

RESTORATION ADVISORY BOARD MINUTES

January 11, 2022

The Restoration Advisory Board (RAB) meeting was called to order by Jen Busard at 9:01 a.m. on 11 January 2022. Due to the pandemic, this meeting was held virtually over MS Teams. Elyn Holton-Dean has resigned from the RAB so Jen announced that she is looking for a volunteer to co-chair the RAB.

Minutes Review

Bruce Workman had one correction to the minutes from October 2021 and he had previously emailed that to Jen to incorporate. Jen said she has already fixed it in the minutes. There were no other corrections and also no public comments.

Agenda Review

The January 2022 agenda was accepted as written.

Environmental Services Update

Jeff Morrison of Jacobs presented an update on the two projects his team is working on: Environmental Services at IAAAP, and the Remedial Action at Operable Unit (OU)-3.

Jeff shared a slide with a list of the current OUs at IAAAP to remind everyone since those are discussed heavily during the presentations. Three new operable units have been proposed (OU-10 through OU-12). He then updated the team on where the various Remedial Investigation (RI) reports stand for the Jacobs team:

- Held Technical Planning Process meeting with EPA in November to scope additional fieldwork at OU-11 and OU-12 sites. Currently working on Quality Assurance Project Plan (QAPP) Addendum.
- Held risk assessment meeting with EPA in November to discuss EPA comments on Draft Final RI for OU-4. Received EPA follow-on comment in December 2021.
- Received Army comments on Internal draft RI for OU-10 and are working on RTCs. Awaiting Army comments on Internal draft RI for OU-6.
- Prepared Background Threshold Value (BTV) technical memo for soil and submitted for Army review in December.
- Conducted annual groundwater sampling at Trench 5 (OU-4) for RCRA this past November.
- Finalized Project Management Plans (PMP) and Contractor Quality Control Plans (CQCPs) in early December.
- Updated Accident Prevention Plans (APP)/Site Specific Health and Safety Plans (SSHP) for upcoming field activities this year at OU-11 and OU-12.
- Began evaluating protectiveness of five metals (antimony, cadmium, hexavalent chromium, thallium, and mercury) under OU-1 per the

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recommendations in the 2021 Five-Year Review.

Jeff then updated the team on in-progress activities:

- Select QAPP worksheets for OU-11 and OU-12
- Annual groundwater sampling report for Trench 5 (OU-4)
- RTCs to EPA and Final RI Report for OU-4
- Internal Draft FS Addendum for OU-9

Julie asked about data gaps and were there any actions necessary because some issues needed actions. Jeff answered that one site at OU-11 (19 of the 20 sites) did not pose threats to human health and the environment. At Line 6 there was a data gap for manganese. The data was old so the first step will be to resample those monitoring wells, and to collect manganese samples from nearby wells to see if that metal is in fact an issue at that site. OU-12 was different since there was not as much historical data at those sites. Need some additional data to delineate the soil and groundwater contamination.

Jeff provided an update about the Site Inspection (SI) that is underway for emerging contaminants called per- and polyfluoroalkyl substances (PFAS) at IAAAP:

- Five newly installed monitoring wells and 10 existing monitoring wells were sampled at the former Fire Station, Fire Training Pit (FTP), and the IDA in December 2020.
- Addressed technical comments on internal draft PFAS SI and submitted for Army Legal reviews in December.
- Due to screening level exceedances, additional investigations are anticipated to occur in the future.
- A fourth site (new Fire Station) was included in the revised Final PA report and will be addressed in an SI Addendum.

The Draft SI report is undergoing Army legal reviews.

OU-3 Optimized Remedial Action

Jeff provided an update on the OU-3 Optimized Remedial Action project, which is for the enhanced bioremediation at the off-post RDX plume.

- Finalized Optimized Remedial Design for OU-3 in spring 2021.
- Jacobs awarded new contract to implement the additional bioremediation injections within the 50 ug/L RDX “hot spot” area (approximately 20 new injection locations).
- Began project planning (PMP/CQCP) and master project schedule for RA

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and performance monitoring.

Jeff showed figure of the area with the RDX hotspot underneath US Hwy 61 and the proposed injection well locations for the remedial action. He then summarized the activities underway since the previous RAB meeting:

- Jacobs and Aerostar teams met in December to discuss most recent GW/SW monitoring data.
- Updating Accident Prevention Plans (APP)/Site Specific Health and Safety Plans (SSHP) for upcoming field activities this year at OU-3.
- Jacobs began working with Iowa Department of Transportation (DOT) on the permit process and will work on Traffic Control Plan this month.
- Planning for spring mobilization for injection well installation and baseline groundwater sampling.

Mark Hagerla asked what the substance was that we are injecting at OU-3, and Jeff explained that it was carbon source for the microorganisms to enhance the biodegradation of RDX contamination. Kellie Christ asked Jeff to spell the Lactoil product so that she could look it up online.

Jeff then presented an update on some other work being conducted on behalf of USACE Louisville District.

