

**IOWA ARMY AMMUNITION PLANT
RESTORATION ADVISORY BOARD
MINUTES
August 26, 2008**

The Restoration Advisory Board meeting was called to order by Eric Orth at 5:05 p.m. on August 26, 2008 at the Winegard Board Room located in the Burlington/West Burlington Area Chamber of Commerce.

Minutes Review

The minutes were accepted as written.

Agenda Review

There was one change to the agenda. The FUSRAP Update will be provided by Mr. Rodger Allison from IAAAP vice Ron Frerker.

Public Comment

No comment at this time.

Project Update

Rick Arnseth briefed the RAB from a slide presentation. Please see exhibit 3 for his presentation.

Brush Creek Investigations

Vaughn Moore questioned why he doesn't hear any information on Spring Creek or Long Creek; Tetra Tech only mentions Brush Creek at these meetings. Rick Arnseth responded that there was never anything found in the other creeks that warranted any cleanup action. Vaughn further added that a pipe was run from Line 1 to the dam and everything came up belly up in the creek including turtles, frogs, and fish. Scott Marquess stated that the real issue is that we have a groundwater supply off post that is contaminated with RDX. Scott added that the Army thinks that Brush Creek running off post fed that plume, so we need to determine if there is any action to take in Brush Creek to remediate the groundwater problem off post. Scott further added that in the other creeks, detections were found at various levels, but the levels didn't pose a threat. Paula Graham questioned if there wasn't enough water flowing through the creeks. Scott responded that the water levels in Spring and Long Creeks were low and didn't feed a water supply or cause a problem. Rick added that Brush Creek is the presumed source of the off site RDX groundwater plume. Vaughn stated that there is no doubt that Brush Creek is the main source; it used to run red and workers went down to the bridge and dumped fly ash in the creek to turn it black. Scott confirmed that was at the Line 1 Impoundment Area where contaminated soil has been removed and taken to the Inert Disposal Area (IDA) and is part of what Tetra Tech is treating at the IDA. Vaughn mentioned that one time they were talking to him about why RDX and TNT were showing up in places on the plant that was far away from production areas. Vaughn said that it was because some of the farmers used sludge from the Waste Water Treatment Plant and placed it on their fields for fertilizer – that's why it showed up in areas where it wasn't suppose to be.

Paula Graham mentioned that there was a gentleman who approached her wanting to file a [worker health claim]. The gentlemen (whose name she was unsure of) told Paula that his wells

were the most contaminated and he now has cancer. Paula questioned if there was anything else in the water other than RDX. Rodger Allison stated that the gentleman can call him and he will provide all the historical data to the gentleman. Scott Marquess added that RDX was the only chemical of concern. Terry Thonen concurred and said that the only chemical that exceeded the Health Advisory Level (HAL) at that time was RDX. Rodger added that the Army screened for other analytes, like metals and other explosives, but RDX was the only chemical exceeding the HAL. Paula added that she wanted to bring this up because the gentleman is really concerned and has a lot of medical bills. Scott questioned if this gentleman had a contaminated well. Paula added that he has several wells that are contaminated, but he has been hooked up to rural water. Paula said he is concerned and knows many other people that have cancer in that area. Rodger said that if the gentleman is still interested, have him call. Scott stated that there needs to be an exposure to have a relationship between cancer and the contaminated groundwater. Just because this is a contaminated area, they would have to be drinking the water to have an exposure. Scott further said that the concentration has decreased over time. The surface water contaminant levels use to be really high when Brush Creek ran red, but the levels now are relatively low by the groundwater supply wells, less than 10 ppb and our criteria is 2 ppb. Scott further added that we can't really address very well what the levels may have been in the past - he thinks 3 wells were historically confirmed to have elevated levels of RDX concentration. Rodger added that initially there were 6 wells that had elevated RDX and the last time the Army sampled the wells in the late 1990's, there were 3 wells with elevated RDX concentrations; 2 wells had 6 ppb and 1 well had around 2 ppb.

