



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

ENTERED



07-21-2010

Colonel Robert L. Maness  
377 ABW/CC  
2000 Wyoming Blvd SE  
Kirtland AFB NM 87117-5606

Mr. James P. Bearzi, Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

Dear Mr. Bearzi

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 John and Colleen Woods. I am pleased to provide a copy of analytical results for water samples collected from their irrigation well for three quarters of monitoring (October 2009, and January and May 2010).

I am requesting that you exercise discretion with the information provided. Under the Privacy Act, the US 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. Our request is for your agency to maintain the private information of the owners of the property to the maximum extent allowed by state law. Thank you for your consideration.

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

Sincerely

ROBERT L. MANESS, Colonel, USAF  
Commander

Attachment:

KAFB3425



1. Analytical results for ~~January~~<sup>2</sup>, October 2009, January and May 2010

cc:

NMED HWB, Mr. Moats w/ Atch

NMED GWQB, Mr. Olson w/ Atch

CH2M, Ms. Minchak, w/o Atch

File

Location				2819RC	2819RC	2819RC
Sample ID				ST106-GW-2819RC-08102009	ST106-GW-2819RC-13012010	ST106-GW-2819RC-05052010
Sample Date				10/8/2009	1/13/2010	5/5/2010
Analyte, Units	Method	Matrix	Screening Level			
<b>(GenChem, mg/L)</b>						
Alkalinity, Bicarbonate	E310.1	WATER		--	28.5	114
Alkalinity, Carbonate	E310.1	WATER		--	< 5	0
Alkalinity, Total	E310.1	WATER		--	28.5	114
Nitrogen, Nitrate (As N)	E300	WATER	10	.79 J	--	1 J
Nitrogen, Nitrate (as N)	E353.2	WATER	10	--	1.69251	--
Sulfate	E300	WATER		27.7	26.7	27.3
<b>(Inorganic, mg/L)</b>						
Iron, dissolved	SW6010	WATER		< .1	.00912 J	< .1
Lead, dissolved	SW6010	WATER	.015	--	--	.00471 J
Manganese, dissolved	SW6010	WATER		< .01	< .01	< .01
<b>(PAH, ug/L)</b>						
1-Methylnaphthalene	SW8310	WATER		< 1	< 1	< 1
2-Methylnaphthalene	SW8310	WATER		< 1	< 1	< 1
Acenaphthene	SW8310	WATER		< 1	< 1	< 1
Acenaphthylene	SW8310	WATER		< 1	< 1	< 1
Anthracene	SW8310	WATER		< .31	< .31	.017 J
Benzo(a)anthracene	SW8310	WATER		< .21	< .21	< .2
Benzo(a)pyrene	SW8310	WATER	.2	< .21	< .21	< .2
Benzo(b)fluoranthene	SW8310	WATER		< .21	< .21	< .2
Benzo(g,h,i)perylene	SW8310	WATER		< .21	< .21	< .2
Benzo(k)fluoranthene	SW8310	WATER		< .15	< .15	< .15
Chrysene	SW8310	WATER		< .21	< .21	< .2
Dibenzo(a,h)anthracene	SW8310	WATER		< .31	< .31	< .3
Fluoranthene	SW8310	WATER		< .41	< .41	< .4
Fluorene	SW8310	WATER		< .31	< .31	< .3
Indeno(1,2,3-cd)pyrene	SW8310	WATER		< .21	< .21	< .2
Naphthalene	SW8310	WATER		< 1	< 1	< 1
Phenanthrene	SW8310	WATER		< .31	< .31	< .3
Pyrene	SW8310	WATER		< .21	< .21	< .2
<b>(SVOC, ug/L)</b>						
1,2-Diphenylhydrazine	SW8270	WATER		< 10.2	< 10.4	< 10.2
1,3-Dinitrobenzene	SW8270	WATER		< 10.2	< 10.4	< 10.2
2,4,5-Trichlorophenol	SW8270	WATER		< 20.3	< 20.7	< 20.3
2,4,6-Trichlorophenol	SW8270	WATER		< 20.3	< 20.7	< 20.3
2,4-Dichlorophenol	SW8270	WATER		< 10.2	< 10.4	< 10.2
2,4-Dimethylphenol	SW8270	WATER		< 10.2	< 10.4	< 10.2
2,4-Dinitrophenol	SW8270	WATER		< 60.9	< 62.2	< 60.9
2,4-Dinitrotoluene	SW8270	WATER		< 20.3	< 20.7	< 20.3
2,6-Dinitrotoluene	SW8270	WATER		< 20.3	< 20.7	< 20.3

