



FINAL

Adak Restoration Advisory Board (RAB)

Meeting Minutes

April 28, 2022

Thursday, 28 April 2022
1:00 PM Adak, via Teleconference

1. WELCOME AND INTRODUCTIONS

Mr. Lockett called the meeting to order at 1 PM local time and, following roll call, welcomed attendees to the meeting.

The following persons were in attendance:

Name	Affiliation	Location
Aaron Vernik	RAB Member (Navy Co-Chair)*	Silverdale, WA
Layton Lockett	RAB Member (Community Co-Chair)	Adak, AK
Tom Spitler	RAB Member	Adak, AK
Jamie McKellar	RAB Member (ADEC)*	Anchorage, AK
Dustan Bott	RAB Member (EPA)*	Seattle, WA
Cory Herendeen	City of Adak	Adak, AK
Julie Motley	City of Adak	Adak, AK
Phillip Bennett	Adak Clinic	Adak, AK
Lisa Holsinger	City of Adak	Adak, AK
Matt Holsinger	City of Adak	Adak, AK
Scott Bullock	City of Adak	Adak, AK
Lyn Carden	City of Adak	Adak, AK
Angela Engelkes	City of Adak	Adak, AK
Tony Megliola	NAVFAC BRAC	San Diego, CA
Cathy Weber	NAVFAC NW	Silverdale, WA
Bob Boyd	NAVFAC NW	Silverdale, WA
Richard Ragle	USACE	Anchorage, AK
JoAnn Grady	Grady and Associates	Ashland, OR
Doug Schicho	APTIM	New Jersey
Tim Leahy	APTIM	Adak, AK
Jody Lipps	Battelle	Columbus, OH
Shawn Majors	Battelle	Eugene, OR
Oscar Broadway	Battelle	Adak, AK
Shawn Casey	Bristol	Anchorage, AK
Arlen Fisk	Bristol	Anchorage, AK

*non-voting RAB member

Mr. Lockett began the meeting confirming a quorum of the RAB membership was present (minimum 1/3 of RAB [i.e., 2 members]). A list of current RAB members is provided in Attachment A.

Ms. Jamie McKellar indicated that Mr. Darren Mulkey retired from ADEC. Ms. McKellar will be taking over the ADEC project manager role from Mr. Mulkey.

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

Review and Approval of Prior Meeting Minutes

Draft minutes from the September 23, 2021 RAB meeting were circulated to RAB members and interested parties on September 29, 2021 and again on March 28, 2022.

No edits were received. Mr. Lockett asked a motion be made to approve the minutes. Mr. Spitler motioned to approve the minutes. The motion was seconded by Mr. Lockett. The RAB voted to approve the minutes.

Review of Actions Items

Six action items were established during the last RAB meeting.

ACTION ITEM 1: The Navy will work to get the dig permit transmittal fixed on the Navy website.

STATUS: The Navy is continuing to troubleshoot the dig permit transmittal. Dig permits should be submitted to adakexcanot@navy.mil. **ONGOING**

ACTION ITEM 2: The Navy will inquire with Alaska Air if the video can be made available on flights to Adak, possibly through its Gogo Inflight system.

STATUS: The Navy inquired with Jim Bellinger, Airport Manager, regarding making the UXO awareness video available through the Gogo Inflight app. The request is to be elevated through the Alaska Airlines chain of command. The Navy will continue to pursue this action. **PENDING**

ACTION ITEM 3: The Navy will work with Sealaska on shifting the receipt of the QR origin IC surveys from Sealaska to the Navy.

STATUS: The Navy has identified that Microsoft® Forms was used to generate the QR code for the IC surveys. This service is within the Navy's suite of Microsoft capabilities. The Navy will work with the current LTM/IC contractor (EA) for generating the survey and QR code for the 2022 inspections. **COMPLETED**

ACTION ITEM 4: The Navy will add the IC survey QR code to the next version of the hiking trail map.

STATUS: The Navy will include the IC survey QR code on the next hiking trail map distribution which is scheduled for 2024. **COMPLETED**

ACTION ITEM 5: The Navy will inquire if GIS data are consolidated and how that can be made available.

STATUS: Inquiries were made with Naval Security Manager and the Public Affairs Officer (PAO) to release this information. At this time Navy does not have approval to release these data but will continue to follow up. **ONGOING**

Mr. Vernik indicated the Action Items that need additional follow up, and which are complete.

