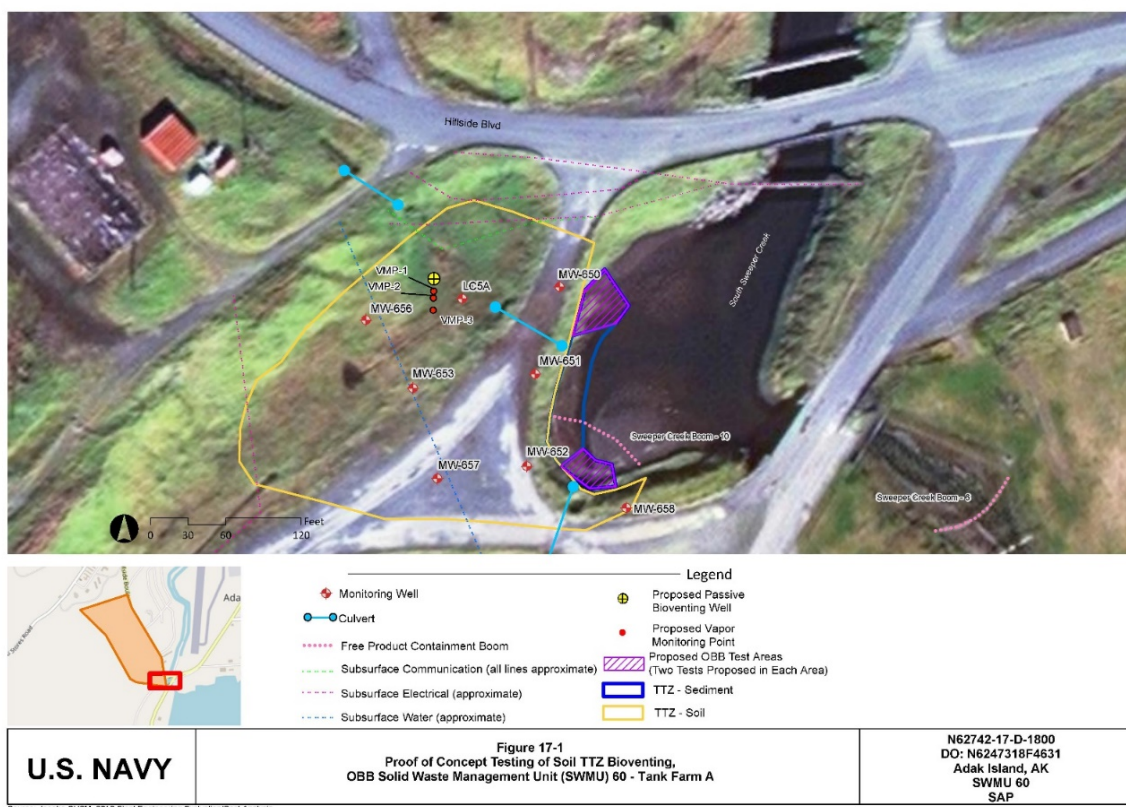
In April 2018 the EE/CA was finalized, and identified a preferred remedy enhancement alternative applying an OBB along the shoreline to mitigate sheen to surface water, wind-assisted bioventing adjacent to the roadway to stimulate biodegradation of petroleum products, and continued monitoring of natural attenuation.

Proof-of-concept testing was conducted at SWMU 60 for the OBB and bioventing technologies in July and August 2019.

The work included:

- a) Installation of one wind-assisted bioventing well and three vadose zone monitoring points at a location with the highest known concentrations of contaminants in soil upgradient from South Sweeper Creek.
- b) Installation of four 3-square-foot OBB test areas at locations with the highest known concentrations of contaminants in sediments at South Sweeper Creek.

See the following graphic.



Following the testing period (30-60 days), the collected data were evaluated to determine if wind-assisted passive bioventing and OBB are viable technologies and full-scale remedy design should proceed. The completion of fieldwork in summer 2019 concluded that wind-driven passive bioventing was ineffective. However, the OBB was successful at adsorbing sheen onto the test sections. Thus, design of the OBB portion of the SWMU 60 Remedy Enhancement shall continue.

