

## **RESTORATION ADVISORY BOARD MINUTES**

### **JANUARY, 2018**

The Restoration Advisory Board (RAB) meeting was called to order by Jen Busard at 9:00 a.m. on January 9, 2018 at the West Burlington City Hall.

#### **Minutes Review**

The October 2017 meeting minutes were reviewed and accepted as written. Elyn Holton-Dean is not here today. Jen asked if there were any correction in the minutes, or any public comments. There were none.

#### **Agenda Review**

The January agenda was accepted as written.

#### **New Members**

Jen Busard indicated that the new colonel for the IAAAP, Lt. Colonel Stephen Koehler, was unable to attend today, but the Deputy to the Commander, Mr. Gifford Haddock, is present.

#### **Remedial Investigation Progress**

Jeff Morrison of Jacobs/CH2M HILL presented the Remedial Investigation Update. The Draft Final Quality Assurance Project Plan (QAPP) for the site-wide work and several sites was submitted to USEPA on 29 August 2017. A conditionally-approved final workplan was submitted to USEPA on 15 Dec 2017. It is a general document that includes information such as chemistry and risk assessment processes and quality control procedures that apply to all sites. Because the facility is so large and has so many sites, the QAPP was broken up into four separate packets at the request of EPA and to help with the review process. Draft Final packet #2 was submitted to USEPA in late December. There are two subsequent packets still in various stages of review, and the team is currently on track to begin field work this spring.

Vaughn Moore asked to go back to the first slide and explain the terminology used. What is an Operable Unit? Jeff explained that OU1 is the site soils within the fence line of the facility itself. Aaron added that the OUs are broken up by media and by location. OU2 no longer exists. OU3 is the offsite groundwater plume. OU4 is the IDA, a series of landfills. OU5 are the MMRP (Military Munitions Response Program). OU6 is the groundwater within the fence line on the base. Line 1 has soil that is in OU1 and the groundwater is in OU6 based on FFA in the 1990s. OU7 are the misc. sites that were found after the fact including things like a waste pit. OU8 is the FUSRAP activities. OU9 are the construction debris sites found during utility clearing.

Aaron Steele indicated that it is not uncommon to divide up large bases in this manner but it does make it complicated. Jeff also added that a restructuring may happen after the remedial investigation data is collected to streamline the process and help evaluate technologies to remediate the contamination. Aaron added that a restructuring is due since these were assigned 30 years ago and after the data is collected we will discuss.

Vaughn expressed some concerns regarding the pink water lagoon site and the high levels of RDX that were there historically. He also relayed stories about some of the health effects to employees exposed to cesium that were observed in the past and wanted to make sure that the team was aware of some of the testing activities that had happened at the facility. Zaynab Murray answered that while we can't speak to the health effects issues, she assured him that this team isn't denying what happened in the past. Going forward, the team is handling the environmental issues properly. She also added that the Corps of Engineers has remediated both Yard E and the pinkwater lagoon previously and that this team is now investigating new areas. Jen added that many sites at OU1 were remediated back in the 1990s and soil removal actions were implemented.

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Hans Trousil asked about the drainage in the treatment system? Hunter indicated that there is a sump and the drainage gets pumped back into a tank in the system.

### FUSRAP Update

Bruce Munholand provided the update on FUSRAP work on behalf of the St. Louis Corps district. Since last RAB, progress has continued at Firing Site 12 (FS-12), with 1,155 cubic yards shipped offsite (12 full rail cars).

Final Status Survey (FSS) at FS-12: Bruce reported that 70% verification surveys have been completed, with the other 30% requiring a second lift, 100% of the surface area has been remediated of Area G for DU. An added survey unit (SU 94) still needs to be remediated, and Area H is partially completed for DU remediation. Not enough railroad cars were ordered for total shipping, so some still stockpiled at FS-12. No activity being conducted during the winter.

Bruce presented a color-coded map, with the green areas showing where action completed, light blue showing 2018 FSS sites, and dark blue showing 2019 FSS sites. Grey area is where remediation has been completed, and pink area yet to be remediated. Still defining the southern and eastern boundary of Extended General Excavation Area (GEA).

Bruce also shared some photographs. Upper left photograph shows survey crew members picking out DU by a tree stump. Upper right survey and sampling in FS-12 bunker getting it ready for demo. Bruce showed a photograph of a loading of rail car with DU contaminated soil and assured the group that they take the utmost precaution.

At OU1 Line 1, they are assisting with Bldg. 1-70 demo activities. The filter bed just to the north of 1-70 needs to be removed, and it is known that the area between the bldg. and filter bed is contaminated, which will need to be excavated and remediated.

High groundwater is present in that area, and while FUSRAP is responsible for the dry soil, the saturated soil will be handled as part of the groundwater OU6. They will be performing the OU1 and OU8 5YR in 2018, which is scheduled for July. Interviews are part of the process with IAAAP representatives, agency representatives, and private citizens.

Vaughn asked about when FS-12 tunnel is removed, what will happen with the cement. Randy answered it will be recycled, screened and taken offsite for recycling after decon. Abatement crews come in again next week.