Regarding Action Item #3, a resident asked how the Navy advertises that IC surveys are being conducted. Mr. Vernik indicated that the contractor hands out business cards with the QR code on them and continues to advertise as they have done for the past two years (e.g., hung posters at the store and post office with the QR code). The contractor has had no problems getting the minimum number of people required to complete the surveys. Mr. Boyd pointed out that the contractor also puts out postings using the Nixle system and also on the Adak website.

Regarding Action Item #5, Mr. Lockett asked about getting GIS data for utilities which would be helpful to The Aleut Corporation. Mr. Vernik isn't sure if the GIS include utilities but will continue to pursue this action item (to incorporate layers such as utilities, buildings, and roads at a minimum).

Mr. Vernik reminded everyone that Justin Peach is now retired and will no longer be co-chair of the RAB for the Navy. The Navy internally recommended Mr. Vernik for co-chair. Mr. Vernik indicated that if any RAB member had an issue with him being co-chair to let him know and the Navy could appoint someone else. Although a RAB vote was not required, Mr. Lockett and Mr. Spitler indicated they are ok with Mr. Vernik being the Navy co-chair.

Mr. Lockett asked about the AECOM work and if GIS files from their work would be accessible to Adak. Mr. Vernik explained that AECOM was onsite doing GPR and there were pipelines identified that will be cleaned. Mr. Vernik added an action item to find out if there is GIS data with GPR finds and if the data will be available to the public.

3. USACE

Mr. Richard Ragle of the USACE Alaska District presented a summary of the work from the 2021 field season and provided an update on the 2022 activities planned.

Davis AFB Cantonment – F10AK0434-01

- A CON/HTRW Removal Action was completed in summer 2021. ADEC approved the Removal Action Report and the site closeout report.
- FUDS is moving forward with closure for this site.

Cape Yakak – F10AK0040-02/-03

- A Final Report was recently received for the HTRW RI with limited soil removal. There is a plan for a follow-on Phase 2 HTRW RI for FY2023.

Tanaga Island - F10AK0228-01

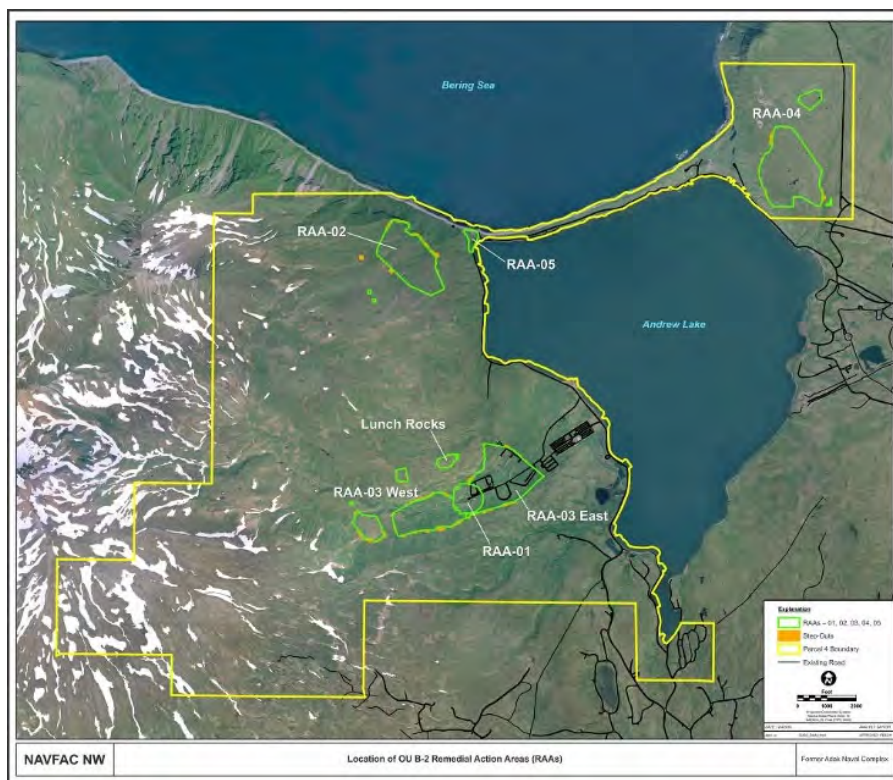
- Phase 3 HTRW RI and Risk Assessment Sampling are scheduled for June/July 2022.
- Phase 3 MMRP RI that had been planned for summer 2022 has been postponed until FY2023.

Ogliuga Island - F10AK0180-02

- Draft Phase 3 HTRW RI and Risk Assessment Report are scheduled to go out for review in the next month or so.
- FUDS is moving into a Feasibility Study, Proposed Plan, and Decision Document for this site.

