

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

The Restoration Advisory Board (RAB) meeting was called to order by Jen Busard at 9:02 a.m. on 12 January 2021. Due to the pandemic, this meeting was held virtually over MS Teams. Jen said that Elyn has family medical issues and will be temporarily away from the RAB. Co-chair position is currently vacant, and Jen is asking for any of the other board members to take over until she returns and to let her know.

Minutes Review

There were no corrections to the minutes from October 2020. There were also no public comments.

Agenda Review

The January 2021 agenda was accepted as written.

Building Demolition Status

Randy Doyle provided an update on Building Demolition program. He indicated that they are winding down with most of the funded work completed. All phases of the program are funded. Phases 1-5 and 8 are complete, and Phases 6, 7 and 9 are ongoing. Updated Status since slide was prepared: 408 structures demolished; ~753k sqft.

Randy provided a project update in regards to recycling:

- Over 122,000 Ton of Concrete crushed for re-use (almost all)
- Over 2,500 Ton of metal recycled
- Realizing a 85% diversion rate of solid waste (concrete, recyclable items)

With regards to environmental stewardship:

- 2,900 Ton of Asbestos abated (nearing completion)
- 40 Ton PCB Contaminated debris abated. Much of it was PCB paint.
- Proper disposal of other regulated material (lead, ballasts, Hazardous Material)

Randy shared a series of photos, most of which were previously seen:

- Line 800 is complete. Completely overgrown with vegetation
- Line 6 is complete. Completely overgrown with vegetation
- Line 5 is complete. Green pasture. A groundbreaking on solid waste center within 30 days. New logistics center will be in this centralized area.
- Line 8 is complete and overgrown with vegetation. All saddles were removed from the woods.
- Line 1 is 98% complete. Almost done. Only Building 1-04 remains for asbestos abatement and then it will come down.
- Line 3 is complete. Left a couple of buildings on south side of the line that have potential reuse.

They are currently taking some old bridges out and streambed mitigation measures were implemented. One building is 1-03 and they left the foundation in place waiting for

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

Mike Kessler's team (FUSRAP).

Aaron Steele said there is a 2-year contract for work planning and sampling project as part of the Building Demo for Installation Restoration Program (IRP) sites. It is currently in the work planning stage. Jen asked the Louisville District for help, TTL is the firm contracted for this work, and Tony Finch is leading it. This is to supplement the FUSRAP sampling work that Mike Kessler will discuss later.

Bridge H-18 Replacement

Jen Busard presented an update on the Vented Ford Low Water Stream Crossing (LWSC) Replacement for Bridge H-18, the only access to the Incendiary Disposal Area (InDA).

Mark Hagerla asked if there are pipes at the level of the bottom of the creek. Jen said no they are on top of the flow and when the creek level rises it will flow over the top. Julie Solinski asked about what are on the sides where there are concrete indentations.

Randy said they are an ASHTO standard for highway ripples on roads to warn drivers that they are too close to the shoulder.

H-18 was a 65' long, single span pony truss bridge that was erected in 1910. It is located on Plant Road K and crosses Spring Creek in the southeast corner of IAAAP. A vented ford is a LWSC that has pipes under the crossing that accommodate low flows without overtopping the road, although high water will periodically flow over the crossing.

Spring Creek has a State Threatened Species, the Orange Throated Darter and the crossing will accommodate the up and down movement of this fish. It is a completely different style of bridge.

Jen presented a series of before and after photos showing the state of the structurally unsound original bridge, the old bridge foundation, and the new construction as it progressed. Construction began October 2020 and was completed December 2, 2020.

There were no further questions.

Environmental Services Update

Jeff Morrison of CH2M HILL, now Jacobs, presented an update on the Environmental Services Contract. Under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) program the objective of the Remedial Investigation (RI) is to determine the nature and extent of contamination, to update the conceptual site model, and evaluate risk. Jeff M. gave a broad overview of the various work being conducted at different parts of the facility, by different contractors, and under the supervision of different USACE districts to provide context for why things seemed to be disconnected. He updated the team on where the various RI reports stand for the Jacobs/Leidos team:

Remedial Investigation Activities Update:

- Finalized RI report for Operable Unit (OU) 9.