Paula Graham stated that people are also concerned about the residual contamination left at Line 1 after AEC nuclear operations were moved to Pantex. IAAAP is not on the worker compensation list and she spoke with Senator Grassley and he is supposed to make some calls and get back with her. Paula said many people that worked on Line 1 after 1975 have cancer and wondered if there was any correlation. Rodger Allison stated that Pantex sampled the buildings after AEC left in 1975 and everything was below action levels. Scott Marquess said that FUSRAP sampled later [circa 1999] and there were 2 or 3 areas that had residual contamination. Scott said that FUSRAP did a more recent wide-scale survey for radiological contamination in the buildings. Paula mentioned that she read a report where FUSRAP found some contamination in a pan in one building and in a filter in another building. Scott said that this was a couple years ago, but even more recently in FUSRAP's larger scale survey, they didn't find anything. Rodger said that the FUSRAP group would have a better handle on this information. Scott said in general, he doesn't think FUSRAP found anything reportable. [Subsequently, we discovered that DoD has hired the University of Iowa to conduct a worker health survey for non-Atomic Energy Commission workers who worked at the Iowa AAP.]

Vaughn Moore questioned if FUSRAP found anything in the squash pits at building 1-11. Vaughn explained the 3-man operation where they squashed the pit. Rodger Allison stated that FUSRAP checked building 1-11.

Paula Graham said that she brought this up about the residual contamination at Line 1 because some people have cancer. She added that the Army brought back unused ammunition from the gulf war that contained depleted uranium and took it apart. Rodger said that this work was done under NRC License and the workers were under continual monitoring. Rodger added that active records exist for this work.

Scott Marquess added that FUSRAP's survey for radiological contamination would document the interior building survey. Rodger can provide documents if needed. Rodger suggested Paula call him to make arrangements to get information to her.

MMRP Update

Jady Harrington briefed the RAB from a slide presentation. Please see exhibit 4 for her presentation.

Remedial Investigation Field Activities

Paula Graham asked if they are looking for UXO or detonators at Line 6. Jady Harrington responded, in effect, both. She said that MMRP is looking at 7 sites which include: Central Test Area, Line 6, Possible Demolition Site, Maneuver Area, Incendiary Disposal Area, West Burn Pads, and West Burn Pads South. Jady further added that a Geophysical Investigation has been completed at Line 6 and the Central Test Area so they will use those results to reacquire the anomalies.

Vaughn Moore questioned if they are removing any TNT when found. Jady said they are contracted to dispose of any DMM or UXO they find; if they find it, they will take care of it.

Vaughn Moore asked if the Army ever found the buried TNT in the timber by the burning field. Rodger Allison responded that he never found anything, but the MMRP folks are looking at that area. Rodger further added that CHPPM came up and walked through the timber and looked for any stressed vegetation or evidence of buried TNT, but could not find anything. Vaughn further added that he could show them on a map after the meeting where the TNT was buried, between gate 1 and the timber.

Paula Graham was informed of a lady's husband that used to work out at the plant, who would bury toxic substances in a cemetery. Paula questioned if any investigations have been done in the cemeteries. Rodger Allison said we don't have any evidence to lead up to sampling a cemetery. Rodger asked what cemetery Paula was referring to. Paula is unsure and the lady's husband is passed now. Rodger said there was one cemetery where the graves were re-interred elsewhere. This was near the current Incendiary Disposal Area. Rodger indicated this was the old Swedish Cemetery.

FUSRAP

Rodger Allison provided an update. FUSRAP came to the plant over the summer and marked some sampling locations and did some initial walkovers. They have developed their Draft Remedial Investigation Work Plan and Draft Remedial Design/Remedial Action Work Plan for Line 1 and West Burn Pads Area South (WBPS). EPA is reviewing these documents. FUSRAP hasn't done any intrusive sampling yet; they will begin once the Work Plan's are final. Scott Marquess added that FUSRAP did some investigatory work at all FUSRAP sites except Line 1 and WBPS.