Vaughn also asked about FS-6 where the first shots were. Randy doesn't know about it if there are no buildings there.

- Next steps will be to complete remediation of OU8, FS-12, and follow on RA (remedial action) contract this spring.
- OU8, FS-12 FSS continue sampling, surveys and reports
- Perform Five Year Review (5YR) for OU1 and OU8
- OU1, Line 1: Sampling protocol for building 1-70
- Continue research for OU1 Response Action Completion Report (RACR) and OU8 FUSRAP

No other questions.

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### Building Demolition Status

Randy Doyle, Environmental Coordinator at IAAAP, presented the building demolition update. The demolition is part of the Army program to abolish obsolete infrastructure. Some of the buildings were built in the 1940s. Supported by Picatinny Arsenal Layaway of Industrial Facilities Program (LIF). Bhatte is sub-contracted to American Ordinance (AO) for the demolition activities however, the facility is using local resources where possible.

The work is being conducted in phases:

- Phase 1 - 84 structures totaling ~ 91k sq. ft. (complete)
- Phase 2 - 75 structures totaling ~ 89k sq. ft. (95% complete)
- Phase 3 - 23 structures totaling ~ 63k sq. ft. (25% complete)
- Phase 4 - 74 structures totaling ~ 114k sq. ft. (working)
- Phase 5 - 32 structures totaling ~ 163k sq. ft.
- Phase 6 - 75 structures totaling ~74k sq. ft.
- Phase 7 - 18 structures totaling ~250k sq. ft.

In general, the project is going well and they are up to 7 phases now. Crews returned to IAAAP yesterday and are proceeding mainly in Line 1 currently. Just awarded Phase 4 for another 74 buildings with explosives buildings like 1-70 and filter beds. Need to have EOD specialist on site for explosives.

Most of Phase 7 will be old foundations, signs, billboards and things of that nature since the last demo in the mid-1980s. Line 8, Line 1 foundations will include recycle of concrete. 623,000 sq. foot earmarked by end of project.

As previously reported, screening wasn't getting out the small chicken wire rebar. Now processing concrete through new screen and it is working well. Hoping with the weather and moisture it turns the fine powder back into concrete.

Randy reported that a good team abating the asbestos, mercury thermostats, switches, ballasts, etc. and it is being handled safely.

- Randy showed Line 800 before/after photos.
- Line 6 ran into a building that they don't know what it was used for. It had 3-foot concrete walls, too difficult for current excavator.
- Line 1 is where the most work is done right now. Complete back line out, the ramps, 1-40, fallout shelters, melt pours are all being cleaned out.
- Bldg. 104, the old chem lab is coming down. The IT switches for line 1 and roundhouse are in bldg. 104 so they can't take that out yet. Need to move the IT closet out.
- Old buildings taken out and more green pastures, and more room for expansion.
- Line 8 – there are just two buildings remaining.

Hans Trousil asked what happens to the railroad tracks. Randy said minimal tracks coming out right near buildings. There is a base plan for storage of rail cars and is a money generator. Hans asked if the soil is sampled under the tracks. Randy indicated he is working with AEC to handle this in a smart manner regarding sampling underneath buildings that are demo. Otherwise it will be handled as part of the OU1 soil.

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Vaughn asked about the order north to south. Randy deferred to the previous list he provided for accuracy. Vaughn also indicated that the "Lead A side magazine" had the great big (thick) walls that Randy was referring to earlier in his presentation.

One public attendee, Herb Price, asked about rail car storage. Randy answered that the cars are empty, but BNSF and others rent track space we aren't using.

Randy also provided an update on the Old Fly Ash Waste Pile. The pile predates Randy's time at IAAAP. The bank has been engineered and moved back to keep it out of the creek. Randy showed some before and after photos. Significant amount fly ash is there, from the days of burning coal. Cover is grass, rip rap is put in to stabilize, and they will plant trees as well to help with erosion control. In one photo the bottom one is what it used to look like (a mountain), and top one is now.

There are no more questions/comments.

### **Old Topics from Previous Meeting**

Herb Price asked about a Public tour. Jen asked if there is interest. Vaughn said there hasn't been one for a while. Jen indicated she will not be getting a big Trailways bus like last time since previously it was only the RAB members that attended.

Historical Small Arms Range (HSAR) update – the Omaha Corps of Engineers is looking in to the need of a Proposed Plan and public meeting. There is already a document reporting the remedial actions at this site.

Herb Price is here today to discuss cemeteries based on questions that arose at the previous meeting. He reported that Mormon cemetery is still there. GenWeb is the website that you can search by state and county (Iowa, Des Moines County). All cemeteries are listed there to see who is buried in each cemetery.

Mormon cemetery is thought to be done by Augusta community. Arthur A Miller was an old landowner when Army took it over and he may have been Latter Day Saints. Three of the head stones there came from a different cemetery according to the newspaper article in Hawkeye Gazette in 1943. Those are the only three that were not Mormon and probably just the stones were moved, not the bodies.