Contaminated Soil Remedial Design Project

Tony Finch of TAC Associates is working on Building Demolition Sampling for the IRP program. Planning documents for the Contaminated Soil Remedial Design project prepared and submitted:

- Planning documents for the Contaminated Soil Remedial Design project prepared and submitted:
 - Draft QAPP is under EPA review.
 - Buildings demolished through Phase 8 are proposed for investigation at this time.
 - Fieldwork expected to begin second quarter 2022. More information will be provided upon USEPA approval of the QAPP.

OU-4 Annual O&M/LUCs

Jeff presented an update on the O&M work. PARS, under a subcontract with EnSafe, performed the following activities:

- Discharged water from Line 800 Lagoon pool after checking for pH and turbidity.
- Graded the roads at the Inert Disposal Area.

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- Sampled Line 800 Lagoon and Line 1 Impoundment for discharge.

Vaughn asked if we have ever done any more exploring on the SW side of the plant out in the crop fields area. He said that sludge from sewage treatment plant was being used on the farm fields out there. Jen said she would talk with Joe Haffner.

There were no further questions.

FUSRAP Update

Mike Kessler provided an update on FUSRAP activities. He wished everyone a happy new year and then once again showed the slide with the definition of FUSRAP: Formerly Utilized Sites Remedial Action Program to deal with former atomic energy commission radioactive waste. Assigned to DOE and then transferred to USACE.

Two OUs assigned: OU1 primarily explosives contaminated soils in Line 1 and West Burn Pads (WBP), while OU8 is for predominantly looking for low level radiation. Mike presented a slide on CERCLA process that shows how FUSRAP interacts with CERCLA and showed where we are at in the process at IAAAP. FUSRAP is in the final 12-18 months of Remedial Action. After the appropriate paperwork documenting that the project is completed, FUSRAP begins a 2-year monitoring phase. HQUSACE is providing sufficient funding to complete all OU-8 and OU-1 work.

Mike began with a discussion about strategy and that his work is dependent on Congressional funding. OU-1 is primarily Explosives Contaminated soils in Line 1 and West Burn Pad areas. The West Burn Pad South (WBPS) of the road Remedial Action Completion Report (RACR) is complete.

FUSRAP has conducted a significant amount of sampling at IAAAP. Additional remediation is required at Line 1:

- Review of REV A of the 2nd Line 1 PDIR (Bldgs. 1-03, 1-04, and the Clarifiers) resulted in the need to collect additional samples at the Clarifiers. This should take place later this month. Mike said that FUSRAP needed to confirm the results of the first round of samples.
- Line 1 Remediation: The remediation contractor submitted their "Pre-Construction" plans to FUSRAP for review and approval.

OU-8 is the DU sites.

Firing Sites Area (has been the focus of Mike's team):

- No radiological remediation was required at Warehouse 3-01, or Yards C, G, & L to be protective of the site worker.
- Line 1 Structures remediation complete.
- Remedial Action is complete in the FS-1/2, 3/4/5, and 14 Areas.
- Final Status Survey (FSS) is over 50% complete in the FS-6 Area. Still clearing

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brush and continuing PDI.

- FSS is now complete in 93.2% of the 125 FS-12 Survey Units (SUs).

Mike shared a series of restoration photos and with maps showing progress updates (some were same photos at previous meetings). Mike is expecting a significant hand remediating phase at FS-6 to meet the ROD, which will be time consuming.

Kellie Crist asked about previous slide where they didn't have time to backfill and hydroseed due to weather, will that occur in spring? Mike replied that extra erosion control measures were put in place for winter rain. They will backfill those with 3 other SUs and hydroseed all five at once when it is cost effective to do so.

Mike then discussed the Q4 2021 Activities completed.

OU-1:

- Provided additional guidance for 2nd Line 1 Bldgs. Pre-Design Investigation Report (PDIR) and approved the Clarifier Sampling Plan.
- Received and reviewed several Pre-Construction documents.

OU-8:

- Completed excavating and processing soil within Area E (former Test Fire Pit, the Area E "Apron", and SU-6(SW)).
- Completed FSSE work in Area E* and SU-6(SW).
- Completed backfilling and re-grading in SUs 4 and 6(SW) and Area E.
- Completed installation of the gravel pad in SU-45.
- Completed MERs for SUs 4, 6, and Area E* plus RUSPs 232 thru 254.
- Completed fall sediment and water sampling for the 2021 EMDAR.
- Completed the final Transportation & Disposal (T&D) campaign for the 2021 Field Season (6 railcars with 485 CYs >RG material).
- Completed demobilization activities.

Mike provided a status update on progress toward 2022 goals:

- Process 14,000 CY of material at FS-12. Status: 4,783 CYs 10/1 thru 11/5
- Stockpile 1,000 CY for shipping. Status: 272.5 CYs to date; none onsite.
- Ship 1,900 CY of material. Status: 977 CYs to date.
- Complete restoration of all FSA SUs.
- Complete REV A; final OU-8 PRAR/FSSE of 41 SUs at FS-12.

