



Adak Restoration Advisory Board (RAB) Meeting Materials 22 September 2022

Thursday, 22 September 2022

1:00 PM Adak, 2:00 PM Anchorage, 3:00 PM Seattle, 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 28 April 2022 RAB Meeting were circulated to RAB members and interested parties on 17 June 2022 and again on 24 August 2022.

Any additional comments?

Request motion to approve.

Review of Actions Items

The following action items are from the 28 April 2022 meeting:

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

STATUS: The Navy is continuing to troubleshoot the dig permit transmittal process. The transmittal is currently on the new Navy BRAC website but the functionality still needs to be fixed. Until the functionality is restored, dig permits should be submitted via e-mail 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 unexploded ordnance (UXO) awareness video available through the Gogo Inflight app. The Navy also forwarded the video to Station Manager, Julie Motley. 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 inquire if geographic information system (GIS) data are consolidated and how that can be made available. Additionally, Mr. Layton Lockett asked if data related to utilities in town could be located and shared.

STATUS: Inquiries were made with Naval Security Manager and the Public Affairs Officer (PAO) to release this information. At this time, the Navy does not have approval to release these data but will continue to follow up. Additionally, the Navy does not maintain data on infrastructure for closed former installations so there are no data on utilities currently within the Navy's electronic data file system. **ONGOING**

(NEW) ACTION ITEM 4: The Navy will look into whether the AECOM ground penetrating radar (GPR) data will be available to the public.

STATUS: When the completion report is finalized, the data will be included. The follow up with Action Item 3 above will also include the possible release of these data.

(NEW) ACTION ITEM 5: The Navy will look at the exposed metallic debris near Metals Landfill to determine if any immediate actions need to be taken.

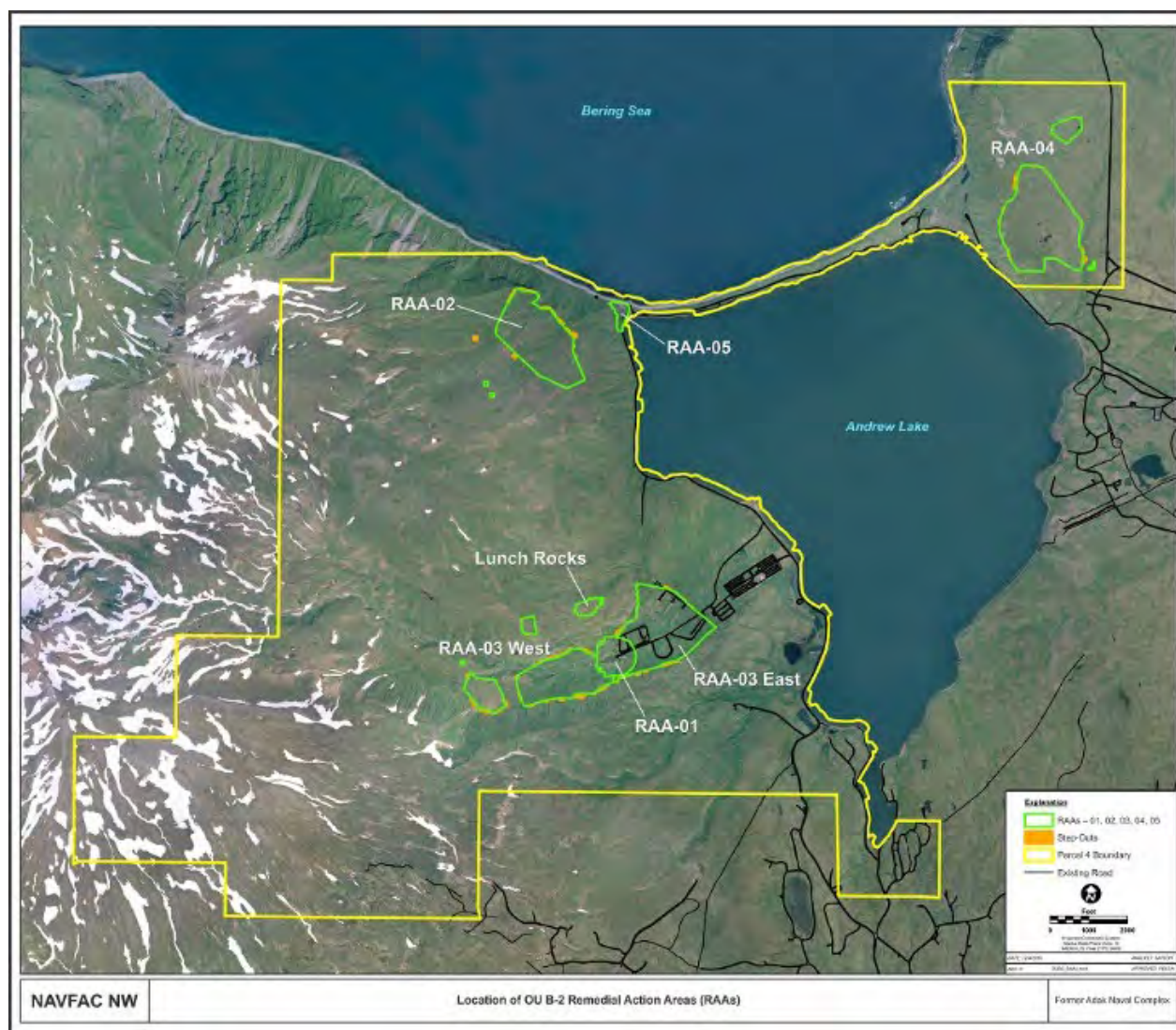
STATUS: The Navy visited the site and determined that the material emanating from the bank to the north of Metals Landfill was not part of the landfill. It is debris that is part of a larger area of piles containing debris such as wood, metal, and broken glass. The inquiry asked if some armor rock could be placed similar to what was being done at the South Davis Road Landfill. This could not be completed by the contractor as it was not included in their scope. No further action is warranted at this time.