The design will be comprised of the basis of design, design drawings, and specifications. It will describe in detail the remedy enhancement design, construction, specifications, considerations, performance objectives, and an approach for post-implementation operations and maintenance, including site closure strategy.

### C. Free Product Recovery Program

Mr. Garcia-Lata provided a summary of the status of the Free Product Recovery program. He summarized the current and past recovered volumes of product in the last five years.

Sealaska Environmental Services is the Navy contractor working on the Free Product Recovery Program. Staff from Sealaska 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 2.42 gallons have been recovered from the period between September 2019 and March 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 August 2019	12.7
September 2019 to March 2020	2.42

Mr. Garcia-Lata indicated that although the recovery volumes have been decreasing, and in particular show a sharp decrease in the last year, closure goals have not been met and the program will continue for the foreseeable future.

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

### **A. Dig Permits**

Mr. Peach reported that the Navy has not processed any dig permits since the last RAB Meeting. Any permits that are processed will be 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**

Mr. Garcia-Lata provided a brief summary of the scheduled Marine Monitoring event set to occur in June 2020. The primary objective is to support marine monitoring for polychlorinated biphenyls in fish and shellfish tissue in Kuluk Bay and Sweeper Cove.

The next Marine Monitoring event is scheduled for June 2020. At present, it is still scheduled but may get postponed due to COVID-19. Data collected will provide input for the Fifth FYR.

### **C. Comprehensive Monitoring Plan Update**

Mr. Garcia-Lata provided a brief summary of the efforts to update the Comprehensive Monitoring Plan (CMP). The CMP is the document that guides how all the sampling and monitoring occurs on Adak. It is updated on a regular basis, generally every 2 to 4 years. Edits have been made to the Marine Monitoring, Groundwater and Landfill

Monitoring, and Institutional Control and Management Plan. The document is being streamlined for use in the field and is planned to be finalized in the fall of 2020.

#### D. IC Materials

Mr. Garcia-Lata asked for group revisions and comments to update the IC materials. He noted that in the last call for materials that only one request was made by Aleutian Outfitters. They had requested a box of maps and some posters. The Navy is working on a means to deliver the materials to Aleutian Outfitters.

The following IC materials have been distributed since the last RAB Meeting:

Material Type	Sep 2019	October 2019	October 2019	October 2019
	Health Clinic	Airport	School	Aleutian Outfitters
Hiking Trail Maps	1 box	2 boxes		1 box
Coloring Books	9		10	
Bookmarks	100	100	50	100
Large Magnets	20		1	
Posters - Wall	2			
Posters - Children				
Posters - Laminated Map	2			
DVDs - Airport Message	2		1	
DVDs – Young People	2			
Laminated Fish Consumption Advisories				

The Navy is soliciting input from RAB members on changes they would like to see in the IC Materials. One input received during the September 2019 RAB Meeting was that the refrigerator magnets be one quarter the size they are now and that there would be four magnets, each with a different picture. Continuation of the coloring books was also discussed and then agreed to following the last RAB meeting. At this point, the remaining item requiring input is whether there are changes desired on the maps. One input received is to include latitude and longitude (eastings and northings) on the maps. The Navy will work with Mr. Spittler to determine whether that is still required and to what datum.

Mr. Garcia-Lata asked whether there was any other input or revisions to the IC Materials. Mr. Lockett indicated that he had none at this time, but asked how long input

could be accepted. Mr. Garcia-Lata indicated that input would be welcome until the end of the summer.

### **E. IC Repairs and Inspections**

Mr. Peach reported that APTIM had been contracted to complete the following IC Repairs in 2020: removal of fencing at Parcel 4 and drainage swale repairs at the landfills. This work is presently postponed. If it becomes possible, the Navy will perform drainage swale repairs late in 2020.

APTIM will be performing routine swale repairs in 2021. In addition, the Navy is currently planning to remove the fencing in Parcel 4 in 2021 as well as armor the seawall at Metals Landfill and the lakefront wall at South Davis Road Landfill. This work would require the full 2021 field season to accomplish.

