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Wanslow, Julie, NMENV

From: Wanslow, Julie, NMENV **Sent:** Wed 6/29/2005 4:53 PM
To: Frischkorn, Cheryl, NMENV
Cc: Cobrain, Dave, NMENV; Kieling, John, NMENV; Bearzi, James, NMENV; Holmes, Steve, NMENV
Subject: FW: Cannon Perchlorate data and contact info
Attachments: CAFBperchlorateresults12-04 drc.xls(25KB)

CAFB
2005

Cheryl,

Don Clark of the NMED Clovis Office called and asked whether our bureau wanted Cannon Air Force Base (CAFB) and Melrose Bombing Range to continue to sample the ground water for perchlorate. He said CAFB has been sending his office perchlorate analytical data (since 1999 I think) and that his office has boxes and boxes of data for CAFB and Melrose. I asked him if they are still finding perchlorate in the ground water and he said yes. I asked if he had an electronic copy of the data or an index that listed the data they had received. He said no. I asked if he had evaluated the data or had a summary of it. He said no. I told him that we would need to review the data before we could make a decision. Don said he would ask CAFB if they had a summary of the data and send it to us.

Attached is the summary that Don sent. It does not include the perchlorate data collected by HWB during the EPA funded perchlorate survey in 2001.

Most of the perchlorate concentrations at CAFB and Melrose have been found in on-site facility water supply or production wells. Perchlorate has been detected in Production Wells 2, 7, 12 at CAFB, and in Production Wells 11 and 13 at Melrose. CAFB has not found perchlorate in Production Well 12, but we did in 2001 during the EPA funded Perchlorate Survey. I believe the production wells have relatively long screens. CAFB has also detected perchlorate in Well 4A, but it is not clear whether this is a production well or a monitor well. The erratic concentrations of perchlorate in these wells may be due to variations in the recharge rate (this is a recharge zone for the Ogallala). The long screens in the production wells may be causing excessive dilution of the perchlorate and the actual concentrations may be significantly higher than the levels we are seeing.

The perchlorate concentrations in the ground water at CAFB and Melrose are significantly higher (3 to 46 ppb) than the low levels of perchlorate that were found in the ground water in west Texas and eastern New Mexico (0.5 to 1.0 ppb) during a recent Texas Tech University study.

Steve Holmes told me that CAFB disposed of 15% perchloric acid solution on the ground outside of the CAFB jet maintenance building and the jet accessory building from approximately 1972 to 1986. Please see Steve for additional details.

I hope this is helpful.

Julie

Julie

I am attaching a file developed by Chris Bohler containing the perchlorate data from Cannon AFB.

The samples for the above results come from the base proper and the Melrose Bombing Range (25 plus miles west of the base) The values are generally low except for some of the earliest samples (possible sampling errors) and some of the wells at the bombing range.

Chris's contact info is given below. He is planning on leaving Cannon around the 10th of July. His replacement will be SSgt Chris Porter (christopher.porter@cannon.af.mil).

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Let me know if continued sampling is required.

drc

Don Clark
Hydrologist A
NMED-Drinking Water Bureau
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Clovis, NM 88101
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Cannon Air Force Base and Melrose Bombing Range Perchlorate Results
6/27/2005