3. USACE

Mr. Richard Ragle of the United States Army Corps of Engineers (USACE) Alaska District will present an update on the 2022 activities conducted at sites nearby.

4. MUNITIONS UPDATE

The non-time critical removal action (NTCRA) in Operable Unit B-2 (OU B-2), Parcel 4, which has been ongoing since 2013, 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. The area to the west of RAA-05 remains an active remediation area.



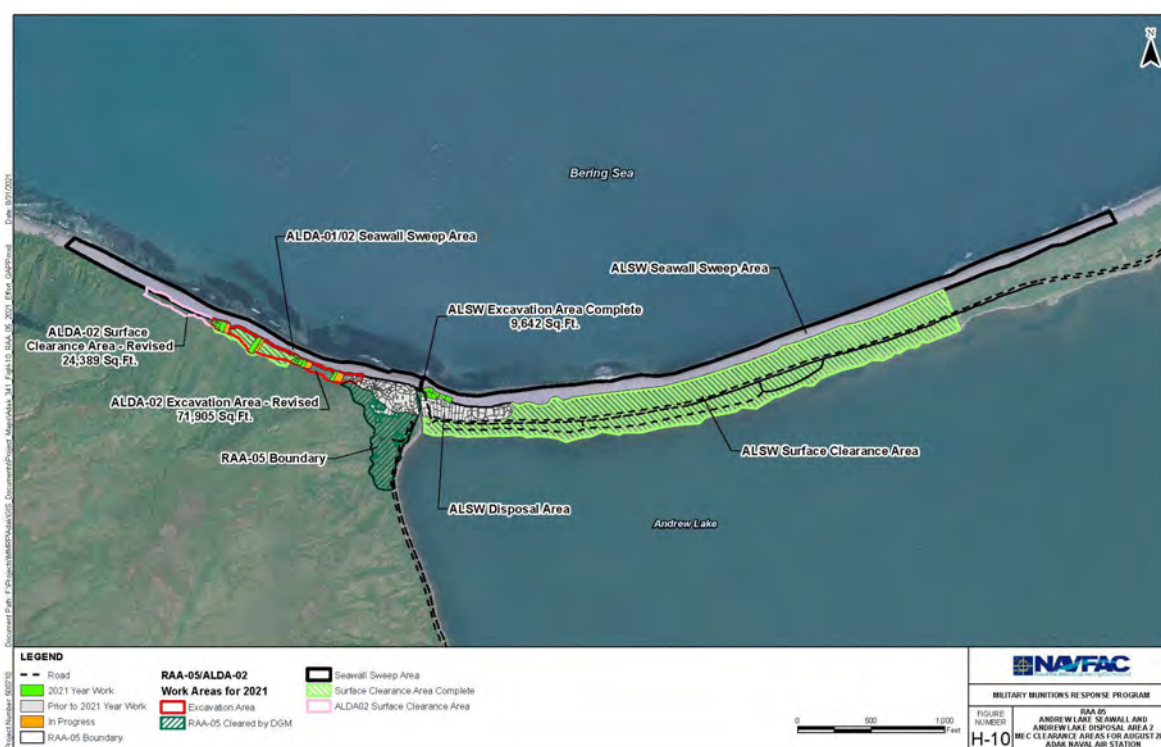
Recoveries through the 2022 field season are presented in the table below.