Mr. Peach indicated that the armoring of the Metals Landfill is routine work that the Navy conducts approximately every five years (2010, 2015, and next in 2021). However, the work at South Davis Road Landfill, located just south of the Recreation center, is new work. The intent of that work is to allow the Navy some flexibility in opening the spillway on the seawall. Currently, the Navy has to open the spillway in order to keep the lake levels low to protect the roads and the face of the landfill. If the lake levels rise, the landfill face erodes due to wave action, and the debris becomes exposed. This violates the CERCLA (Superfund) remedy for that location. Armoring the landfill face will allow the lake level to rise (i.e., the spillway to be blocked and not reopened) and while still meeting the requirements of the OU A ROD.

Mr. Garcia-Lata reported that Sealaska Environmental completed an IC site inspection and the Final Report is due to the Navy in May 2020.

Their scope included:

- a) Inspection of the Downtown Area for evidence of domestic well use or installation;
- b) Review of IC excavation notifications on file with the Navy and the City of Adak that were processed between October 2018 and September 2019;
- c) Inspection of the operation of the UXO Awareness videos at the school and airport; and
- d) Interview of on-island personnel regarding the IC Educational Awareness Program.

Sealaska is currently contracted to perform the 2020 annual inspections of the ICs in September 2020.

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

Mr. Garcia-Lata reported that Sealaska Environmental completed the monitoring event in 2019 and will be returning to Adak in 2020.

During the 2019 ongoing monitoring event, groundwater, surface water, and sediment samples were collected from 47 monitoring locations from 4 sites. Product thickness and depth to water measurements were performed at 49 locations. The summary report for 2019 will be finalized in June 2020 and recommendations will be made to alter the sampling program based on the results of laboratory analyses. It is anticipated that sampling continue as prescribed for 2020. The 2020 monitoring event is scheduled to begin in August 2020.

Data collected will provide input for the Fifth FYR.

**G. Information Repository Update**

Mr. Peach provided a summary of the repository status. As of April 2020, the following documents are ready to add to the Adak Information Repository at City Hall.

- A. 2019 Conceptual Site Model for Light Non-Aqueous Phase Liquid and Dissolved Petroleum Constituents Report
- B. 2019 Institutional Controls Effectiveness Technical Memorandum
- C. 2019 Free Product Recovery Summary Report
- D. 2019 OU B-2 NTCRA Completion Report
- E. 2019 OU B-2 Quality Assurance Surveillance Report

Based on office closures, mailing the repository update is on hold. The Navy would like to issue the update in July 2020 with additional documents, if possible.

**7. COMMUNITY REPORT**

Mr. Peach requested that Mr. Lockett provide an overview of the COVID-19 situation on Adak, specifically in the context of travel to Adak and Navy and contractors working on Adak. Mr. Lockett indicated that the best source of information currently is the State of Alaska Health Mandates 10 and 12. However, Mr. Lockett indicated that there will be a City Council meeting on April 21 and local requirements are going to be discussed. Mr. Lockett asked that the Navy consider 2021 in its COVID-19 planning in addition to 2020 and that specifically, the Navy and contractors should understand that the clinic will unlikely be available if any workers became ill, and that the Navy or contractors will need to be able to self-treat and self-quarantine.

Ms. Plant asked the RAB whether they wanted to bring forward any individuals as new RAB members or if any other RAB members had comments. There were none at this time.

## **8. REVIEW OF NEW ACTION ITEMS**

There are no new action items.

## **9. NEXT RAB MEETING**

Ms. Plant requested consideration of the scheduling for the next RAB Meeting. Mr. Peach offered the following suggestions to the RAB; either the first two weeks of September to coincide with the LTM IC sampling or in October when all fieldwork for the year is complete and preliminary impressions of results are available.

After discussion, the RAB agreed to tentatively schedule the RAB for Thursday September 10 at 5 PM Adak time.

Mr. Lockett made a motion to accept September 10 at this stage, subject to review. Ms. Smiloff seconded the motion and the RAB voted to approve the date, subject to review.

## **10. ADJOURN**

Ms. Plant asked if anyone had any closing comments and thanked the participants in the meeting. Mr. Peach also thanked the RAB members and other participants. Ms. Plant requested a motion to adjourn the meeting. Mr. Lockett made a motion to adjourn. The motion was seconded by Ms. Bennett. The RAB moved to adjourn at 6 PM Adak time.

## 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 (EPA)*	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 members.