4. MUNITIONS UPDATE

Mr. Vernik began with a summary of the non-time critical removal action (NTCRA) in Operable Unit B-2 (OU B-2), also known as Parcel 4, which has been on-going since 2013, and has five Remedial Action Areas (RAAs) that were established and have been completed as shown in the following figure. Additional disposal areas were identified east and west of RAA-05 and remain as active remediation areas.



APTIM has mobilized to Adak for the 2022 field season to continue the remediation effort. The 2022 work areas are shown on the first figure below.



The excavation at Andrew Lake Seawall (ALSW) is now 100% complete. The excavation planned for 2021 and 2022 at Andrew Lake Disposal Area (ALDA)-02 is approximately 37% complete.

The surface clearance at the far west of ALDA-02 is also complete.

Mr. Schicho went through the presentation in Attachment B to bring everyone up to speed on the current project to explain what was done in 2021 and what will be done in 2022.

Seawall Sweeps

Below is a summary of results of the seawall sweeps conducted since the start of the NTCRA in 2013.

MPPEH / MEC Recovered from Monthly Seawall Sweeps - 2013 through 2021

Year	MPPEH / MEC Finds
2013	33
2014	10
2015	29
2016	13
2017	4
2018	7
2019	17
2021 ¹	6
Total	119

Note 1: 2020 field season postponed due to COVID risk.

The Navy has been tracking the annual recoveries and had anticipated a decreasing trend in seawall recoveries as the shoreline dump areas have been removed. Although the number increased in 2019, two of the recoveries were in conglomerated clusters, and if those are viewed as single items (single blocks when found), then the model of decreasing finds is still valid, particularly with just six recoveries in 2021 at the start of the field season and none after May. Explosive Ordnance Disposal (EOD) Mobile Unit 11 will conduct seawall sweeps in spring and once the NTCRA is finished.

Mr. Schicho said that the first seawall sweep of the 2022 season was conducted last week and three MEC items were found. None of the items found were west of the seawall.

EOD Mobile Unit 11

Mr. Vernik summarized EOD Mobile Unit 11 from Naval Air Station (NAS) Whidbey Island will be conducting site visits in May and possibly again in the fall. Their scope includes checking the Finger Bay shoreline for cartridge activated devices (CADs) and performance of a seawall sweep as a quality assurance (QA) step. EOD Mobile Unit 11 will be on island on April 29 and will conduct the sweep the following week.

5. Operable Unit B-2 Record of Decision (ROD)

Mr. Vernik reported that the Alaska Department of Environmental Conservation (ADEC), Environmental Protection Agency (EPA), and the Navy are working to finalize the ROD for OU B-2. ADEC sent a Federal Facilities Agreement (FFA) extension request on December 13, 2021, extending the ROD completion deadline to June 30, 2022, in order for the ADEC/DoD/EPA subcommittee to reach agreement. Since the subcommittee has not reached a resolution, it is anticipated that an extension to the ROD completion date will be requested again in June.

The ROD is the next step in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process, following the Proposed Plan and Action Memorandum from early 2013 – which lay out the field work – and then the field work itself as conducted under the NTCRA. Basically, the ROD will formalize the remediation and closure goals and long-term management requirements for the areas within Parcel 4.

Overall, in terms of CERCLA, following completion of the NTCRA and the ROD, the Navy will prepare a Remedial Action Completion Report (RACR). Note: The RACRs for OU A and OU B-1 were completed in 2012 and 2014, respectively.

6. PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Ms. Catherine Weber of NAVFAC NW provided a summary of the status of the PFAS work on Adak Island.

PFAS Site Inspection

Sampling for PFAS compounds in the soil, groundwater, and surface water at Solid Waste Management Units (SWMUs) 16, 32, and 33 (the former Fire Fighting Training Areas) was conducted in September 2020. PFAS compounds were detected in soil, groundwater, and surface water. The following figure shows the investigation area and groundwater results.

Site Inspection Recommendation

The Site Inspection confirmed concentrations in groundwater above screening values. The Adak team recommends proceeding to a Remedial Investigation for co-located SWMUs 16, 32, and 33. Additional sampling is required to further characterize nature and extent of PFAS chemicals in groundwater and soil. ADEC and EPA provided comments to the Draft Site Inspection Report and the Navy has provided responses to comments that agencies have reviewed. The Site Inspection document will be finalized and the next step will be the Remedial Investigation.



