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NAS FORT WORTH
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TECHNICAL MEMORANDUM FOR PRODUCT REMOVAL AT SITE ST14/SD13 WELLS NAS
FORT WORTH TX
8/8/1997
CH2M HILL



**NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 577

TECHNICAL MEMORANDUM

**Product Removal at Site ST14/SD13 Wells
NAS Fort Worth JRB, Carswell Field, Texas**

PREPARED FOR: Joseph Dunkle/AFCEE COR
PREPARED BY: CH2M HILL
COPIES: Margaret O'Hare/CH2M HILL
Molly Stuart/CH2M HILL
Katherine Swanson/CH2M HILL
DATE: August 8, 1997

The sixth and last of six monthly free-product removal events took place on August 8, 1997. Three wells (SD13-04, SD13-07 and 17M) were observed to contain product during the first quarter January 1997 base-wide quarterly groundwater sampling at NAS Fort Worth JRB. Although product thicknesses had decreased to below 0.01 feet at wells SD13-04 and 17M during the second quarter April 1997 groundwater sampling event and in each of the three wells during the fifth removal event conducted on July 2, these wells were measured during this sixth removal event to ensure the continued absence of product.

Product thickness was measured by lowering an ORS oil/water interface probe into the well and measuring the depth to product and the depth to water. If product was identified in the well, a skimming sock was lowered to just below the approximate depth of the bottom of product. The skimming sock was left in place for approximately five minutes to allow the product to be absorbed. The sock then was retrieved from the well and placed in a 55-gallon DOT-approved FRP drum provided by the Hazardous Waste Department at NAS Fort Worth JRB.

Product thickness in the well was re-checked after retrieval of the sock. If the product thickness exceeded 0.01 feet (the practical quantitation limit for the interface probe), a new skimming sock was to be lowered into the well to absorb any remaining product. The 55-gallon drum was transported by NAS to a staging area specified by the Hazardous Waste Department, who will dispose of the drum and contents.

Well SD13-04

An OVM reading of 126 ppm was recorded at the top of the casing. The well contained approximately 0.01 feet of product when measured with the interface probe. The probe was examined after removal from the well, and no visible product was observed. A slight petroleum hydrocarbon odor could be detected on the probe after removal.

Well SD13-07

An OVM reading of 182 ppm was recorded at the top of the casing. The well contained approximately 0.01 feet of product when measured with the interface probe. The probe was examined after removal from the well, and residual hydrocarbon was observed. A moderate petroleum hydrocarbon odor was detected from the well and the oil-water interface probe after extraction.

Well 17M

An OVM reading of 36 ppm was recorded at the top of the casing. The well did not contain any product when measured with the interface probe. The probe was examined after removal from the well, and no visible product was observed. A slight petroleum hydrocarbon odor was detected from the well, but no noticeable odor was emitted from the extracted oil-water interface probe.

Product Monitoring & Removal Summary Monitoring Wells 17M, SD13-07, SD13-04 NAS Fort Worth JRB, Carswell Field, Texas Feb-August 1997			
Well	Date	OVM Reading (ppm)	Product Thickness (ft.)
17M	2/27/97	197	0.02
	3/31/97	388	None Measured
	5/1/97	Not Measured*	Not measured*
	6/3/97	-	None Measured
	7/2/97	145	None Measured
	8/8/97	36	None Measured
SD 13-07	2/27/97	856	0.01
	3/31/97	140	0.05
	5/1/97	120	0.02
	6/3/97	-	0.02
	7/2/97	32	None Measured
	8/8/97	182	0.01
SD13-04	2/27/97	437	0.02
	3/31/97	35	0.01
	5/1/97	Not measured*	Not measured*
	6/3/97	80	None Measured
	7/2/97	12	None Measured
	8/8/97	126	0.01

"-" = OVM malfunction; no reading was taken

* because these wells did not contain product when they were checked during the April 1997 groundwater monitoring event, they were sampled during the monitoring event; subsequently, it was unnecessary to check these wells during the May 1, 1997 product monitoring event



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE TEXAS

File:
P.W. 17A-751 573
577 4

21 August 1997

MEMORANDUM FOR MARK WEEGAR (TNRCC)

FROM: HQ AFCEE/ERD
3207 North Road
Brooks AFB, TX 78235

SUBJECT: Naval Air Station Joint Reserve Base
Formerly Carswell AFB
TNRCC Solid Waste Registration No. 65004
EPA ID No. TX0571924042
Free-Product Removal

Dear Mr. Weegar,

This letter conveys the results of the last four monthly free-product monitoring events at NAS Ft. Worth JRB. Free-product levels were examined and removed from several wells in the vicinity of SWMU 67 at the request of Mr. Geoffrey Meyer, TNRCC I&HW. AFCEE agreed to monitor and remove any free-product found in wells in the area of SWMU 67 for a period of six months, at which point AFCEE would recommend further action to TNRCC.

The last six months of monitoring have shown that minimal amounts of free-product exist in wells in the vicinity of SWMU 67. No significant accumulation (over 0.01 feet) has occurred in any monthly period. Therefore AFCEE's recommendation is that these wells be monitored on a quarterly basis coincident with the Groundwater Sampling and Analysis Program. AFCEE will implement further monitoring and free-product removal on a quarterly basis beginning in October unless otherwise notified by your office.

Should you have any questions regarding this letter, please contact me at (210) 536-5290.



Sincerely,



Joseph R. Dunkle
Remedial Program Manager
NAS Ft. Worth JRB

CC:

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Brooks AFB TX 78235

TNRCC Region 4 (Mr. Sewell)
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NAS Ft. Worth JRB (Cmdr LeMonde)
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NAS Ft. Worth JRB TX 76127-6200

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Fort Worth TX 76114

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