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

- Addressing Army comments on the Internal Draft RI for OU-11 and OU-4.
- Awaiting comments on Internal Draft RI for OU-12.
- Will incorporate changes into risk assessments for all sites at IAAAP.
- Responding to EPA comments on interim Human Health Deliverable and finishing Internal Draft RI report for OU-7 and will be submitting to Army early next month.
- Continuing to work on Internal Draft RI reports for OU-6 and OU-10.
- OU-3 Optimized Remedial Design is underway. Addressing Army comments on Internal Draft Optimized Remedial Design (RD) for OU-3. Will submit Draft to EPA later in January.
- RD includes additional bioremediation injections within the 50 ug/L RDX “hot spot” area (approximately 20 new injection locations).
- Jeff Gamlin presented the updated Conceptual Site Model (CSM) showing the current understanding of off-post geology considerations that is provided on the next two slides.

Jeff G. provided some context for the 3D bowl structure. Royal Demolition Explosive (RDX) is denser than water and wants to sink.

Mark asked whether the hotspot has diminished on the Lee County side of the Skunk River? Jeff G. said that the plume is decreasing as it heads down toward Skunk River.

Julie commented that this 3D graphic is very helpful and more meaningful than a list of numbers. A picture is worth a thousand words.

Jeff M. then updated the team about a Site Inspection (SI) that is underway for emerging contaminants called per- and polyfluoroalkyl substances (PFAS) at IAAAP:

- Field work conducted at the former Fire Department, Fire Training Pit, and Trench 6 at the Inert Disposal Area (IDA) in December 2020.
- Five newly installed monitoring wells and 10 existing monitoring wells were sampled.
- Awaiting laboratory results and will begin data evaluation and reporting in early 2021.

Bioreactor Treatability Study

Jeff M. then provided a Bioreactor Treatability Study Update.

Collaborating with Engineering Research & Development Center (ERDC) to evaluate RDX treatment in the South Tributary to Brush Creek

- Phase 2 (full-scale) tank testing was completed in late December and the results have been positive.

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

- Team will begin data evaluation and reporting in the upcoming months.
- Should have treatability study conclusions and recommendations to share at the next RAB meeting.

Jeff M. showed a series of photos showing the late autumn conditions in November and early December. Shared some lessons learned regarding screen on the intake and lack of heavy precipitation.

Jeff M. presented a data table with some promising data that showed influent concentrations as high as 464 parts per billion (ppb) being treated down to as low as < 0.2 ppb. The data also confirmed that Line 1 is a source for RDX to Brush Creek as Steve Bellrichard had brought up earlier. What is puzzling to the Jacobs team is the fluctuation of influent levels of RDX which may be related to either the demo activities there or to the production facility itself (if sump pumps are intermittently used). There appears to be a spike in the influent in October 2020 that is unexplained.

There were no further questions.

FUSRAP Update

Mike Kessler provided an update on FUSRAP activities. He started off with a new slide showing FUSRAP areas of responsibility in OU-1 and OU-8. by reminding the group what the acronym FUSRAP stands for: Formerly Utilized Sites Remedial Action Program to deal with former atomic energy commission radioactive waste. Assigned to the Department of Energy (DOE) and then transferred to USACE. Two OUs assigned: OU-1 primarily explosives contaminated soils in Line 1 and West Burn Pads (WBP), while OU-8 is for predominantly looking for low level radiation. Mike presented a slide that shows how FUSRAP interacts with CERCLA and showed where we are at in the process at IAAAP; we are still in the remedial action phase of process.

During Mike's presentation, Mark questioned the map of circles. What is the boundary around different yards? Mike explained that the yellow circles are the FUSRAP areas of responsibility.

Mark was actually asking about the InDA fenced in area that was part of Military Munitions Response Program (MMRP) sites. Steve Bellrichard clarified that land use controls (LUCs) are necessary where sites are not cleaned up to unrestricted use and that Five-Year Reviews (FYR) are needed to evaluate that the remedy is still protective of human health and environment. Mark is still not happy that the government is not restoring the sites and he once again mentioned that the goal is environmental restoration.

Jen added that the four areas that are fenced in with LUCs: two of the four sites will be needed for future modernization and will be cleaned up.

Mike continued that 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.