OU A and SAERA Sites

The OU A and SEARA Closure Evaluation work has been continuing with the Navy evaluating additional SAERA sites on Adak to assess accelerating closure. The soil samples collected in 2021 are being evaluated as follows:

- Evaluate new data and calculate Method 3 soil alternative cleanup levels (ACLs) for sites in areas where new total organic carbon (TOC) data were generated.
- Compare existing and new soil data to ADEC-approved ACLs.
- Recommend closure for those sites with soil data below approved ACLs.
- Subsequent Navy actions will evaluate conditions of remaining sites and develop additional sampling or cleanup actions to meet the ACLs for soil.

Mr. Vernik clarified that OU A sites are the non-munitions sites on Adak. Of the OU A sites remaining, they are all petroleum sites. Mr. Vernik also explained that OU B-1

munitions sites have been closed, and OU B-2 contains munitions sites remaining in Parcel 4 property which is still owned by the Navy.

Well Decommissioning

The Well Decommissioning report has been approved by ADEC and EPA.

8. FIFTH FIVE-YEAR REVIEW (FYR)

Ms. Weber went over the recommendations in this FYR which primarily focus on addressing the petroleum issues along East Canal. In addition, the following recommendations were identified during the FYR and may improve performance of the remedy but do not affect current and/or future protectiveness:

- Excavation Notification: Any kind of soil disturbance requires an excavation notification regardless of depth and excavation method (including hand digging). Some soil disturbances occurred at sites without an excavation notification having been completed for the work.
- Fish Advisories: Based on the 2017 and 2020 marine tissue monitoring results, the current fish consumption advisories for Sweeper Cove will be maintained, and the advisory for rock sole from Kuluk Bay will be removed.

Protectiveness statements for OU A, SAERA, and OU B-1 sites are in the FYR. The FYR document was approved in December 2021 by EPA and ADEC. A fact sheet is being made available to the City of Adak for posting to the website as well as the Navy BRAC website.

9. PETROLEUM UPDATE

A. East Canal

Ms. Weber summarized the field work conducted to identify additional potential petroleum sources during the summer of 2021 in three phases. The information is currently being evaluated for presentation in a report to ADEC and EPA.

The purpose of this work was to identify previously unidentified potential petroleum source areas. The survey sought to identify pipelines through the area and compare to abandoned pipeline maps. This helped identify any pipelines that were previously unknown that could contain fuel. The survey also looked for other anomalies such as buried tanks or other features that may be present as a potential petroleum source. The figure shows the areas investigated.

The follow-on work has commenced, with the next phases of the investigation and remediation efforts occurring for the summer of 2022. The work to be conducted includes:

- Full-scale oleophilic bio-barrier (OBB) pilot test at SWMU 60 (Tank Farm A) to prevent free product from seeping into South Sweeper Creek (presented below)
- Pipeline decommissioning
- Drum removal
- Additional characterization in the pipeline decommissioning and drum removal areas