Vaughn Moore questioned if FUSRAP has done anything yet at the blow wall at Yard E. Rodger said that FUSRAP evaluated and he was not sure of the evaluation outcome.

Public Comment

Vaughn Moore asked what was done with the Line 7 concrete. Rodger Allison said that some of the concrete was contaminated with PCB's and was hauled offsite to an approved landfill in

Peoria Illinois. The concrete that was cleared was either sent to the Des Moines County Landfill or went into Lake Mathes for fish habitat. Rodger further explained that the concrete was sampled, tested, and categorized as to where it could be disposed. Vaughn asked if this was standard operation for other buildings that will be taken down. Rodger replied that yes, it was standard operation and the Army will reuse and recycle as much as we can. Paula Graham asked how many lines have been torn down. Rodger responded that only Line 7 along with some individual buildings and a couple of barns have been torn down. The Army is looking to tear down Lines 5A and 9. Paula asked how the Freon at Line 9 is. Rick Arnseth said that the levels in the groundwater do not pose a risk so right now they are just monitoring it and there are no plans to remediate. Paula added that, at one time, the Freon levels were very strong.

Vaughn Moore mentioned that a while back Kevin Howe called him at home regarding the locations of old tanks and how the stuff led out of the buildings and into the ground at Line 9. Vaughn said they were trying to evaporate the Freon. Vaughn mentioned that he told Kevin to watch Line 8 at the north end because they buried ammonium nitrate there. Paula Graham added that they used a lot of Freon at Renovation when she used to work there.

Thurman Huffman asked what the Army is listing for AEC use in Yard L. Rodger Allison said L1, 2, and 3 were used by AEC. Thurman said that warehouse 21 was used by AEC. Thurman added that there were hydrogen manufacturing units in Yard L, warehouse 21. Thurman also mentioned that AEC used 3-01. Rodger said that FUSRAP is looking at 3-01.

Marjorie Fitzsimmons suggested getting a field trip/tour arranged to see some of the sites that we discuss during the RAB meetings. Rodger Allison will try to arrange to have the tour in September since hunting season starts in October. It would be easiest to do the tour through the Army's normal work week.

Vaughn Moore questioned the process to get in to see the memorial. LTC Nutt responded that gate 4 is the entrance to get to the memorial. From there, the guards will show you where to go. Paula Graham asked if the names of those lost at the IAAAP were on the memorial. LTC Nutt said that it was originally planned to have the names listed on the memorial, but we have decided to build an outdoor structure with a glass plate to include the names of those who lost their lives. This will allow for corrections or adjustments as more information becomes available.

Next Meeting/Draft Agenda

The next meeting is scheduled for January 20, 2009 at the Winegard Board Room located in the Burlington/West Burlington Area Chamber of Commerce. Agenda topics suggested were IRP project update, MMRP update, CC Update, and FUSRAP update.

The meeting was adjourned at 6:15 p.m.

Original signed by:
see original for signature
Sara Garland
Secretary

Original signed by:
see original for signature
Eric Orth
Community Co-Chair

Original signed by:
see original for signature
Rodger Allison
Army Co-Chair

- Exhibits: 1 Attendees
 2 Agenda
 3 Restoration Project
 4 MMRP Update

Exhibit 1

RAB MEMBERS PRESENT

Marjorie Fitzsimmons
Dan Nelson
Eric Orth

RAB MEMBERS NOT PRESENT

Mark Hagerla
Elyn Holton-Dean
Richard Johnson
Dean Vickstrom
Bruce Workman

GOVERNMENT MEMBERS PRESENT

LTC Benjamin Nutt
Rodger Allison
Scott Marquess
Dan Cook

GOVERNMENT MEMBERS ABSENT

Dan McGhee

PUBLIC

Jady Harrington
Terry Thonen
Linda Wobbe
Cyril Onewokae
Vaughn Moore
Thurman Huffman
Paula Graham
Lueene McCracken
Sara Garland