

RESTORATION ADVISORY BOARD MINUTES

October 19, 2021

The Restoration Advisory Board (RAB) meeting was called to order by Jen Busard at 9:01 a.m. on 19 October 2021. Due to the pandemic, this meeting was held virtually over MS Teams.

Minutes Review

Hans Trousil had one correction to the minutes from July 2021. He noticed that Vaughn Moore had made some comments during the meeting but wasn't listed on the attendance sheet. Jen said she would fix that in the minutes. There were also no public comments.

Agenda Review

The October 2021 agenda was accepted as written.

Environmental Services Update

Jeff Morrison of CH2M HILL, now Jacobs, presented an update on the new Environmental Services contract. He started off his presentation today by letting the RAB know that his team was recently awarded a new 5-year contract from USACE to finish the work on the projects started on the old contract, as well as a separate contract for implementing the Remedial Action at Operable Unit (OU) - 3.

Jeff summarized the OUs at IAAAP since that term gets used a lot in these 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) RI reports stand for the Jacobs/Leidos team:

- Submitted Final RI for OU-11 in August.
- Submitted Final RI for OU-12 in August.
- Received additional EPA comments on Draft Final RI for OU-4 in late August.
- Received backcheck comments on RTCs to Army comments on Internal draft RI for OU-7.
- Awaiting Army comments on Internal draft RI for OU-6 and Internal draft RI report for OU-10.

Jeff then updated the team on upcoming activities to be performed which include:

- Project Planning Activities Underway
 - Project Management Plan (PMP) and Contractor Quality Control Plan (CQCP)
 - Accident Prevention Plan (APP)/Site Specific Health and Safety Plan (SSHP)
- Fieldwork Planning underway for annual groundwater sampling at Trench 5 (OU-4) for RCRA

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- Begin Technical Planning Process (TPP) and QAPP amendment for Supplemental RI work at OU11 and OU12.
- Soil Background Evaluation is one of highest priorities

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

- There are currently three PFAS with EPA toxicity values that can be used to generate screening levels: PFOA, PFOS, and PFBS.
- Screening levels are risk-based values used to determine if additional investigation is warranted.
- PFBS screening levels was changed in Sept 2021.

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

- Draft SI report being prepared for legal and HQDA reviews.
- Due to screening level exceedances, additional investigations will occur in the future.
- A fourth site (new Fire Station) has been added to SI based on revised Final Preliminary Assessment report.
- Will begin scoping for additional SI fieldwork soon.

The Draft SI report being prepared for legal and HQDA reviews. Due to screening level exceedances, additional investigations will occur in the future. Jen said IAAAP replaced the Aqueous Film Forming Foam (AAAF) with new products that don't contain PFAS.

Julie asked if there has there been any discussions to adding the old Chem lab site for these chemicals. Jen said she would make a note of it and will check into it.

Mark asked about fire training workers exposures back in 1971.

Jeff replied that the current work, the SI, is merely a presence absence evaluation and if they're above a screening level, then health risk assessment would be conducted in the RI phase. Danny clarified about risk assessment. Superfund doesn't look at worker exposure in the past, but rather at current risk and future risk to workers.

Julie asked about drinking water containing PFAS. Danny said it isn't currently regulated under Clean Water Act, but he does know the City of Burlington did conduct some sampling in 2013 or 2015.

Jen said she received an email today that the Army will be testing the water coming into the plant from Burlington.

OU-3 Optimized Remedial Action

Jeff then 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 (RD) for OU-3 in spring 2021.

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- 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, APP/SSHP) and master project schedule for RA and performance monitoring.

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

- Draft Quality Assurance Project Plan (QAPP) is under Army 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.

Lastly, Jeff presented an update on the O&M work.:

- PARS completed Line 1 Impoundment Sediment Removal in late July. Final survey to get a new topo layer conducted in August and finalized report.
- New O&M contract awarded to EnSafe. O&M shall continue with no lapse in service and no significant changes are anticipated.

There were no further questions.

FUSRAP Update

Mike Kessler provided an update on FUSRAP activities. He summarized a September 2021 site visit by DOE management to discuss long-term management.

He then 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. Still in remedial action phase of process. RA will be completed this calendar year, while construction activities will be ongoing until 2022 for site restoration and paperwork.

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.

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

- REV 0 of the 1st Line 1 PDIR (Bldgs. 1-70, 1-05-1, and 1-155-1) was completed 19-JULY.
- FUSRAP internal review of the 2nd Line 1 PDIR (Bldgs. 1-03, 1-04, and the Clarifiers) was completed and Response to Comments were received 2-SEP. Backchecks resulted in the need to collect additional samples at the Clarifiers.
- Line 1 Remediation: The contract proposal was received 14-JULY. After scope discussions, FUSRAP requested a revised proposal on 28-JULY which was received on 2-AUGUST. Negotiations were held 18-AUGUST. MVS Contracting Branch awarded the contract mod on 28-SEPTEMBER. The mod is fully funded using FY21 money.

OU-8 is the DU sites.