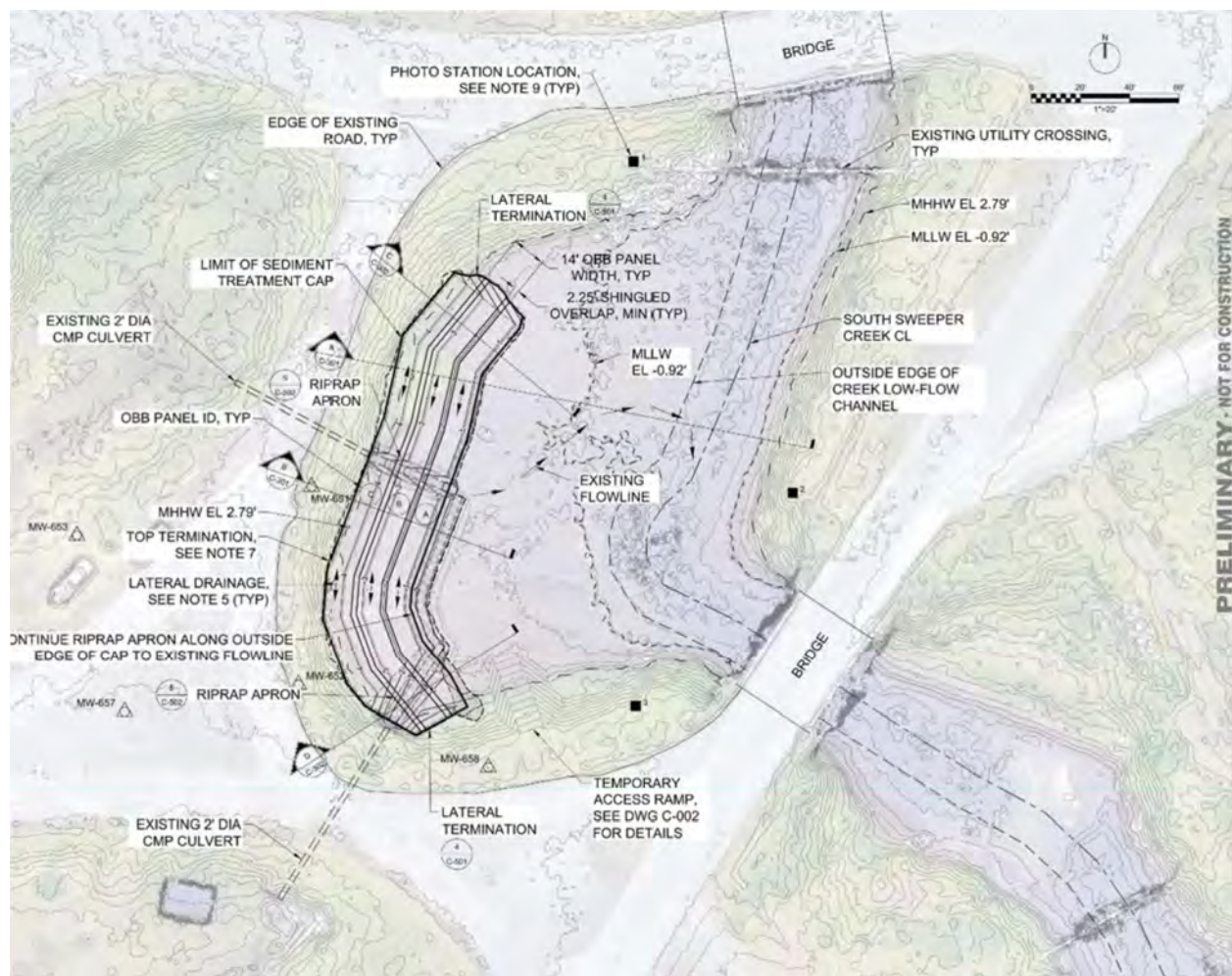
Based on the work conducted in the summers of 2021 and 2022, a comprehensive Remediation Work Plan will be developed to address the remaining petroleum impact in the East Canal and South of Runway areas.



B. SWMU 60: Remedial Design

Ms. Weber explained 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.

A remedy enhancement, an OBB, will be placed along the shoreline to mitigate sheen to surface water. This is intended to capture any sheen prior to reaching the surface water. Construction will take place in the summer of 2022.



C. Free Product Recovery Program

Mr. Boyd explained that EA 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.

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

Past 12-Month Recovery Periods	Total Product Recovered (gallons)
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 and September 2020	8.85
October 2020 to September 2021	6.38
October 2021 to December 2021	1.34

Recovery this reporting period has been from four wells at three different sites. Product has not been recovered from the three other sites during this period. Four wells were found to contain free product during well decommissioning activities and are to be added to the program.

A total of five booms are maintained during the monthly boom event. East Canal has three and Sweeper Creek has two. One former boom location is monitored for a sheen in East Canal.

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

A. Groundwater/Surface Water/Sediment Sampling

Mr. Boyd summarized the Navy annual sampling for 2021, which was contracted to Sealaska. The sampling was conducted from 19 to 26 August 2021. Activities included:

- Monitored and inspected 38 wells at three sites. Planned to sample 31 wells at the three sites but four wells had product at or above the thickness required for non-sampling so 27 were actually sampled.
- Collected two sediment samples at two sites.
- Collected one surface water sample at one site.
- Analyses included benzene, toluene, ethylbenzene and total xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), polycyclic aromatic hydrocarbons (PAHs), total lead, and dissolved lead.

Results of this sampling event will be used to refine future sampling events. The Internal Draft of the report is currently being reviewed by the Navy.

B. Dig Permits

Mr. Vernik summarized the Dig Permit program. The following Dig Permits are anticipated or have been received for upcoming 2022 field work:

- April 2022 – Aptim – Parcel 4 Munitions
- April-June 2022 – Bristol – South Davis Landfill Repair
- April-June 2022 – AECOM – South Sweeper Creek OBB
- Summer 2022 – City of Adak excavation around water treatment plant

As always, the Navy would like to thank the groups that submit dig permits.