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

Additional remediation is required at Line 1:

- Collected sub-surface samples at Bldgs. 1-70, 1-05-1, and 1-155-1.
- Post-Design Investigation Report (PDIR) under PDT review.
- Collected additional samples from Bldg. 1-03 and 1-10/12 Clarifiers.
- PDIR anticipated 27-APR-2021.
- Line 1 RA Scope of Work (SOW) is still in progress; hope to award contract mod in Q3.
- Planning to start development of Remedial Action Work Plan (RAWP) in Q4; remediate in 2022.

OU-8, Firing Sites 12 Area:

- No radiological remediation required at Warehouse 3-01, or Yards C, G, & L to be protective of the site worker
- Line 1 Structures remediation complete.

Firing Sites (FS) Area:

- Remedial Action is complete in FS-1/2, 3/4/5, and 14 Areas.
- Final Status Survey (FSS) is complete in 45% of the FS-6 Area.
- FSS is complete in 74% of the 125 FS-12 Survey Units (SUs).

Mike shared a number of restoration photos and his maps showing progress updates.

Q1 2021 activities completed:

- OU-1:
 - Reviewed PDI Addendum for Bldgs. 1-03 / 1-04.
 - Collected additional soil samples at Bldgs. 1-03 /1-04 and the Clarifiers
- OU-8:
 - Area E (Test Fire Pit) Pre-Design Investigation.
 - Excavation and processing of soils in Area J SUs + Gamma Walkover Survey Verification and Systematic Soil Sampling.
 - Restoration of Area I and northern ½ of Area J.
 - S3 & site equipment decon/demob for winter.
 - Collected FALL 2020 EMDAR samples.
 - Finalized 2020 (“West-Central” SUs) PRAR/FSSE.
 - Completed 1st Transportation & Disposal (T&D) campaign

RESTORATION ADVISORY BOARD MINUTES

January 12, 2021

Q2 2021 activities planned:

- OU-1:
 - Review PDIR for Buildings 1-70 / 1-05-1 / 1-155-1.
 - Develop PDIR for Bldgs. 1-03 / 1-04 & Clarifiers.
 - Continue development of SOW for Line 1 remediation contract mod.
- OU-8:
 - Complete 2nd and 3rd T&D campaigns.
 - Complete 2021 tree clearing campaign.
 - Review Area E PDIR; Develop RD/RAWP.
 - Develop OU-8 2021 Post Remedial Action Report/Final Status Survey Evaluation (PRAR/FSSE) (25 SUs).
 - Develop OU-8 PRAR/FSSE for Firing Site areas not at FS-12.
 - Develop 2020 Environmental Monitoring Data and Analysis Report (EMDAR).
 - Develop Exit Strategy Memorandum of Understanding (MOU).

Mike provided a status update on progress toward 2020 goals, constraints they faced, and then presented a slide with 2021 goals:

- Ship 3,400 Cubic Yards (CY) of >RG material
- Process 20,000 CY of material
- Stockpile 2,000 CY for future shipping
- 'Release' 25 Survey Units
- 'Release' FS areas NOT at FS-12

There were no further questions.

Old Business – Action Items from Previous Last Meeting

No old business today. Jen said there were no action items from previous meeting.

Action Items for Today

- FYR status – Draft version of document is under EPA review now.

Next meeting will be April 20 at 9 a.m. It may be virtual, but they hope to hold it in person.

Meeting adjourned at 10:50 a.m.

Iowa Army Ammunition Plant
RESTORATION ADVISORY BOARD MINUTES
January 12, 2021

Original signed by:



Sarah Brockway
Secretary

Original signed by:



Jen Busard
Army Co-Chair

- Exhibits: 1 Attendees
 2 Agenda
 3 Facility Demolition Program
 4 Bridge H-18 Replacement
 5 Jacobs Environmental Services Update
 6 FUSRAP Update

Exhibit 1

GOVERNMENT MEMBERS

PRESENT (4)

LTC Eric J. Schilling
Dan Cook
Jen Busard
Bill Gresham

RAB MEMBERS PRESENT (3)

Hans Trousil
Julie Solinski
Mark Hagerla

PUBLIC PRESENT (19)

Steve Bellrichard
Jeff Morrison
Mike Kessler
Sarah Brockway
Aaron Steele
Renie Aitken
Kim-Lee Yarberrry
Jeff Gamlin
Randy Doyle
Andy Keim
Angela Leek
Tony Finch
Shelly Nelleson
Hunter Blair
Maggie Stephens
Matthew Bange
Amanda Smith
Chad Johnson
George Xanthos

Total in attendance: 26