Removal of bodies within the ordnance plant, before 1941 bodies were moved by Kate Sparker's land. Two other bodies were moved from a location where a former Baptist church was located on private land. As plant was being built, the only other two with documentation are three graves that were moved at Lee Cemetery in 1979 by a funeral home. Two stones; mother and child that died same day (likely disease) were moved to Avery.

Swede (old swede, little swede) three graves were moved in 1979. Can't get to this site. It is within a fenced in area with munitions. Herb thinks all bodies at Lee were moved.

Johnson Cemetery. Minutes were wrong. Bella Cole owned and exemption to the deed that discussed human burials there. He doesn't think they moved any bodies from this site but there is no documentation.

One that puzzles him is on Zimmerman map. Southern border there is the Old Brush road, now cut off from college. Brush Creek location, inside the plant. Shows a cemetery on Zimmerman map and he has no idea what it is in the far corner, within plant boundary. Spring Creek, Shiloh, Johnson are all on the map but this other one is a mystery. Not part of the Edward James homestead. Joe Haffner would be the right person to take him there.

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Vaughn asked about Indian Chief burial location. Old-timer said he was buried out there but they didn't know his name. Vaughn took a group of Mormons to the site back in the day. They had a plat book with a group of names. Citizens of Augusta list of names would perhaps help since Latter Day Saints members were from there.

At Shiloh cemetery you can still buy lots. It is still active. Vaughn asked about Spring Creek whether it was still active, and Herb answered that it is full. Some unmarked graves there and it dates back to revolutionary war era. Four civil war vets are also buried there.

Avery and Shiloh sit right next to each other. Robert Avery donated land for church and burial ground. In 1916 they bought more land and expanded Shiloh. Shiloh is taken care of by themselves. Vaughn asked if that is the bell you hear. It is the old chapel at Shiloh church.

Historical society had told Hans that typhoid was present at the cemetery where a water main right of way needed to pass. Herb thinks Typhoid is a myth. Anthrax is the only disease that can be activated in a dead body according to the internet. Typhoid and cholera cannot contaminate a grave.

Jen asked if the minutes should be changed, but those are a document of what was discussed so in that sense they should not be changed (even if some facts are wrong).

### **Action Items for Today**

Jen will look into scheduling a public tour in the spring.

### **Public Comment**

Jen opened up the meeting for public comments.

One public attendee asked a question and relayed personal concerns. He wanted to know who oversees CH2M. Aaron answered that Corps of Engineers reviews all their work. AEC and IAAAP and then EPA all review their work as well. The public attendee lived in WA state near Hanford for about 10 years and he raised concerns about cleanup done out there. He recently was informed these meetings and has personal interest about the cleanup here (family and kids) and since he has lived here for most of his life.

He was also concerned about the pictures of the Old Fly Ash Pile that Randy presented and wanted to know if the fly ash was being tested. Randy did state that they analyzed fly ash piles and that coal contained different metals at different times. Different batches used different amount of metals. Randy said they are sampling for RCRA 8 metals to determine how to recycle.

Aaron clarified what the Brush creek stabilization project was to protect the creek. Interim measure to keep the ash from sloughing into the creek. The nature and extent sampling is part of the current Army Corps of Engineers contract with Jacobs. The nature and extent is being done currently and in work plan stages. Sandeep stated that fly ash pile has not gone through regulatory approval yet in CERCLA. There will be additional contracts for remediation after the four years of investigation are completed to find what is there.

Vaughn stated when it was known as Red Creek, plant took a dump truck of fly ash. They would pump water to change the color of the creek downstream from red to black and that this was standard procedure for many years.

Vaughn asked if Central Test Area (CTA) is coming down (Bldg. 685). Randy looked at his list, and thinks it may be down already.

Iowa Army Ammunition Plant  
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**Next Meeting/Agenda**

The next meeting is scheduled for April 17, 2018, 9:00 a.m. at the West Burlington City Hall.  
Topics for the next agenda: CH2M update, FUSRAP update, Demo update.

The meeting was adjourned at 10:37 a.m.

Original signed by:



Kaitlin Nau  
Secretary

Original signed by:



Elyn Holton-Dean  
Community Co-Chair

Original signed by:



Jen Busard  
Army Co-Chair

- Exhibits: 1 Attendees  
2 Agenda  
3 Remedial Investigation Update  
4 Building Demolition Status

Exhibit 1

**GOVERNMENT MEMBERS PRESENT (4)**

Jennifer Busard  
GC Haddock  
Dan Cook  
Sandeep Mehta

**RAB MEMBERS PRESENT (5)**

Vaughn Moore  
Robert Haines  
Dean R. Vickstrom  
Hans Trousil  
Bruce Workman

**PUBLIC PRESENT (17)**

Kaitlin Nau  
Dean Johnson  
Jeff Morrison  
Billie Jo Hatfield  
Zaynab Murray  
Constantine Tsentas  
Hunter Blair  
Linda Latta  
Penny Vacek  
Delbert Bunnell  
Randy Doyle  
Bruce Munholand  
Brooke Thye  
Aaron Steele  
Juan Afable  
Herbert Price  
Gary Deen

**Total in attendance: 26**