C. Institutional Control (IC) Materials

Mr. Vernik explained that the Navy continues to make quarterly inquiries to 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 September and December 2021 and March 2022. Based on the responses received, the IC materials listed in the table below have been requested and will be distributed in late April. Groups represented are the Adak Airport and Aleutian Outfitters.

Item	Total Disbursed
Hiking Trail Maps	0
Laminated Hiking Posters	0
Boomer the Otter Posters	0
Mugs	55
Coloring Books	0
Large Magnets	0
Small Magnets	0
DVDs, Child	0
DVDs, Adult Visitor	0

Items will be distributed by Mr. Vernik in the next day or two.

The Navy trialed a QR code method of ordering materials in 2021 as an alternative to responding to an e-mail inquiry and would appreciate feedback on community preference. As of now, the Navy will continue using email as the preferred method of requesting materials.

D. Institutional Control Repairs and Inspections

IC Inspections

Mr. Vernik indicated that Sealaska performed the 2021 annual IC inspections between 26 August and 3 September 2021. This was a moderate IC inspection year. IC inspections were conducted at 28 sites, which included seven landfills and the Parcel 4 boundaries. No FYR sites were inspected, although they were inspected as part of that CERCLA process.

Inspections include looking for evidence of excavations, well installations for domestic use, erosion areas, change of site usage to residential, signage (still present and legible), fencing and gates, tampering with a remedy, seeps, odors, sheens, ponding, status of vegetation on vegetated caps, discoloration of landfill caps, manmade debris coming up through cap, review of previous findings, and if recommendations were completed.

IC surveys have been in a QR-code electronic format since 2020 due to COVID precautions. There is an informational sheet posted around town and a business card with a QR-code that links to the online survey.

The IC survey component used to include visiting the kids in the school. That is no longer done due to COVID precautions but Sealaska does verify that the teachers show the UXO video to the kids and some of them use the QR code to complete the survey.

Minor IC Repairs

Mr. Vernik explained that APTIM was contracted to perform the sign replacements last fall, but additional signs needed to be ordered, so all of the replacements will be accomplished in spring 2022. The Navy is evaluating whether to replace or simply remove the fencing at the Roberts and White Alice Landfills and has funding budgeted for one or the other action for the next major IC repair event. The determination to replace or remove fencing will be brought up at a future RAB meeting.

Major IC Repairs

Mr. Vernik explained that work at South Davis Road Landfill was originally planned for 2021, but has been pushed a year and is currently scheduled for 2022. Bristol Engineering, which has previously done work for the City of Adak, is under contract to perform that work. Bristol will be on island next week to begin blasting the upper quarry. They will also maintain the road that they will be using.

An Adak citizen asked if a rock crusher will be used to generate road material for South Davis Landfill. Mr. Fisk from Bristol indicated that the materials will provide bedding and service stone. The quantity generated will not be much and will be a byproduct of the material making. Bristol will not be bringing a rock crusher to the island.

A second question was asked about the north side of Metals Landfill (south of Kuluk Bay) where a storm exposed metallic debris, and whether this area could be armored as

well. Mr. Vernik indicated that the Navy is aware of this metallic debris and the contractor will determine whether it is part of Metals Landfill (it is possibly part of the base of a pier) at the next IC inspection. If it is part of the landfill, it will be looked at soon. It would be a major IC repair and it wouldn't be addressed quickly (due to the need to plan and budget for it). If it is a critical issue, it will be addressed sooner.

F. Repository Update

Mr. Vernik indicated that the repository update for 2022 will occur towards the end of 2022.

11. COMMUNITY REPORT / RAB MEMBERSHIP

Mr. Lockett explained that there is a need for more RAB members as there are only six current members. Mr. Lockett asked if there was any interest in joining the RAB. Mr. Matt Holsinger, Ms. Lisa Holsinger, Ms. Julie Motley, Mr. Phillip Bennett, and Ms. Angela Engelkes all indicated that they were interested in joining the RAB. Mr. Lockett motioned to add the five new members to the RAB and Mr. Spitler seconded the motion.

Mr. Holsinger wanted to thank APTIM for all the work (especially volunteer work) they have done for the city and other entities. Mr. Holsinger asked if this was their last season in Adak. Mr. Schicho said that he appreciated their kind words and confirmed that this is the last MMRP work APTIM will be doing, and they are wrapping up RAA-05 which is the extent of the munitions removal. Mr. Vernik added that once the munitions work is complete EOD will continue to do seawall sweeps two times a year for a few years and that frequency will decrease over time. The Navy's goal is to turn the property over to the Department of the Interior which will be a long process.