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

- Remedial Action is complete in FS-1/2, 3/4/5, and 14 Areas.
- Final Status Survey (FSS) is nearly 35% complete in the FS-6 Area. Still clearing brush and continuing PDI.
- FSS is now complete in 92% 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 as previous meetings). Included in this was a photo of the Test Fire Pit remediation. REV B of the Test Fire Pit RD/RAWP was sent to EPA and IA DPH for review on 22-JUL. Two comments were received from IA and one comment was received from EPA. FUSRAP prepared RTCs and backchecks were closed 30-AUG.

There was one question for Mike on Test Fire pit Remediation by Joe Hafner. Joe informed Mike that his team didn't need to backfill that pit. He would love to have a pond there and Mike said they could talk offline on that. He'll have Dave follow up with him.

REV 0 of the document is dated 1-SEP-2021. A Preparatory Meeting was held 8-SEP and excavations in accordance with the plan started on 14-SEP. Excavation work was 95% complete on 30-SEP when this photo was taken.

Q4 2021 Activities completed:

OU-1:

- Finalized REV 0 of 1st Line 1 Bldgs. Pre-Design Investigation Report (PDIR).
- Completed FUSRAP internal review, RTCs, and backchecks to REV A of 2nd Line 1 Bldgs. PDIR.

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- Awarded the Line 1 Remedial Action contract mod.

OU-8:

- Completed two Transportation & Disposal (T&D) campaigns (2+6 railcars respectively) with 648.7 CYs >RG material from the 2021 Field Season.
- Completed excavating and processing soil in Area K (part 1) and SU-4.
- Completed PDI work in SU-6NE and FSSE work in SU-4.
- Completed MERs for SUs 46, 49, 44, and 38W plus RUSPs 205 thru 231.
- Completed restoration of Area K (part 1)
- Completed the Area E (former Test Fire Pit) RD/RAWP; started excavation.
- Completed REV 0 of the 2021 PRAR/FSSE (20 SUs).
- Completed REV 0 of the 2020 EMDAR.

Mike provided a status update on progress toward 2021 goals:

- Ship 3,400 CY of >RG material
- Process 20,000 CY of material
- Stockpile 2,000 CY for future shipping
- 'Release' 20 Survey Units

Constraints:

- Limited Field Season; Weather
- Test Firing
- Remediation of the Former Test Fire Pit

Mike then showed a slide with his 2022 goals:

- 14,000 CY of material at FS-12.
- Stockpile 1,000 CY for shipping.
- Ship 1,900 CY of material.
- Complete restoration of all FSA SUs.
- Complete REV A; final OU-8 PRAR/FSSE of 41 SUs at FS-12.
- 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

Q1 2022 Activities Planned

OU-1:

- Conduct the OU-1 Line 1 Task Order Pre-Construction meeting. Receive and review the applicable schedule. Begin drafting the OU-1 Line 1 RD/RAWP.

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- Complete sampling at the Clarifiers and clear backchecks to REV A of the “2nd Line 1 PDIR”. Prepare REV B to send to EPA and IA DNR for review.
- Begin IAAAP Project Delivery Team review of the “3rd Line 1 PDIR (“Continuing Sources” Buildings.)

OU-8:

- Complete FSSE work within the former Test Fire Pit.
- Complete backfilling and grading of the former Test Fire Pit.
- Complete installation of the gravel pad in SU-45.
- Dispose of all Above RG material stockpiled from the 2021 Field Season.
- Complete demobilization from the FS-12 site following completion of the 2021 Field Season.
- Continue brush clearing and Pre-Design Investigation work at the South Test Fire Site (FS-6).
- Complete FALL sampling for the 2021 EMDAR.
- Begin review of REV A of the Yard L Risk Assessment.
- Continue developing the ‘2022’ FS-12 SUs PRAR/FSSE.
- Continue developing the OU-8 ESD document.
- Continue developing REV A of the Exit Strategy MOU REV A.

There were no further questions.

OU-3 update

Darlene Abbott of Aerostar presented an update of OU-3 with the latest annual groundwater and surface water data and evaluation of off-post results. She reminded the group that the off-post contaminants that are present are explosives: mainly RDX (royal demolition explosive). The contamination came from:

- Actively loading, assembling and packing medium- and large-caliber ammunition items (explosives) for the Department of Defense using modern production methods in support of worldwide operations.
- Contaminants from these activities have made their way into soil, surface water, and groundwater over the years of operation at the IAAAP.

Brush Creek Surface Water Sampling

- Sampled monthly
- 3 sampling locations: BCOFF-1, BCOFF-6, and BCOFF-3
- Analyzed for explosives

OU-3 Groundwater Sampling

- Sampled annually, usually in October/November
- Analyzed for explosives
- GW sampling will continue until RDX concentrations are below the health advisory level (HAL)

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OU-3 Reporting

- Analytical results from surface water and groundwater monitoring activities are summarized and presented in the OU-3 Off-Site Annual Monitoring Report and Sampling & Analysis Plan.
- RDX surface water concentrations typically decrease with distance downstream from the facility boundary but are regularly above the health advisory level of 2 µg/L.

Darlene showed latest surface water results and said this presentation covers the OU-3 annual surface water results from the last report through December 2020.

