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From: Stewart, Patricia, NMENV
Sent: Wednesday, July 07, 2010 3:21 PM
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Cc: Neelam Dhawan (neelam.dhawan@state.nm.us); Dave.Cobrain@state.nm.us
Subject: SWMU 96 C A F B
Attachments: 4 pages RE SWMU 96.pdf

Hi Hugh:

I am looking at the reports and data for SWMU 96 again, as part of reviewing the revised CAC Proposal for SWMUs 2, 4, 6, et al. To see the complete data and summary for SWMU 96, I reviewed *RCRA Facility Investigation for 21 SWMUs, Final Revision 1, October 2007* (RFI for 21 SWMUs) and found some problems. Some data are missing in that report and I think that the data might not be summarized correctly in the CAC Proposal. I'm trying to sort it out and hope to avoid another NOD.

Attached are 4 scanned pages. The first page is one page of Section 20 from the RFI for 21 SWMUs. On the right hand margin are my notes indicating that data for only 7 borings (drilled in November and December 1986) are presented in Table D-15 and data for one soil boring reported in W-C 1994 are not presented in Table D-15. The next two pages are the first two pages of Table D-15 from the RFI for 21 SWMUS with my notes indicating the missing data. The fourth page is the third page of references from the RFI for 21 SWMUs, with the W-C 1994 report circled. NMED does not have a copy of this report.

So...can you find data for the November 1986 Boring B2 and the W-C 1994 report that has, hopefully, data for one soil boring to 102 ft bgs sampled at 10 ft intervals? Thanks in advance.

Regards,
Pat

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20.1 SWMU 96 DESCRIPTION

SWMU 96 was located behind Building 2160 (Figure 20-1), pesticide storage building, which was abandoned in October 1983 and demolished in September 1984. During the site's use, pesticide and herbicide application equipment was cleaned in a sink located inside Building 2160. The sink drained into a 3-foot-square and 2-foot-deep pit at the rear of the building. The bottom of the pit was reported to be unlined and open to the soil (W-C 1992).

The IRP Phase II investigation for SWMU 96 detected potentially significant concentrations of pesticides and herbicides in samples collected from two soil borings (Radian 1986). An IRP Phase IV-A investigation of SWMU 96 (Walk, Haydel 1990) was completed to confirm and delineate the potential contamination detected during the IRP Phase II investigation. During this investigation, eight soil borings were drilled and sampled. Four soil borings were drilled to 50 feet bgs, and four were drilled to 100 feet bgs. The Phase IV-A investigation did not detect herbicides and only detected pesticides at concentrations of potential concern in samples collected near the ground surface.

Data for only 7 borings are in Table D-15

An RI (W-C 1992) included collection and analysis of one surface soil sample and one groundwater sample. The surface soil sample was collected at the approximate location of the sink rinse pit. The results of the RI were used to complete a BRA. The pesticides 4,4-DDE, 4,4-DDT, alpha- and gamma-chlordane, and heptachlor epoxide were identified as COPCs. No unacceptable non-carcinogenic or carcinogenic human health risks were identified for the site. No pesticides or PCBs were detected in groundwater, and none of the inorganic chemical concentrations detected in groundwater exceed a maximum contaminant level (MCL). The COPECs at SWMU 96 were determined not to exceed background concentrations for the ecological risk screening; therefore, no unacceptable ecological risk was identified.

A supplemental RI was also completed for SWMU 96 to address current conditions at the sink rinse pit (W-C 1994). One soil boring was drilled to a depth of 102 feet bgs, and samples were collected at 10-foot intervals. Ten subsurface samples were collected and analyzed for VOCs, SVOCs, TAL metals, pesticides/PCBs, chlorinated herbicides, total recoverable petroleum hydrocarbons (TRPH), gasoline-range organics (GRO), and total chromatographical organics (TCO). Two pesticides, 4,4-DDE and 4,4-DDT, were detected at estimated concentrations below the laboratory reporting limits in the sample from 10 feet bgs. Detected metals were within background ranges.

Data for this boring are not in Table D-15

20.2 RFI ACTIVITIES

The results and conclusions of the previous IRP Phase II, Phase IV-A, RI, and supplemental RFI were reevaluated using current methods and screening criteria during this RFI. The analytical results are summarized in Appendix D, Table D-15.

20.2.1 Data Assessment

As part of the RFI, analytical results obtained from previous investigations of SWMU 96 were reviewed. These previous investigations are summarized below.