	2013	2014	2015	2016	2017	2018	2019	2021 ¹	2022 ³	Total
MPPEH/ MEC² (items)	2,656	514	2,214	984	2,435	8,040	1,826	1,313	1,803	21,785
Munitions Debris (lbs)	22,084	22,250	10,495	7,733	23,387	18,356	30,422	22,479	51,116	208,322
Metal Debris (lbs)	80,316	22,850	24,633	62,998	45,401	25,040	59,765	30,721	20,718	372,442

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

Note 2: MPPEH is material potentially presenting an explosive hazard, MEC is munitions and explosives of concern and could include discarded military munitions (DMM) and unexploded ordnance (UXO).

Note 3: Total quantities for 2022 are through August 20, 2022.



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 62% complete. The surface clearance at the far west of ALDA-02 is also complete.

Information on the planned work for 2022 is included in the APTIM presentation (see Attachment B).

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 August 2022	
Year	MPPEH / MEC Finds
2013	33
2014	10
2015	29
2016	13
2017	4
2018	7
2019	17
2021 ¹	6
2022	3 ²
Total	122

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

Note 2: 2022 recovery quantity is through August 20, 2022.

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 and only three discoveries since April 2022. Explosive Ordnance Disposal (EOD) Mobile Unit 11 will conduct seawall sweeps once the NTCRA is finished.

EOD Mobile Unit 11

EOD MU 11 from Naval Air Station (NAS) Whidbey Island will be conducting their second site visit of 2022 in September. 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.

5. OPERABLE UNIT (OU) B-2 RECORD OF DECISION (ROD)

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 extension request on 13 December 2021, extending the ROD completion deadline to 30 June 2022 in order for the ADEC/Department of Defense (DoD)/EPA

subcommittee to reach agreement. Since the subcommittee has not yet reached a resolution, an additional extension has been agreed to by all parties to 31 December 2022.

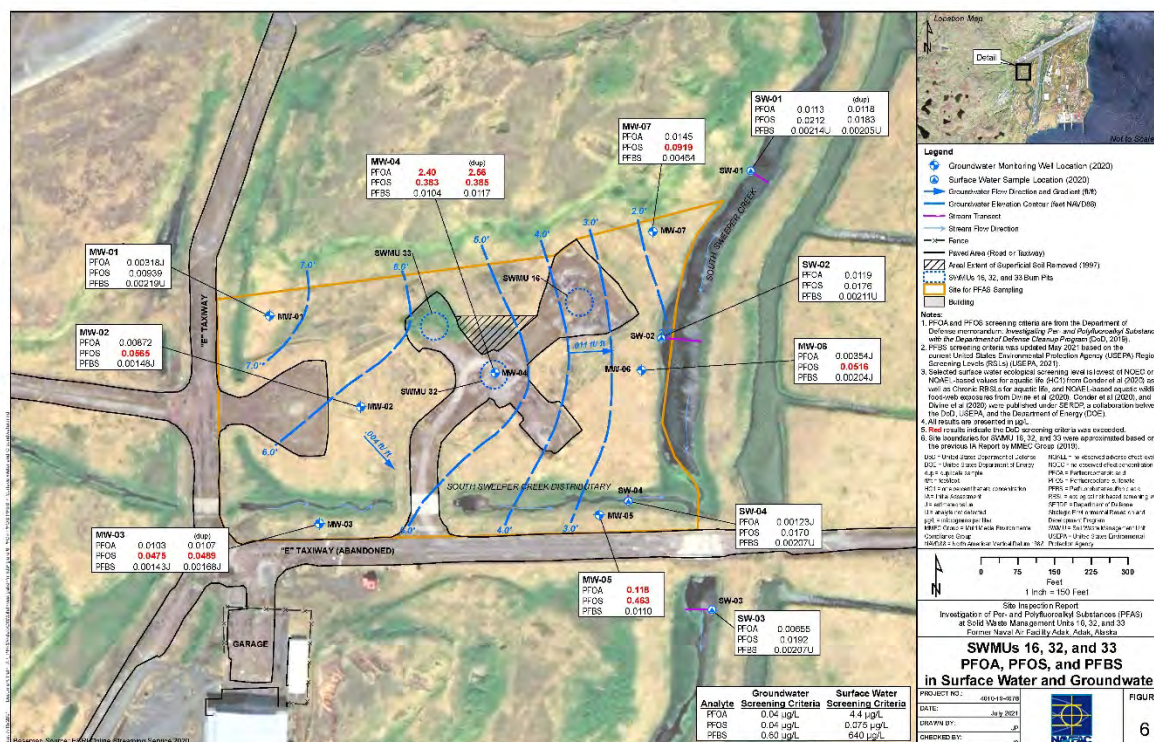
The ROD is the next step in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process, following the Proposed Plan and Action Memorandum from early 2013 – which lay out the field work – and then the field work itself as conducted under the NTCRA. The ROD will formalize 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)

