

Final Meeting Minutes
Restoration Advisory Board (RAB) Meeting
Sunflower Army Ammunition Plant (SFAAP)
Wednesday, September 1, 2004

1. The thirty-ninth RAB meeting was held on Wednesday, September 1, 2004, in the Clearview City Ball Room. Copies of the agenda and sign-in sheet are attached. Mr. Tony Spaar, the Commander's Representative at SFAAP and Army RAB Co-chair, called the meeting to order at approximately 6:00 p.m. Introductions were made around the room.
2. Mr. Spaar then asked for comments regarding the draft minutes from the March 3, 2004 meeting. Mr. Leon Coker moved that the minutes be approved with changes to Number 3 as submitted, seconded by Mr. Tom Price. Minutes approved with change.

3. IRP Project Update

A. FY05 Obligation Plan:

Mr. Spaar handed out a spreadsheet showing the planned dates that all the sites for FY05 will be funded (spreadsheet attached).

B. Corp of Engineers Update

- a. **Long Term Monitoring:** USACE will collect groundwater samples at SWMUs 11 and 33/35 at Sunflower AAP in late September 2004. These wells were last sampled in May 2004 for Nitrates, Sulfates, Lead, Phthalates, SVOCs, Explosives, Nitrate/Nitrite, Ammonia Sulfate and Metals.
- b. **Five Year Review:** As reported at the July 2004 RAB, USACE is preparing a review of all remediated sites with contaminants left in place above unrestricted use levels.

C. Shaw Update of Ongoing Work

Task Order 004 – SWMU 22 – Old Explosive Waste Burning Grounds

- **SWMU 22 - Old Explosive Waste Burning Grounds:** The excavation, screening, stockpiling, delineation sampling, confirmation sampling and sampling for off-site disposal are complete. Transportation, disposal of remaining soil, and site grading is on hold pending receipt of additional funding. 34,500 tons have been transported to landfill for disposal, approximately 7500 tons are remaining in the stockpile to be transported to landfill for disposal.

Task Order 007

- **(SWMU 66) Phase II Stream Study:** The second round of Phase II sampling in Kill, Spoon and Captain Creeks was completed last week. This completes Phase II of the study which included Low Flow/Base Flow sampling and in-stream location sampling. Shaw plans to present results of the Phase II sampling to the TRC and RAB at November meetings. Phase III is currently being estimated and negotiated and is scheduled for sampling in January or February 2005.
- **SWMU 21 – Contaminated Materials Burning Ground**
 - **RFI Investigation:** All comments on the draft CMS were received and incorporated, and then the document was reissued as a draft final this week
 - **Bioremediation Pilot Test Update:** Sampling was completed last month, and the analytical results have been received and are being validated. Once this is complete, a determination of what will happen to the soil will be made.
- **Disposal Optimization Treatability Study (DOTS):** Phase I of the field sampling was conducted in April 2004. The soils were sent to Shaw's Technology Lab and analyzed for both Total and TCLP metals, VOCs, and SVOCs. After the analytical results were received, a bench study was performed in which different admixtures and percentages of admixtures were added to the soil. These samples were allowed to cure and were then resampled for TCLP metals, VOCs, and SVOCs. The analytical results showed only one of the sites, Hazardous Analysis Testing Lab (AOC 15) would require chemical treatment or admixture addition prior to shipping off-site for disposal. Eight additional sites were then added to this study and the results of these will be used to further define, in advance, which sites will require chemical treatment or treatment by mechanical screening only. These will also make the study more comprehensive which should allow the EPA to prepare a site wide Statement of Basis), which in turn will allow the Army to move the sites to cleanup phase faster and help with the land transfer negotiations. A Treatability Report will be prepared after all of the analytical results are received and evaluated, which will outline individual SWMU/AOC treatment requirements.