TABLE D-15
SWMU 96 DATA SET TABLE
CANNON AFB, NEW MEXICO

SITE ANALYTE UNITS	Date Collected	SWMU 96 alpha Chlordane mg/kg			SWMU 96 gamma Chlordane mg/kg			SWMU 96 Dieldrin mg/kg		SWMU 96 2,4-D mg/kg			
		Result	RL	Qual	Result	RL	Qual	Result	RL	Result	RL	Qual	
0961-0	October 24, 1991	1.60E-02		J	4.70E-02		J	<		U	<		U
0962-30	November 1986 *	<		U	<		U	<		U	<		U
0962-40	November 1986 *	<		U	<		U	<		U	<		U
0962-50	November 1986 *	<		U	<		U	<		U	<		U
0962-60	November 1986 *	<		U	<		U	<		U	<		U
0962-70	November 1986 *	<		U	<		U	<		U	<		U
0962-80	November 1986 *	<		U	<		U	<		U	<		U
0962-90	November 1986 *	<		U	<		U	<		U	<		U
0962-100	November 1986 *	<		U	<		U	<		U	<		U
096K	November 13, 1991												
17A-1-2	November 27, 1984	<		U	<		U	2.00E-06			<		U
17A-2-5	November 27, 1984	<		U	<		U	<		U	2.83E-01		
17A-3-7.5	November 27, 1984	<		U	<		U	<		U	5.90E-02		
17A-4-62	November 27, 1984	<		U	<		U	<		U	3.41E+00		
17B-1-4	November 27, 1984	<		U	<		U	<		U	<		U
17B-2-9	November 27, 1984	<		U	<		U	<		U	<		U
17C-1-2	November 27, 1984	<		U	<		U	<		U	<		U
17C-2-9	November 27, 1984	<		U	<		U	<		U	<		U
17C-3-61	November 27, 1984	<		U	<		U	<		U	4.06E-01		
B1-0	November 1986 *	7.00E-01			<		U	<		U	<		U
B1-1	November 1986 *	<		U	<		U	<		U	<		U
B1-2	November 1986 *	<		U	<		U	<		U	<		U
B1-5	November 1986 *	<		U	<		U	<		U	<		U
B1-7	November 1986 *	<		U	<		U	<		U	<		U
B1-61	November 1986 *	<		U	<		U	<		U	<		U
B1-62	November 1986 *	<		U	<		U	<		U	<		U
B3-0	November 1986 *	1.00E-01			<		U	<		U	<		U
B3-1	November 1986 *	<		U	<		U	<		U	<		U
B3-2	November 1986 *	<		U	<		U	<		U	<		U
B3-5	November 1986 *	<		U	<		U	<		U	<		U
B3-7	November 1986 *	<		U	<		U	<		U	<		U
B3-61	November 1986 *	<		U	<		U	<		U	<		U
B3-62	November 1986 *	<		U	<		U	<		U	<		U
B4-0	November 1986 *	5.00E-01			<		U	<		U	<		U
B4-1	November 1986 *	<		U	<		U	<		U	<		U
B4-2	November 1986 *	<		U	<		U	<		U	<		U
B4-5	November 1986 *	<		U	<		U	<		U	<		U
B4-7	November 1986 *	<		U	<		U	<		U	<		U

Data for B2 Boeing all missing

**TABLE D-15
SWMU 96 DATA SET TABLE
CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 alpha Chlordane mg/kg			SWMU 96 gamma Chlordane mg/kg			SWMU 96 Dieldrin mg/kg			SWMU 96 2,4-D mg/kg		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
B4-61	November 1986 *	<		U	<		U	<		U	<		U
B4-62	November 1986 *	<		U	<		U	<		U	<		U
B5-0	December 1986 *	3.00E-01			<		U	<		U	<		U
B5-1	December 1986 *	2.00E-01			<		U	<		U	<		U
B5-2	December 1986 *	<		U	<		U	<		U	<		U
B5-5	December 1986 *	<		U	<		U	<		U	<		U
B5-7	December 1986 *	<		U	<		U	<		U	<		U
B5-61	December 1986 *	<		U	<		U	<		U	<		U
B5-62	December 1986 *	<		U	<		U	<		U	<		U
B6-0	December 1986 *	1.00E+00			<		U	<		U	<		U
B6-1	December 1986 *	<		U	<		U	<		U	<		U
B6-2	December 1986 *	<		U	<		U	<		U	<		U
B6-5	December 1986 *	<		U	<		U	<		U	<		U
B6-7	December 1986 *	<		U	<		U	<		U	<		U
B6-61	December 1986 *	<		U	<		U	<		U	<		U
B6-62	December 1986 *	<		U	<		U	<		U	<		U
B7-0	December 1986 *	5.00E-01			<		U	<		U	<		U
B7-1	December 1986 *	2.00E-01			<		U	<		U	<		U
B7-2	December 1986 *	<		U	<		U	<		U	<		U
B7-5	December 1986 *	<		U	<		U	<		U	<		U
B7-7	December 1986 *	<		U	<		U	<		U	<		U
B7-61	December 1986 *	<		U	<		U	<		U	<		U
B7-62	December 1986 *	<		U	<		U	<		U	<		U
B8-0	December 1986 *	3.00E-01			<		U	<		U	<		U
B8-1	December 1986 *	<		U	<		U	<		U	<		U
B8-2	December 1986 *	<		U	<		U	<		U	<		U
B8-5	December 1986 *	2.00E-01			<		U	<		U	<		U
B8-7	December 1986 *	<		U	<		U	<		U	<		U
B8-61	December 1986 *	<		U	<		U	<		U	<		U
B8-62	December 1986 *	<		U	<		U	<		U	<		U

Notes: *Precise date of collection could not be determined.

Shading indicates samples deeper than 10 feet below ground surface that were not used for screening.

mg/kg = Milligram per kilogram

Qual = Qualifier

RL = Reporting Limit

SWMU = Solid Waste Management Unit

U = Nondetect

UJ = Estimated Nondetect

*Data for me soil boring to 102 ft bgs sampled at 10 ft intervals missing.
Reported in N-C 1994*

SECTION TWENTY-SEVEN

References

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- W-C. 1997c. RCRA Facility Investigation, Appendix II SWMUs - Phase II. Cannon AFB, New Mexico. Final RFI Report. November.

NMED does not have copy of this report.