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Analyte, Units	Method	Matrix	Screening Level		
2-Chloronaphthalene	SW8270	WATER	< 10.2	< 10.4	< 10.2
2-Chlorophenol	SW8270	WATER	< 10.2	< 10.4	< 10.2
2-Methylphenol	SW8270	WATER	< 10.2	< 10.4	< 10.2
2-Nitroaniline	SW8270	WATER	< 50.8	< 51.8	< 50.8
2-Nitrophenol	SW8270	WATER	< 20.3	< 20.7	< 20.3
3,3'-Dichlorobenzidine	SW8270	WATER	< 20.3	< 20.7	< 20.3
3-Nitroaniline	SW8270	WATER	< 50.8	< 51.8	< 50.8
4,6-Dinitro-2-methylphenol	SW8270	WATER	< 60.9	< 62.2	< 60.9
4-Bromophenyl phenyl ether	SW8270	WATER	< 10.2	< 10.4	< 10.2
4-Chloro-3-methylphenol	SW8270	WATER	< 20.3	< 20.7	< 20.3
4-Chloroaniline	SW8270	WATER	< 20.3	< 20.7	< 20.3
4-Chlorophenyl phenyl ether	SW8270	WATER	< 10.2	< 10.4	< 10.2
4-Methylphenol	SW8270	WATER	< 20.3	< 20.7	< 20.3
4-Nitroaniline	SW8270	WATER	< 10.2	< 10.4	< 10.2
4-Nitrophenol	SW8270	WATER	< 50.8	< 51.8	< 50.8
Benzidine	SW8270	WATER	<b>152 R</b>	< 155	< 152
Benzoic acid	SW8270	WATER	< 60.9	<b>62.2 R</b>	< 60.9
Bis (2-chloroethoxy) methane	SW8270	WATER	< 10.2	< 10.4	< 10.2
Bis (2-chloroethyl) ether	SW8270	WATER	< 10.2	< 10.4	< 10.2
Bis (2-ethylhexyl) phthalate	SW8270	WATER	6	< 10.4	< 10.2
Butyl benzylphthalate	SW8270	WATER	< 20.3	< 20.7	< 20.3
Dibenzofuran	SW8270	WATER	< 10.2	< 10.4	< 10.2
Diethyl phthalate	SW8270	WATER	< 10.2	< 10.4	< 10.2
Dimethyl phthalate	SW8270	WATER	< 10.2	< 10.4	< 10.2
Di-n-butylphthalate	SW8270	WATER	< 20.3	< 20.7	< 20.3
Di-n-octylphthalate	SW8270	WATER	< 20.3	< 20.7	< 20.3
Hexachlorobenzene	SW8270	WATER	1	< 10.4	< 10.2
Hexachlorocyclopentadiene	SW8270	WATER	50	< 10.4	< 10.2
Hexachloroethane	SW8270	WATER	< 10.2	< 10.4	< 10.2
Nitrobenzene	SW8270	WATER	< 20.3	< 20.7	< 20.3
N-Nitrosodi-n-propylamine	SW8270	WATER	< 20.3	< 20.7	< 20.3
N-Nitrosodiphenylamine	SW8270	WATER	< 10.2	< 10.4	< 10.2
Pentachlorophenol	SW8270	WATER	1	< 62.2	< 60.9
Phenol	SW8270	WATER	< 10.2	< 10.4	< 10.2
<b>(TPH, mg/L)</b>					
Diesel Range Organics (DRO)	SW8015	WATER	<0.25	<0.26	<b>0.21 J</b>
Gasoline Range Organics (GRO)	SW8015	WATER	<0.064	<0.064	<0.064
<b>(VOC, ug/L)</b>					
1,1,1,2-Tetrachloroethane	SW8260	WATER	< 1	< 1	< 1
1,1,1-Trichloroethane	SW8260	WATER	60	< 1	< 1