Task Order 008

- **SWMU 18 – Old/New Sanitary Landfills:** This is an RFI investigation to locate the boundaries of the landfill cells, determine the approximate depth and design of the existing cover, determine groundwater flow direction, and gather enough information to begin a design for the remedy. The Draft work plan has been submitted and comments have been received. The work plan is currently being revised and will be distributed as a Draft Final the week of September 17, 2004.
- **SWMU 10 – F-Line Ditches, Mechanized Roll Area and Upland Building Foundations:** All of the investigation sampling has been completed. Negotiation for the remedial cleanup has been completed. The Draft additional characterization report is complete as well as the draft work plan for excavation.

These have been submitted to the TRC for review. The plans will be in place so that when funding becomes allocated the Remedial Action can begin..

- **SWMUs 3 – Main Sewage Treatment Plant:** All soil sampling has been completed. Installation and sampling of temporary piezometers has been completed. The two monitoring wells have been installed, developed and sampled. Shaw is currently waiting on analytical results. There will be a report prepared detailing the findings and recommendations for further actions.
- **SWMU 14 – Static Rocket Test Area:** Groundwater sampling and surface soil sampling has been completed. A drawing was prepared showing the areas that need to be excavated. Results showed Nitroglycerine and metals contamination in surface soils above residential cleanup levels and metals contamination (Manganese) in groundwater above secondary MCLs. The contaminated soil will be removed and transported off site for disposal, followed by one round of groundwater sampling in the existing monitoring wells. After a receipt of all data, the site will be evaluated for closure.
- **SWMU 41 – Calcium Carbonate Cake Landfill:** Shaw completed sampling of the initial 16 monitoring wells in June 2004. The analytical results were reviewed and a letter was prepared that outlined the proposed plan for the next phase which is two rounds of sampling 6 wells.
- **SWMU 25 – Nitrocellulose Area Ditches:** This will be an RFI addendum to close data gaps identified in the previous investigation. Sampling will be for Nitrocellulose and metals in soils and groundwater. Shaw recently completed an Explosive Safety Assessment of this site which showed little or no explosive contamination with the highest percentage from the field test kits being less than 200 ppm or 0.02%. The Draft work plan is being prepared and is scheduled for distribution the week of September 17, 2004.
- **SWMU 53 – Burn and Debris Area North of the Sewage Treatment Plant:** This is an RFI investigation and the scope is to sample surface soil, subsurface soil and sediment. The Draft work plan has been submitted to the TRC for review. Once the comments are received, the plan will be revised and resubmitted to the TRC. The investigation will begin in early October 2004.
- **Groundwater Operable Units – GWOU 1 & GWOU 2:** The Draft plans for both have been submitted. GWOU 1 comments have been received and the plan is being revised. The GWOU 1 Draft Final is scheduled for distribution next week. Comments on GWOU 2 are scheduled to be received next week.
- **Explosive Safety Assessment:** Seven sites were selected for this study and field work is currently in progress. The NG (Nitroglycerine) Area (SWMU 24) required the use of remote sampling equipment due to the concern that NG in high concentrations could be present. Currently one site remains to be sampled and analyzed; this site will be completed this week. To date, the highest concentration found was 500 ppm or 5/100th of a percent. For a site to be considered an explosive hazard, concentrations of explosives at 100,000 ppm would have to be detected.

- **Database:** Shaw continues to enter sampling data into a data base and uploading data into IRIS as received.
- 4. CHPPM Evaluation of SFAAP RAB:** CHIPPM evaluation of different RABs across country to evaluate how people feel about them and initiate changes in guidelines to make improvements.
 - 5. New Business:** Add Phase II Stream Study Presentation to agenda for next RAB.
 - 6. Question and Answers**
 - Mr. Oyler asked why Non-ER,A work is not included in the RAB. Mr. Spaar commented that, per Army Guidelines, Army RABs are paid for by ER,A funding, therefore Army RAB discussion must be limited to ER,A funded projects..
 - 7.** The next RAB meeting will be held on November 3, 2004 (first Wednesday of the month) at 6:00 pm.
 - 8.** Meeting was adjourned at 7:30 pm and opened up to Mr. Blaine Hastings (GSA) and to Non-ER, A updates and questions.