Installation Name	State	EPA Region	Regulatory Driver Cited **	Well Number	#UCMR Rounds Completed	Additional Sampling Planned	Expected Date of NextDW Sampling	Date(s) Sampling Conducted	Sample ID Number	Sampling/Analytical Method	Perchlorate Sampling Result (ppb)	Comments/reference
Cannon AFB	NM	6	EPA UCMR	2	5	Yes	Jan-Mar 04	3/23/1999	GP990160	EHL Perchlorate	46	Samples taken after chlorination. Resampled
Cannon AFB	NM	6	EPA UCMR	3	5	Yes	Jan-Mar 04	3/23/1999	GP990156	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	5	5	Yes	Jan-Mar 04	3/23/1999	GP990158	EHL Perchlorate	<0.5	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	3/23/1999	GP990161	EHL Perchlorate	21	Samples taken after chlorination. Resampled
Cannon AFB	NM	6	EPA UCMR	8	5	Yes	Jan-Mar 04	3/23/1999	GP990159	EHL Perchlorate	<5.0	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	3/23/1999	GP990162	EHL Perchlorate	25	Samples taken after chlorination. Resampled
Cannon AFB	NM	6	EPA UCMR	12	5	Yes	Jan-Mar 04	3/23/1999	GP990157	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	2	5	Yes	Jan-Mar 04	4/20/1999	GP990174	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	2	5	Yes	Jan-Mar 04	4/20/1999	GP990178	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	4/20/1999	GP990175	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	4/20/1999	GP990179	EHL Perchlorate	<5.0	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	4/20/1999	GP990176	EHL Perchlorate	11	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	4/20/1999	GP990177	EHL Perchlorate	<5.0	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	4/20/1999	GP990181	EHL Perchlorate	<5.0	

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Cannon AFB	NM	6	EPA UCMR	2	5	Yes	Jan-Mar 04	4/19/2000	GP000164	EHL Perchlorate	5.7	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	4/19/2000	GP000165	EHL Perchlorate	31	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	4/19/2000	GP000166	EHL Perchlorate	7	
Cannon AFB	NM	6	EPA UCMR	3	5	Yes	Jan-Mar 04	4/28/2000	GP000170	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	5	5	Yes	Jan-Mar 04	4/28/2000	GP000171	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	4/28/2000	GP000172	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	4A	5	Yes	Jan-Mar 04	5/5/2000	GP000177	EHL Perchlorate	6.4	
Cannon AFB	NM	6	EPA UCMR	8	5	Yes	Jan-Mar 04	6/15/2000	GP000265	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	12	5	Yes	Jan-Mar 04	6/15/2000	GP000266	EHL Perchlorate	<5.0	
Cannon AFB	NM	6	EPA UCMR	3	5	Yes	Jan-Mar 04	4/1/2001	GP010104	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	5	5	Yes	Jan-Mar 04	4/1/2001	GP010106	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	4/1/2001	GP010103	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	8	5	Yes	Jan-Mar 04	4/1/2001	GP010101	314	<4.0	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	4/1/2001	GP010099	314	25	
Cannon AFB	NM	6	EPA UCMR	12	5	Yes	Jan-Mar 04	4/1/2001	GP010105	314	<4.0	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	4/1/2001	GP010100	314	6.1	
Cannon AFB	NM	6	EPA UCMR	4A	5	Yes	Jan-Mar 04	4/1/2001	GP010102	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	3	5	Yes	Jan-Mar 04	3/5/2002	GP020062	314	<4.0	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	3/11/2002	GP020207	314	29	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	3/5/2002	GP020269	314	6.6	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	3/6/2002	GP020149	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	8	5	Yes	Jan-Mar 04	3/6/2002	GP020178	314	<4.0	

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Cannon AFB	NM	6	EPA UCMR	12	5	Yes	Jan-Mar 04	3/6/2002	GP020236	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	4A	5	Yes	Jan-Mar 04	3/6/2002	GP020090	314	<4.0	
Melrose BR	NM	6	EPA UCMR	11	5	Yes	Jan-Mar 04	2/19/2003	GP030047	314	3	
Melrose BR	NM	6	EPA UCMR	13	5	Yes	Jan-Mar 04	2/19/2003	GP030172	314	6.6	
Cannon AFB	NM	6	EPA UCMR	3	5	Yes	Jan-Mar 04	2/20/2003	GP030087	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	5	5	Yes	Jan-Mar 04	2/20/2003	GP030112	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	7	5	Yes	Jan-Mar 04	2/20/2003	GP030152	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	8	5	Yes	Jan-Mar 04	2/20/2003	GP030192	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	4A	5	Yes	Jan-Mar 04	2/20/2003	GP030104	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	2	5	Yes	Jan-Mar 04	7/1/2003	GP030131	314	<4.0	
Cannon AFB	NM	6	EPA UCMR	12	5	Yes	Jan-Mar 04	7/1/2003	GP030065	314	<4.0	

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