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M E M O R A N D U M

TO: File

FROM: Sid Brandwein, Environmental Specialist, Permits Management Program

SUBJECT: Q2/CY2011 SPLIT-SAMPLING, KAFB BULK FUELS FACILITY SPILL

DATE: August 9, 2011

During the second quarter of 2011, NMED collected groundwater samples with the Shaw sampling team at twelve groundwater monitoring wells associated with the Kirtland Air Force Base Bulk Fuels Facility Spill. The wells sampled included: KAFB-1064, KAFB-10611, KAFB-10615, KAFB-10620, KAFB-10621, KAFB-10625, KAFB-10626, KAFB-10628, KAFB-106047, KAFB-106048, KAFB-106062, and KAFB-106064. The samples were collected between April 13 and May 26, 2011.

The water samples were sent to ALS's laboratory in Ft. Collins, CO, for analysis.

Analyses and methods included VOCs (8260), PAH-SVOCs (8270 SIMPAHD), GRO (8015), DRO (8015), EDB (8011), anions (300), alkalinity (310.1), ammonia as nitrogen (350.1), nitrate plus nitrite as nitrogen (353.2), sulfide (376.1), total metals (TAL -6010) and dissolved Fe and Mn (6010).

All laboratory results have been received.

Well Name		1064	10611	10615	10620	10621	10625	10626	10628	dup 10628	106047	106048	106062	106064	QC Blank
screen interval		w.t.	w.t.	w.t.	w.t.	w.t.	w.t.	w.t.	w.t.		intermediate	deep	deep	w.t.	
			2nd Quarter 2011 - NMED results												
benzene	ug/l	1 U	1 U	1 U	1 U	.63 J	1 U	1 U	770	770	1 U	1 U	1 U	30	1 U
toluene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1600	1600	.54 B, J	.55 B, J	1 U	110	1 U
GRO	mg/l	.1 U	.1 U	.1 U	.1 U	.11 Z	.1 U	.1 U	7.4 G	9 G	.1 U	.1 U	.1 U	.82 Z,G	.1 U
DRO	mg/l	.2 J	.19 J	.36 J,B	.5 U	.25 B,J	.45 B,J	.44 B,J	4.7 L	4.7 L	.56 B	.51 B	.34 B,J	.75 L,B	.4 B,J
EDB	ug/l	.016 U	.016 U	.017 U	.017 U	0.15	0.09	.018 U	25	27	.016 U	0.29	.017 U	1.3	.016 U
m, p xylenes	ug/l	1 U	1 U	1 U	1 U	1.3	1 U	1 U	810	760	.22 J	1 U	1 U	39	1 U
o xylenes	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	320	300	1 U	1 U	1 U	15	1 U
			1st Quarter 2011 - KAFB results												
benzene	ug/l	1 U	1 U	1 U	1 U	1.12	1 U	1 U	303						
toluene	ug/l	1 U	1 U	1 U	14 U	11.5	9.09 U	5.1	492						
GRO	mg/l	.150 U	.150 U	.150 U	.0642 J	0.333	.150 U	.150 U	4.12						
DRO	mg/l	.098 U	.098 U	.0943 U	0.0943 U	0.26	.0943 U	.0943 U	4.14						
EDB	ug/l	.0293 U	.0296 U	.0281 U,J	.0289 U	0.16	0.0656	.0299 U	10.3						
m,p xylenes	ug/l	2 U	2 U	2 U	2U	4.75	2 U	2 U	177						
o xylenes	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	I U	71.3						
Notes:															
B	This flag is used when the analyte is detected in the associated method blank as well as in the sample														
	It indicates probable blank contamination and warns the data user. This flag shall be used for a														
	tentatively identified compound (TIC) as well as for a positively identified target compound														
G	This flag indicates that a pattern resembling gasoline was detected in this sample														
J	This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for TICs where a 1:1 response is assumed														
	(2) when the mass spectral and retention time data indicate the presence of a compound that meets the														
	volatile and semivolatile GC/MS identification criteria, and the result is														
	less than the reporting limit (RL) but greater than the method detection limit (MDL)														
	(3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; an														
	(4) the reported value is estimated.														
L	This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest														
U	This flag indicates that the compound was analyzed for but not detected														
Z	This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbo														
	products: gasoline, JP-8, diesel, mineral spirits, motor oil, Stoddard solvent, Bunker C														

0 500 1,000 Feet

blue - existing and proposed monitoring wells
red - NMED split samples taken 2nd quarter 2011