Sunflower's FY05 Obligation Plan

SITE ID	SITE DESCRIPTION	PHASE ID	1st QTR PLANNED OCT	1st QTR PLANNED NOV	1st QTR PLANNED DEC	2nd QTR PLANNED JAN	2nd QTR PLANNED FEB	2nd QTR PLANNED MAR	3rd QTR PLANNED APR	3rd QTR PLANNED MAY	3rd QTR PLANNED JUN	TOTAL PLANNED
SAAP-001	Classification Yard	PY RI S&R	850									850
SAAP-003	Sewage Treatment Plant Drying Beds	PY RI S&R	4,925									4,925
SAAP-008	N. Acid Area - Chromate Conc. Pond	RI			49,999							49,999
SAAP-010	F-Line Area Ditches	RAC	483,510									483,510
SAAP-010	F-Line Area Ditches	CY RAC S&A	41,826									41,826
SAAP-013	South Acid Area LWTP Evap. Lagoons	PY LTM S&R	16,276	16,277								32,553
SAAP-013	South Acid Area LWTP Evap. Lagoons	LTM						12,500				12,500
SAAP-013	South Acid Area LWTP Evap. Lagoons	CY LTM S&R						1,875				1,875
SAAP-014	Rocket Static Test Area	PY RI S&R	3,157									3,157
SAAP-018	Old/New Sanitary Landfill	PY RI S&R	7,762	7,761								15,523
SAAP-021	Contaminated Materials Burn Ground	PY RI S&R	2,864									2,864
SAAP-021	Contaminated Materials Burn Ground	RD							70,000			70,000
SAAP-021	Contaminated Materials Burn Ground	CY RD S&R							5,600			5,600
SAAP-021	Contaminated Materials Burn Ground	RAC									1,900,000	1,900,000
SAAP-021	Contaminated Materials Burn Ground	CY RAC S&A									106,776	106,776
SAAP-022	Old Explosive Waste Burning Ground	RAC	221,882									221,882
SAAP-022	Old Explosive Waste Burning Ground	CY RAC S&A	15,532									15,532
SAAP-025	Nitrocellulose Area Ditches	PY RI S&R	7,066									7,066
SAAP-033	Paste Area Half Tanks & Ditches	PY LTM S&R	3,302									3,302
SAAP-035	Nitroglycerine Area Settling Ponds	PY LTM S&R	3,302									3,302
SAAP-039	South Acid Area Ditches	PY RI S&R	850									850
SAAP-041	Calcium Carbonate Cake Landfill	PY LTM S&R	2,707									2,707
SAAP-044	Tank T784	PY RI S&R	1,450									1,450
SAAP-045	Bldg 9040 & Ca. Cyanamide Conveyor	PY RI S&R	6,958	6,959								13,917
SAAP-047	Nitroguanidine Area (25) Sumps	PY RI S&R	225									225
SAAP-050	Disposal Site East of SWMU 1	PY LTM S&R	868									868
SAAP-051	New Reclamation Yard	RI									182,492	182,492
SAAP-051	New Reclamation Yard	CY RI S&R									29,049	29,049
SAAP-053	Burn and Debris Area North of STP	PY RI S&R	7,365									7,365
SAAP-058	Combined Shops Area	RI									230,377	230,377
SAAP-058	Combined Shops Area	CY RI S&R									59,538	59,538
SAAP-060	Old Photographic Laboratory	RI									94,049	94,049
SAAP-060	Old Photographic Laboratory	CY RI S&R									14,809	14,809
SAAP-066	Installation-wide Stream Study	RI				280,000						280,000
SAAP-066	Installation-wide Stream Study	CY RI S&R				42,000						42,000
SAAP-114	Robert's Lake	RI									175,682	175,682
SAAP-114	Robert's Lake	CY RI S&R									21,968	21,968
SAAP-122	Old Reclamation Yard	RI									279,710	279,710
SAAP-122	Old Reclamation Yard	CY RI S&R									58,302	58,302
	TOTALS:		832,677	30,997	49,999	322,000	0	14,375	75,600	0	3,094,450	4,478,400