A. PFAS REMEDIAL INVESTIGATION (RI)

The Site Inspection (SI) Report for PFAS at Solid Waste Management Units (SWMUs) 16, 32, and 33 (the former Fire Fighting Training Areas) was finalized and will be available at the Navy's Administrative Record (AR).



The SI confirmed concentrations in groundwater above screening values. The Adak team is proceeding to a Remedial Investigation (RI) to further characterize nature and extent of PFAS chemicals in groundwater and soil.

7. OU A AND STATE-ADAK ENVIRONMENTAL RESTORATION AGREEMENT (SAERA) CLOSURE EVALUATION

A. SAERA Sites Closure Evaluations

This task order is proceeding with additional SEARA site closure evaluations. Soil sample results from 2021 have been evaluated as follows:

- Method 3 soil Alternative Cleanup Levels (ACLs) have been calculated for sites in areas where new total organic carbon (TOC) data were generated.
- Compared existing and new soil data to ADEC-approved ACLs.
- Recommending closure for up to 10 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.

8. PETROLEUM UPDATE

A. East Canal and SWMU 60

Fieldwork was conducted to investigate additional potential petroleum sources, as well as implement a remedy enhancement at SWMU 60 to address and remediate continued petroleum seepage. Pipelines were identified for decommissioning and anomaly features that may present potential petroleum sources were investigated. The figure shows the general areas where pipelines were decommissioned as well as the crushed drum removal area. Drums were generally found to be flattened with no contents and no significant petroleum sources were identified.

The following work was completed:

- 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.
- Crushed drum removal.
- Additional soil characterization in the pipeline decommissioning and drum removal areas.

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



B. SWMU 60: Remedy Enhancement Construction

SWMU 60 is located at the bend in South Sweeper Creek as it moves east towards Sweeper Cove. The remedy in place 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 oleophilic bio-barrier (OBB), has been placed along the shoreline to mitigate sheen to surface water. This is intended to capture any sheen prior to reaching the surface water. Construction work was completed in the summer of 2022. Preliminary observations have shown that downgradient boom from the OBB has no evidence of sheen since the OBB was installed.



Photo of Oleophilic Bio-Barrier during construction on July 11, 2022

C. Free Product Recovery Program

EA Engineering, Science, and Technology, Inc. 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 the previous 12-month period 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 to September 2020	8.85
October 2020 to September 2021	6.38
October 2021 to July 2022	4.90

Recovery this reporting period has been from five wells at five different sites. Product has not been recovered from the three other sites during this period.

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. Boom location 10 has been modified following the completion of the OBB installation.

9. LONG-TERM MONITORING UPDATE (LTM) AND INSTITUTIONAL CONTROLS (ICs)**A. Groundwater/Surface Water/Soil Sampling**

The Navy annual sampling for 2022 has been contracted to EA. The sampling will be conducted between August 24 and September 17. Activities will include:

- Monitor and inspect 119 wells at 15 sites. Plans are to sample 71 wells at 13 sites.
- Collect five sediment samples at three sites.
- Collect 10 surface water samples at three sites.
- Analyses include benzene, toluene, ethylbenzene and total xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), polycyclic aromatic hydrocarbons (PAHs), and total and dissolved metals.

Results of this sampling event will be used to refine future sampling events.