An Adak citizen asked if the Navy will continue to open the spillway after munitions work is done. Mr. Vernik does not think the Navy will continue to open the spillway once munitions work is complete (as it was blown so munitions work could be done). The lake levels may rise which is why it is important to armor around South Davis Landfill.

Mr. Lockett asked if any RAB member would be interested in taking over as the RAB co-chair. Ms. Engelkes volunteered to be the next RAB community co-chair. Mr. Spitler motioned and Mr. Holsinger seconded. There were no objections. Ms. Engelkes is now the RAB community co-chair.

12. REVIEW OF NEW ACTION ITEMS

Action items 1, 2 and 5 from the September 2021 RAB are being carried over.

New Action Items:

#1. The Navy will look into whether the AECOM GPR data will be available to the public.

#2. The Navy will look at the exposed metallic debris near Metals Landfill to determine if any immediate actions need to be taken.

13. NEXT RAB MEETING

Mr. Vernik asked if the community would like to keep with the 1:00 pm local time for the next RAB. No one objected to keeping the RAB at 1:00 pm local time.

The next RAB will be held on Sept 22nd at 1:00 pm.

14. ADJOURN

Mr. Holsinger motioned to adjourn the RAB meeting. It was seconded by Ms. Holsinger. The meeting was adjourned at 2:24 pm.

Attachment A**Current RAB Membership
April 2022**

Name	Affiliation	Location	Voting Member
Angela Engelkes	RAB member (Community Co-Chair)	Adak, AK	1
Layton Lockett	RAB member	Adak, AK	2
Ben Leon-Guerrero	RAB member	Anchorage, AK	3
Elaine Smiloff	RAB member	Adak, AK	4
Jack Stewart	RAB member	Adak, AK	5
Kim Turnbull (Mik)	RAB member	Adak, AK	6
Tom Spitler	RAB member	Adak, AK	7
Matt Holsinger	RAB member	Adak, AK	8
Lisa Holsinger	RAB member	Adak, AK	9
Phillip Bennet	RAB member	Adak, AK	10
Julie Motley	RAB member	Adak, AK	11
Dustan Bott	RAB member (USEPA)*	Seattle, WA	
Jamie McKellar	RAB member (ADEC)*	Anchorage, AK	
Aaron Vernik	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.

Adak website:

https://bracpmo.navy.mil/brac_bases/other_west/former_naf_adak.html

Attachment B
Munitions Presentation

ADAK OPERABLE UNIT (OU) B-2 NON-TIME CRITICAL REMOVAL ACTION

CTO-4977 – 2022 Path Forward



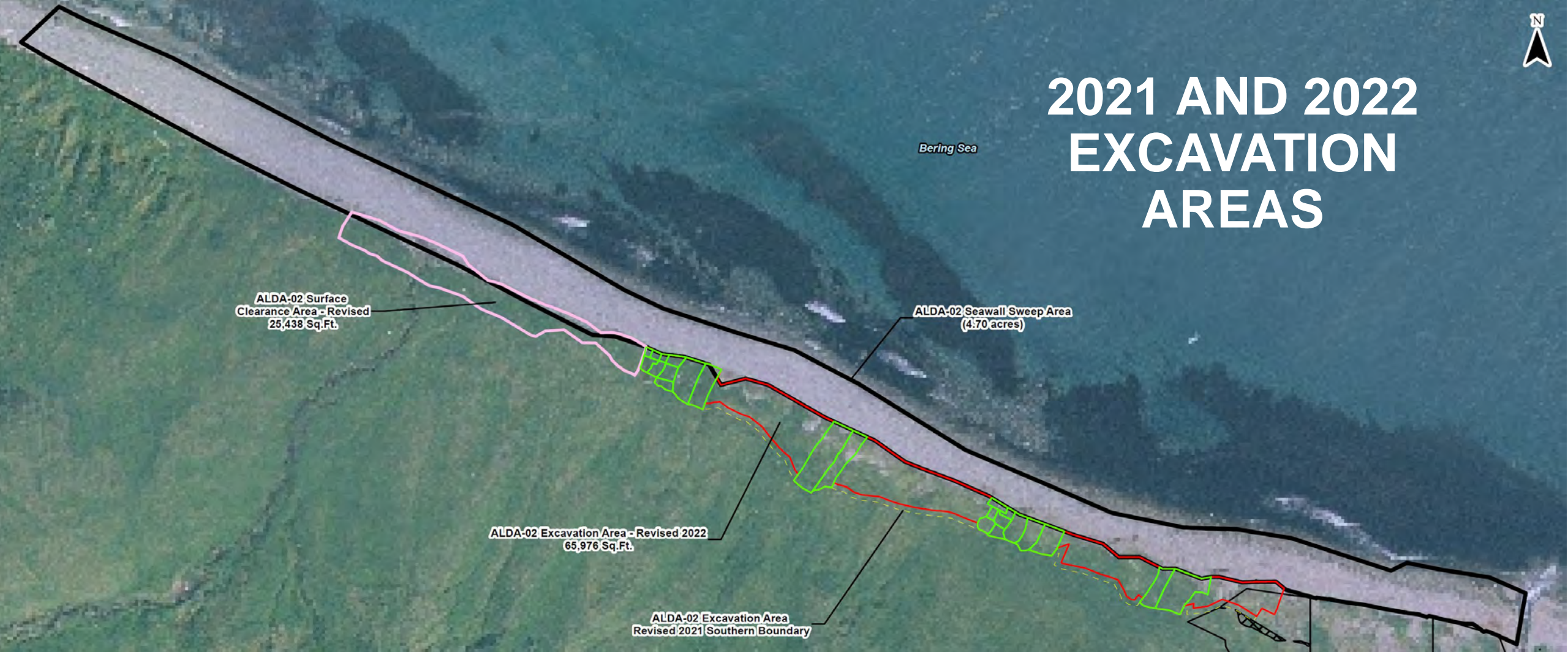
CTO-4977 PROJECT SCOPE (2022 FIELD SEASON)