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- Complete REV A; OU-8 PRAR/FSSE for all FS Areas except FS-12.
- Complete Risk Assessments for Yards C, G, L, and the WBPS.
- Complete two OU-1 PDIRs for supporting remediation at Line 1.
- Complete the OU-1 Line 1 remediation RD/RAWP.
- Provide one article to the IAAAP Restoration News.
- Award a new FUSRAP / HTRW Services Contract.

Mike then showed a slide with his Q2 2022 Activities Planned.

OU-1:

- Conclude review and approval of the Pre-Construction documents.
- Complete pre-design surveys and sampling within Line 1.
- Begin drafting the OU-1 Line 1 RD/RAWP.
- Complete sampling at the Clarifiers. Receive and review REV A1 of the “2nd Line 1 PDIR”.
- Begin IAAAP Project Delivery Team review of the “3rd Line 1 “Continuing Sources” Summary Document.

OU-8:

- Continue brush clearing and Pre-Design Investigation work at the South Test Fire Site (FS-6).
- Complete PDT and EMCX review of REV A of the Yard L Risk Assessment. Start PDT and EMCX review of Yard C version of the document.
- Continue developing the OU-8 ESD document.

Vaughn had a question about FS-6. Mike had said they didn't do any hydroshots and Vaughn corrected him. Mike clarified that he has no documentation about hydrashots at FS-6. Vaughn asked if anyone had been checking on artillery shots? Mike said they are finding DU at FS-6, they just don't have the documentation about how much was used like they do at FS-12. The thing that is a surprise is not that they are finding DU at FS-6, but how much they are finding. Mike said FUSRAP work was based on PA.

There were no further questions.

Old Business – Action Items from Previous Meeting

There were actions from last meeting:

- There was a question about PFAS at the old chemical lab. Jen looked back at the Preliminary Assessment, and it was not listed. She talked with Butch on the

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Army side who said if there wasn't a need for using AFFF then they wouldn't. He didn't know of any fires there historically.

- OU-3 plume depth maps. Renie showed them on the screen and Darlene discussed the figures. One was a map showing the cross-section lines (Fig 1-4). A-A', B-B' and C-C', and the cross-section figures for each of those followed. These figures were prepared by geologists to show what the subsurface looks like based on the boring logs for the wells that were installed. They also show where the well screen is placed and where the samples are collected from. That is where the concentrations of RDX that are being monitored, right above the glacial till. 65-70 feet below ground surface is typical depth. Julie and Bruce both thanked Darlene for presenting these figures. Bruce asked what the target cleanup goal is. Darlene answered that 2 ug/L is the health advisory level (HAL). She said she would include cross-section figures in future presentations.
- PFAS drinking water sampling results. Jen contacted the person that has the data, but it is still in review. Jen will keep this as an action item for next meeting and report at next meeting.

Action Items For Today

Kellie Christ asked about the water sampling. How often are they sampling? Jen said the drinking water sampling is currently every two years and that the Army did sample last November. Amanda Smith, AO said that samples were collected in November by AO. Current regulations call for testing every three years but the regulations are being updated. PFAS is a continuously changing issue. Army has recently started testing annually in 2020. That will be added as Action Item.

Mark asked about fenced in areas and if there were any updates? Jen has been in touch with contractor that is going to be cleaning up those areas. They will be presenting in April at the next RAB meeting so that will be another action item.

Next meeting was going to be 19 April 2022, but Jen hadn't realized that was the week after Easter. She proposed moving the meeting up by one week to 12 April 2022. That proposal was fine with the RAB. As of now it is planned to be in-person at West Burlington City Hall depending on the COVID-19 situation.

Meeting adjourned at 10:19 am

Original signed by:



Maggie O'Hulligan
Secretary

Original signed by:

Vacant
Community Co-Chair

Original signed by:



Jen Busard
Army Co-Chair

Iowa Army Ammunition Plant
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- Exhibits: 1 Attendees
2 Agenda
3 Environmental Services Update
4 FUSRAP Update

Exhibit 1

**GOVERNMENT MEMBERS
PRESENT (5)**

Jen Busard
Dan Cook
Angela Sena
Bill Gresham
Shelly Nellesen

RAB MEMBERS PRESENT (5)

Hans Trousil
Julie Solinski
Mark Hagerla
Bruce Workman
Vaughn Moore

PUBLIC PRESENT (20)

Jeff Morrison
Mike Kessler
Maggie O'Hulligan
Aaron Steele
Maggie Stephens
Kirk Bargerhuff
Amanda Smith
Dean Johnson
Matthew Bange
Kellie Crist
Tony Finch
Joe Haffner
Matthew Brennan
Seth Reedy
Rachel Williams
Renie Aitken
Darlene Abbott
Patricia Murrow
Greg Miller
Jonathan Harrington

Total in attendance: 30