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1,1,2,2-Tetrachloroethane	SW8260	WATER	10	<1	<1	<1
1,1,2-Trichloroethane	SW8260	WATER	5	<1	<1	<1
1,1-Dichloroethane	SW8260	WATER	25	<1	<1	<1
1,1-Dichloroethene	SW8260	WATER	5	<1	<1	<1
1,1-Dichloropropene	SW8260	WATER		<1	<1	<1
1,2,3-Trichlorobenzene	SW8260	WATER		<1.2	<1.2	<1.2
1,2,3-Trichloropropane	SW8260	WATER		<1.5	<1.5	<1.5
1,2,4-Trichlorobenzene	SW8260	WATER	50	<1	<1	<1
1,2,4-Trimethylbenzene	SW8260	WATER		<1	<1	<1
1,2-Dibromo-3-chloropropane	SW8260	WATER	.2	<5	<5	<5
1,2-Dibromoethane (EDB)	SW8011	WATER	.05	<.02	<.02	<.0199
1,2-Dichlorobenzene	SW8260	WATER	600	<1	<1	<1
1,2-Dichloroethane (EDC)	SW8260	WATER	5	<1	<1	<1
1,2-Dichloropropane	SW8260	WATER	5	<1	<1	<1
1,3,5-Trimethylbenzene	SW8260	WATER		<1	<1	<1
1,3-Dichlorobenzene	SW8260	WATER		<1	<1	<1
1,3-Dichloropropane	SW8260	WATER		<1	<1	<1
1,4-Dichlorobenzene	SW8260	WATER	75	<1	<1	<1
2,2-Dichloropropane	SW8260	WATER		<5	<5	<5
2-Butanone (MEK)	SW8260	WATER		<6	<6	<6
2-Chlorotoluene	SW8260	WATER		<1	<1	<1
2-Hexanone	SW8260	WATER		<5	<5	<5
4-Chlorotoluene	SW8260	WATER		<1	<1	<1
4-Isopropyltoluene	SW8260	WATER		<1	<1	<1
4-Methyl-2-pentanone	SW8260	WATER		<5	<5	<5
Acetone	SW8260	WATER		<10	<10	<10
Benzene	SW8260	WATER	5	<1	<1	<1
Bromobenzene	SW8260	WATER		<1	<1	<1
Bromochloromethane	SW8260	WATER		<1	<1	<1
Bromodichloromethane	SW8260	WATER		<1	<1	<1
Bromoform	SW8260	WATER		<1	<1	<1
Bromomethane	SW8260	WATER		<2	<2	<2
Carbon disulfide	SW8260	WATER		<2	<2	<2
Carbon tetrachloride	SW8260	WATER	5	<1	<1	<1
Chlorobenzene	SW8260	WATER	100	<1	<1	<1
Chloroethane	SW8260	WATER		<2	<2	<2
Chloroform	SW8260	WATER	100	<1	<1	<1
Chloromethane	SW8260	WATER		<2	<2	<2
cis-1,2-Dichloroethene	SW8260	WATER	70	<1	<1	<1
cis-1,3-Dichloropropene	SW8260	WATER		<1	<1	<1

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Analyte, Units	Method	Matrix	Screening Level			
Dibromochloromethane	SW8260	WATER		< 1	< 1	< 1
Dibromomethane	SW8260	WATER		< 1.1	< 1.1	< 1.1
Dichlorodifluoromethane	SW8260	WATER		< 2	< 2	< 2
Ethylbenzene	SW8260	WATER	700	< 1	< 1	< 1
Hexachlorobutadiene	SW8260	WATER		< 1	< 1	< 1
Isopropylbenzene	SW8260	WATER		< 1	< 1	< 1
m,p-Xylene (Sum of Isomers)	SW8260	WATER		< 2	< 2	< 2
Methyl tert-butyl ether (MTBE)	SW8260	WATER		< 5	< 5	< 5
Methylene chloride	SW8260	WATER	5	< 5	< 5	< 5
n-Butylbenzene	SW8260	WATER		< 1	< 1	< 1
n-Propylbenzene	SW8260	WATER		< 1	< 1	< 1
sec-Butylbenzene	SW8260	WATER		< 1	< 1	< 1
Styrene	SW8260	WATER	100	< 1	< 1	< 1
tert-Butylbenzene	SW8260	WATER		< 1	< 1	< 1
Tetrachloroethene	SW8260	WATER	5	< 1	< 1	< 1
Toluene	SW8260	WATER	750	< 1	< 1	< 1
trans-1,2-Dichloroethene	SW8260	WATER	100	< 1	< 1	< 1
trans-1,3-Dichloropropene	SW8260	WATER		< 1	< 1	< 1
Trichloroethene	SW8260	WATER	5	< 1	< 1	< 1
Trichlorofluoromethane	SW8260	WATER		< 2	< 2	< 2
Vinyl chloride	SW8260	WATER	1	< 1	< 1	< 1
Xylene, o-	SW8260	WATER		< 1	< 1	< 1
Xylenes, Total	SW8260	WATER	620	< 3	< 3	< 3

Notes:

Bold indicates analyte was detected

Shading indicates analyte exceeded screening standards