



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 377TH AIR BASE WING (AFMC)

ENTERED

DEC 08 2009

Colonel Michael S. Duvall  
377 ABW/CC  
2000 Wyoming Blvd SE  
Kirtland AFB NM 87117-5606

Mr. William C. Olsen, Chief  
Groundwater Quality Bureau  
New Mexico Environment Department  
PO Box 26110  
Santa Fe NM 87502

Dear Mr. Olsen

As part of our responsibility to investigate the extent of the contamination related to the fuel discovered on the groundwater from the Kirtland Air Force Base Bulk Fuels facility, we are monitoring the water from an irrigation well located at the private residence of Mr. John and Mrs. Colleen Woods. I am pleased to provide a copy of the analytical results for water samples collected from their irrigation well for three quarters of monitoring (January, April, and July 2009).

I request you exercise discretion with the information provided. Under the Privacy Act, the U.S. Air Force is obligated to protect the privacy interest of personal identifiable information we collect and maintain in a system of official files. However, we can release the information on a need-to-know basis and to your agency as required under the Clean Water Act. Consequently, we are submitting the analytical results with our request for your agency to maintain the private information of the owners of the property to the maximum extent of state law. Thank you for your consideration.

If you have any questions with regarding the results or my proposal for continued monitoring, please feel free to contact me at 846-7377.

Sincerely

MICHAEL S. DUVALL, Colonel, USAF  
Commander

1 Attachment:  
Analytical results for January, April, and July 2009

KAFB3587



Chemical Class & Analytical Method <sup>a</sup>	Analyte	Location		2819 Ridgecrest	2819 Ridgecrest	2819 Ridgecrest
		Sample ID		ST106-GW-2819RC- 22012009	ST106-GW-2819RC- 01052009	ST106-GW-2819RC- 22072009
		Sample Depth (ft)		520 - 560	520 - 560	
		Sample Date		1/22/2009	5/1/2009	7/22/2009
		NMED Approved Background <sup>b</sup>	EPA MCLs <sup>c</sup>			
TPH (mg/L)	DRO	NA	NA	< 0.26	< 0.27	< 0.064
	GRO	NA	NA	< 0.064	< 0.064	< 0.32
VOCs (ug/L) Method 8260 (except EDB by method 504.1 and DBCP by method 504.1)	1,1,1,2-Tetrachloroethane	NA	NA	< 1	< 1	< 1
	1,1,1-Trichloroethane	NA	60 *	< 1	< 1	< 1
	1,1,2,2-Tetrachloroethane	NA	10 *	< 1	< 1	< 1
	1,1,2-Trichloroethane	NA	5.0	< 1	< 1	< 1
	1,1-Dichloroethane	NA	25 *	< 1	< 1	< 1
	1,1-Dichloroethene	NA	5.0 *	< 1	< 1	< 1
	1,1-Dichloropropene	NA	NA	< 1	< 1	< 1
	1,2,3-Trichlorobenzene	NA	NA	< 1.2	< 1.2	< 1.2
	1,2,3-Trichloropropane	NA	NA	< 1.5	< 1.5	< 1.5
	1,2,4-Trichlorobenzene	NA	70	< 1	< 1	< 1
	1,2,4-Trimethylbenzene	NA	NA	< 1	< 1	< 1
	1,2-Dibromo-3-chloropropane	NA	0.2	< 0.02	< 0.0199	NS
	1,2-Dibromoethane (EDB) <sup>d</sup>	NA	0.05	< 0.02	< 0.0199	< 0.0199
	1,2-Dichlorobenzene	NA	600	< 1	< 1	< 1
	1,2-Dichloroethane (EDC)	NA	5.0	< 1	< 1	< 1
	1,2-Dichloropropane	NA	5.0	< 1	< 1	< 1
	1,3,5-Trimethylbenzene	NA	NA	< 1	< 1	< 1
	1,3-Dichlorobenzene	NA	NA	< 1	< 1	< 1
	1,3-Dichloropropane	NA	NA	< 1	< 1	< 1
	1,4-Dichlorobenzene	NA	75	< 1	< 1	< 1
	2,2-Dichloropropane	NA	NA	< 5	< 5	< 5
	2-Butanone (MEK)	NA	NA	< 6	< 6	< 6
	2-Chlorotoluene	NA	NA	< 1	< 1	< 1
	2-Hexanone	NA	NA	< 5	< 5	< 5
	4-Chlorotoluene	NA	NA	< 1	< 1	< 1
	4-Isopropyltoluene	NA	NA	< 1	< 1	< 1
	4-Methyl-2-pentanone	NA	NA	< 5	< 5	< 5
	Acetone	NA	NA	< 10	< 10	< 10
Benzene	NA	5.0	< 1	< 1	< 1	

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PAHs (ug/L) Method 8310	Dibenz(a,h)anthracene	NA	NA	< 0.34	< 0.3	< 0.38
	Fluoranthene	NA	NA	< 0.45	< 0.41	< 0.51
	Fluorene	NA	NA	< 0.34	< 0.3	< 0.38
	Indeno(1,2,3-cd)pyrene	NA	NA	< 0.23	< 0.2	< 0.25
	Naphthalene	NA	30* <sup>g</sup>	f.	f.	< 1.3
	Phenanthrene	NA	NA	< 0.34	< 0.3	< 0.38
	Pyrene	NA	NA	< 0.23	< 0.2	< 0.25
Metals (mg/L) Method 6010	Iron (dissolved)	NA	0.3 (s)	< 0.1	< 0.1	0.00829 J
	Manganese (dissolved)	NA	0.05 (s)	< 0.01	< 0.01	< 0.01
Anions (mg/L) Method 300.0	Nitrate (as N)	4	10.0	0.749 J	0.79 J	0.78 J
	Sulfate	NA	250 (s)	26.6	27.5	27.5

- a. EPA analytical methods listed are for the most recent sampling event.
- b. NMED HWB Approved Background Concentrations, SNL/Kirtland AFB, Chemical Constituents in Ground Water. Concentrations exceeding background are shown in *italics*, if applicable.
- c. EPA National Primary Drinking Water Standards - Maximum Contaminant Levels (MCLs).
- d. Samples analyzed for EDB using Methods 8260 and 504.1.
- e. The WQCC regulation for PAHs of 30 ug/L is a total of the concentrations of naphthalene, 1-methylnaphthalene,
- f. Results for this compound may be reported under Method 8260, 8310, or 8270.
- Shading indicates the analyte was detected.
- J - estimated value, value is less than the laboratory reporting limit.
- "<" Indicates that the analyte was not detected. The associated numerical value is at or below the MDL.