B. Dig Permits

Mr. Steven Skeehan of NAVFAC NW to give a summary of the Dig Permit program. The following Dig Permits have been submitted since the last RAB meeting for upcoming fieldwork:

- April 2022 – City of Adak – Ditch maintenance and installation of a culvert by the water treatment building
- May 2022 – AECOM – Work at SWMU 60, Former Power Plant, Building T-1451, and East Canal for investigation work
- May 2022 – ADOT – Installation of a gate
- July 2022 – TDX – Emergency repair of in-ground power lines near Bayshore Housing
- August 2022 – Larry Mayes – New building construction
- September 2022 – Bristol Engineering – Wastewater Treatment Plant

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

Requirements for dig permits in the downtown area are changing based on recommendations included in the Five-Year Review. All excavations, regardless of depth, in the downtown area will now require an excavation notification (dig permit). Signs will be updated and those indicating only excavations below 2 feet require a notification will be removed. The phone number and notification form remain unchanged.

C. IC Materials

The Navy continues to make quarterly inquiries to provide IC materials to the community. 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 July 2022. Based on the responses received, the IC materials listed in the table below have been requested and have been distributed. Groups represented are the Adak Island Inn, United States Fish and Wildlife Service (USFWS), and the 100 Knot Stop.

Item	Total Disbursed
Hiking Trail Maps	200
Laminated Hiking Posters	2
Boomer the Otter Posters	0
Mugs	10
Coloring Books	45
Large Magnets	0
Small Magnets	20
DVDs, Child	0
DVDs, Adult Visitor	25

The Navy will continue a quarterly e-mail inquiry and would appreciate feedback on community distribution.

D. IC Inspections

EA will perform an abbreviated IC inspection program in 2022 during the LTM fieldwork. IC inspections will focus on the downtown area and the UXO education program.

Inspections will include looking for evidence of excavations, well installations for domestic use, change of site usage to residential, signage (still present and legible), review of previous findings, and if recommendations were completed in the downtown area.

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 includes visiting the kids in the school (when allowed). EA verified that the teachers show the UXO video to the kids and some of them use the QR code to complete the survey.

E. Institutional Control Repairs**Minor IC Repairs**

APTIM has been contracted to perform the sign replacements. New signs are on order and the replacements will be installed later this season. The Navy is continuing to evaluate 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.

Major IC Repairs

Work at South Davis Road Landfill was completed in August 2022. Bristol Engineering, which has previously done work for the City of Adak, completed the work on budget and ahead of schedule. The work consisted of the installation of rock revetment to armor the shoreline against erosion caused by wave action on Andrew Lake. A photo of the finished revetment is below.

**F. Repository Update**

The repository update for 2022 will occur towards the end of 2022.

10. COMMUNITY REPORT / RAB MEMBERSHIP

The RAB membership has increased to 11 voting members. If any additional members of the community wish to join the RAB, please contact a RAB member or co-chair.

11. REVIEW OF NEW ACTION ITEMS**12. NEXT RAB MEETING**

The tentative date for the next RAB Meeting is late April 2023. The date and time of the next RAB Meeting will be determined by the RAB but is suggested for 27 April 2023.

13. ADJOURN



Adak Restoration Advisory Board (RAB) Meeting Materials 22 September 2022

Attachment A

Current RAB Membership September 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	Adak, 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)*	Fairbanks, AK	
Chris Generous	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.

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 Status Update



CTO-4977 PROJECT SCOPE

- ▶ Scope of Field Work
 - > Excavation and clearance of disposal areas on the west side of Andrew Lake Spillway (ALDA-02) and east side of Andrew Lake Spillway
 - > Surface clearance on the periphery of the disposal areas
 - > Monthly seawall sweeps
 - > Routine repairs to landfill drainage features and maintenance of signage
- ▶ Reporting
 - > Completion reports at the end of each season reviewed/approved by Navy, ADEC, and USEPA