The summary of results presented in the Off-Site Annual Groundwater Monitoring Report and Sampling & Analysis Plan FY2020 and the conclusions for OU-3 Surface Water are:

- For spring months, all surface water monitoring locations (BCOFF-1, BCOFF-3, and BCOFF-6) exhibited decreasing concentration trends at confidence levels of 99.9% for all locations.
- Fall months RDX concentration exhibited no reliable trends in SW for BCOFF-1 and BCOFF-3. BCOFF-6 RDX concentrations exhibited decreasing concentration trends for the fall months at a confidence level of 99.3%

The path forward for OU-3 surface water is to continue surface water sampling at the three Brush Creek locations (BCOFF-1, BCOFF-3, and BCOFF-6) until the RDX surface water concentrations are below the HAL of 2 µg/L or until other RDX criteria are established and met.

OU-3 annual groundwater sampling event:

- Conducted in November 2020
- Results are documented in the OU-3 Off-Site Annual Groundwater Monitoring Report and Sampling & Analysis Plan FY2021 OU-3 Groundwater Conclusions
- Despite the lower RDX concentration in MW-309, the concentration trend for MW-309 is still increasing with 99.2% confidence. Increasing RDX concentration trends have also been observed in EMW02 and EMW-04.
- >50 µg/L RDX concentration plume core has decreased since last fiscal year

Groundwater results:

- >2 µg/L RDX plume is approximately the same footprint/surface area as last fiscal year.
- RDX isoconcentration plume between 20 and 50 µg/L has increased in relative surface area since last fiscal year.
- >50 µg/L RDX isoconcentration plume core has decreased since last fiscal year.

Darlene then presented the Path Forward for OU-3:

- Groundwater and surface water will continue to be monitored until the

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concentrations are below the HAL or until other RDX criteria are established and met.

Darlene presented a map showing the original plume configuration from 2007 with dashed lines and superimposed the current plume based on November 2020 data. It clearly depicts a smaller plume since baseline sampling. Mark asked if they knew what the source of the plume was and if the plume still goes under the Skunk River? Steve Bellrichard reminded the team that the past practices at IAAAP were the source of this RDX contamination.

Hans was looking at the two maps and it seems the two hotspots are different. Darlene is showing the latest data from 2020. Steve pointed out slide 9 shows the original plume in dashed line, the current plume, the hotspot under the new highway that Jeff's team is focused on, and the small blip that still goes under the Skunk River.

Bruce asked about the depth of the wells and is there a cross section that shows vertical details. Darlene pointed him to the annual report for that information. Bruce asked how deep is the plume? Darlene answered it is about 65 feet below ground surface as an estimate.

There were no further questions.

Old Business – Action Items from Previous Last Meeting

There were three actions from last meeting:

- There had been a request that we continue to update on OU-3 sampling, which was provided by Darlene today.
- Hans requested an updated acronym list, which was sent out via email.
- FUSRAP - Mike was asked to provide amount of material removed from FS12 and he will get that to Jen.

Action Items for Today

Steve was tracking PFAS in old chem lab. Jen will check PA and add that as Action Item for next meeting.

Bruce asked about PFAS testing from Burlington. AO will be collecting sample and Jen said kickoff mtg is next week and AO will do the sampling next week as well. Danny found the water data for Burlington in 2013. No detections back then and 2015.

Julie would like to see a figure provided about depth of contamination at OU-3 that Bruce asked about. That will be added as Action Item.

In other new business, Steve asked Danny about his promotion. Danny indicated that he will be a manager in emergency response group. His new RPM has not been selected yet so there will be a transition. Steve, Mark and Jen all shared thanks with Danny for his work on the team in the past few years moving the IRP program forward and restoring the public faith in government agencies too.

Next meeting will be 11 January 2022 at 9 am. As of now it is planned to be in-person at West Burlington City Hall depending on the covid situation.

Meeting adjourned at 10:25 am

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Original signed by:



Maggie O'Hulligan
Secretary

Original signed by:

Vacant
Community Co-Chair

Original signed by:



Jen Busard
Army Co-Chair

- Exhibits: 1 Attendees
 2 Agenda
 3 Environmental Services Update
 4 FUSRAP Update
 5 CERCLA Process

Exhibit 1

GOVERNMENT MEMBERS

PRESENT (4)

LTC Jason Christ
Jen Busard
Daniel O'Connor
Dan Cook

RAB MEMBERS PRESENT (5)

Hans Trousil
Julie Solinski
Mark Hagerla
Robert Haines
Bruce Workman

PUBLIC PRESENT (27)

Jeff Morrison
Mike Kessler
Sarah Brockway
Aaron Steele
Maggie Stephens
Kirk Bargerhuff
Amanda Smith
Dean Johnson
Matthew Bange
Kellie Crist
Susan Elrod
Cathy Kropp

Steve Bellrichard
Heather Knotek Smith
Tony Finch
Joe Haffner
Matthew Allen
Sabrina Roberts
Jessica Louthan
Brooke Ann Thye
Rachel Williams
Aitken, Renie
Darlene Abbott
Yarberry, Kim-Lee
Ryan Drew
Venky Venkatesh
Dan McNeil

Total in attendance: 36