- ▶ Scope of Field Work
 - > Excavation and clearance of disposal areas to depth of detection the west side of Andrew Lake Spillway (ALDA-02)
 - > Continuation of 2021 season with remotely operated excavators
 - > Monthly seawall sweeps
 - > Routine repairs to landfill drainage features and signage
- ▶ Reporting
 - > Completion Report for Metals Landfill and Fence Removal, in review
 - > Interim Completion Report for RAA-05 Munitions Removal for 2021 season, in review
 - > Final Completion Report will be submitted at the conclusion of the 2022 season





2021 AND 2022 EXCAVATION AREAS



LEGEND
- - Road
 Inaccessible Area
 RAA-05 ALDA Grid Completed

RAA-05/ALDA-02
2019/2021 Work Areas
 Seawall Sweep Area

ALDA02 Surface Clearance Area - Revised
 ALDA02 Excavation Area - Revised 2022
 ALDA02 Excavation Area - Revised 2021 Southern Boundary
 Completed Trenches in 2021



SURFACE CLEARANCE COMPLETED 2021/PLANNED 2022

Site	Surface Clearance Area Total (square feet)	Surface Clearance Area Completed 2021 (square feet_%)		Surface Clearance Area Planned for 2022 (square feet)
RAA-05 ALDA-02	25,438	25,438	100%	0



CTO-4977 WORK COMPLETED PREVIOUSLY AND PLANNED FOR 2022

Clearance of trenches by excavation

Site	Excavation Area Total (acres)	Excavation Area Completed (acres_%)		Excavation Area Planned 2022 (acres_%)	
RAA-05 ALDA-02	1.51	0.56	37%	0.95	63%
RAA-05 ALSW	1.00	1.12	112%	0	0%

Munitions and Metallic Scrap Removed

	Total Completed	MPPEH (each)	MEC (each)	MDAS (lbs.)	Other Debris (lbs.)
2019 Totals		459	1,367	30,422	59,765
2021 Totals		933	380	22,479	30,721
Project to Date Totals		1,392	1,747	52,901	90,486



CTO-4977 2021 ALDA-02 FINDINGS

- ▶ MEC present in all trenches in ALDA-02, but in reduced numbers in the western part of the site
- ▶ Seawall sweeps were conducted monthly April through October (seven events). No items from May through October (last 5 events)



RAA-05 ALDA-02



SITE SETUP APRIL 2022



20220402

IN SUMMARY

- ▶ Remobilized between March 26 and April 2, 2022
- ▶ Site set up completed by April 4, 2022
- ▶ Excavations started on April 5, 2022
- ▶ Total 2022 staffing: 40 people including field management, medic, equipment operators, and UXO techs
- ▶ Work anticipated to continue until late September 2022



QUESTIONS

Chris Generous

BEC/Senior RPM - Adak

NAVFAC NW

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Expect the Extraordinary.