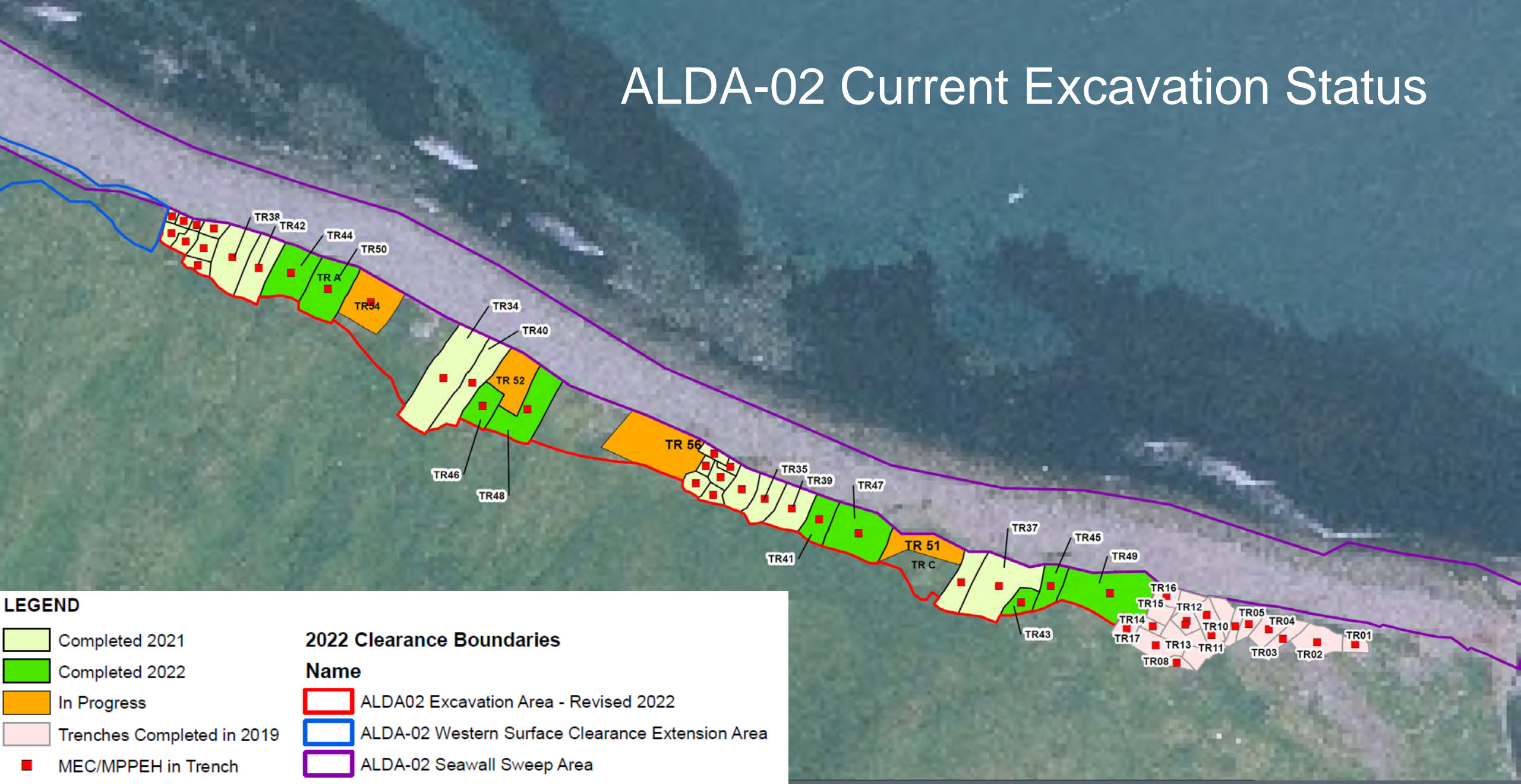


RAA-05

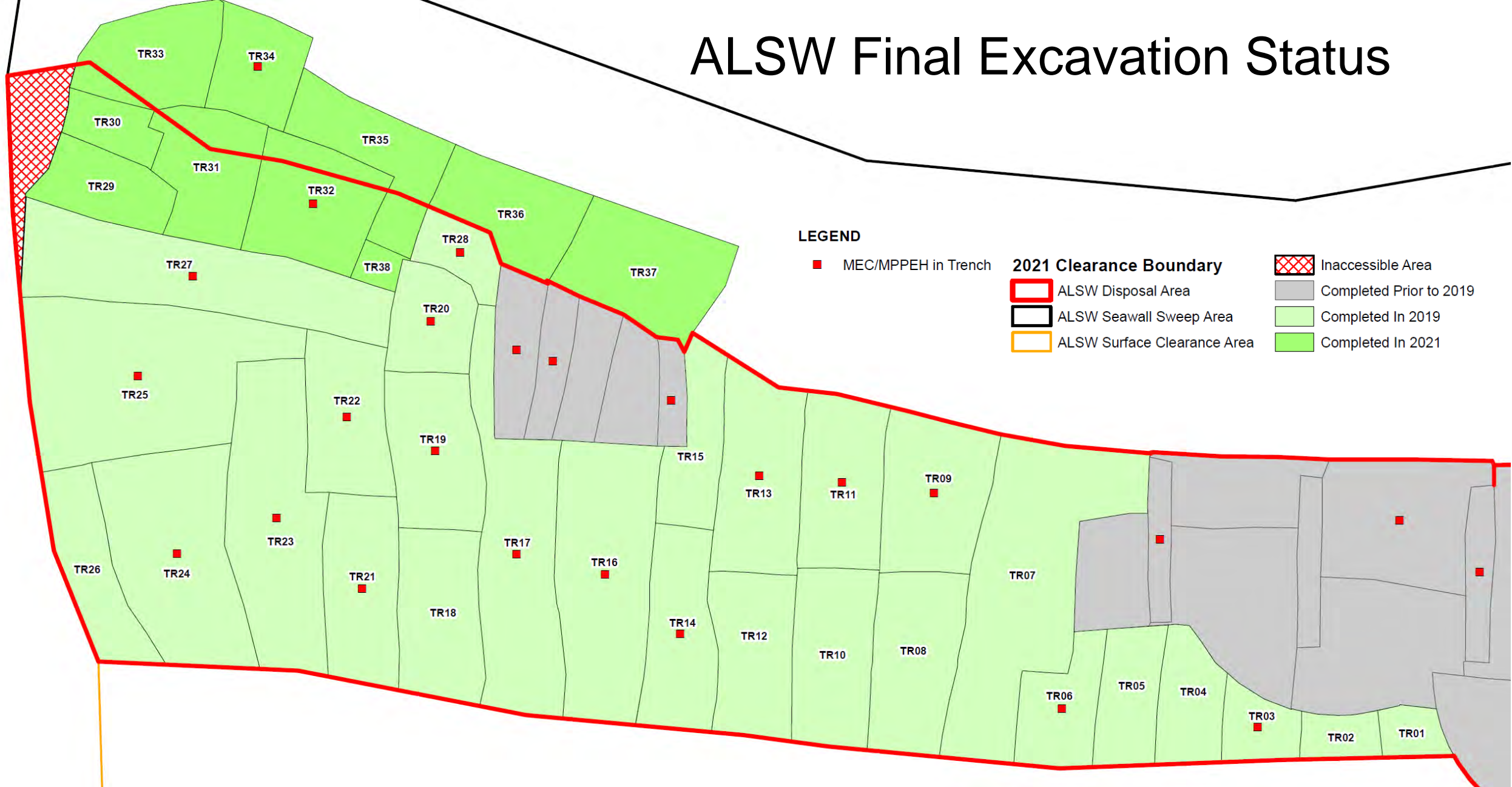
ALDA-02

ALSW

ALDA-02 Current Excavation Status



ALSW Final Excavation Status



CTO-4977 TRENCH EXCAVATIONS COMPLETED

Site	Year Work Performed	Number of Trenches Completed	Excavation Area Completed (acres)
RAA-05 ALDA-02	2019	17	0.26
	2021	23	0.56
	2022 ^a	9	0.43
RAA-05 ALSW	2019	28	0.90
	2021	10	0.22

a – status through 8/20/22



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
2022 Totals ^a	1,070	733	51,116	20,718
Project to Date Totals	2,462	2,480	104,017	111,204

a – status through 8/20/2022

Material Potentially Presenting and Explosive Hazard (MPPEH), Munitions and Explosives of Concern (MEC), Material Documented as Safe (MDAS)



CTO-4977 2022 ALDA-02 FINDINGS

- ▶ MEC present in all trenches in ALDA-02, but in reduced numbers in the western part of the site
- ▶ 75% of MEC/MPPEH was removed from the eastern 25% of ALDA-02
- ▶ Seawall sweeps were conducted monthly April through August (five events). Three items found in April 2022. No items from May through August (last four events)



IN SUMMARY

- ▶ Remobilized between March 26 and April 2, 2022
- ▶ Site set up completed by April 4, 2022
- ▶ Excavations started on April 5, 2022
- ▶ Work is currently ongoing
- ▶ Work anticipated to continue until mid-October 2022



QUESTIONS

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BEC/Senior RPM - Adak

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Expect the Extraordinary.