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QUARTERLY GROUNDWATER MONITORING COMPREHENSIVE SAMPLING ROUND LETTER REPORT FOR AIR FORCE PLANT 4 NAS FORT WORTH TX

8/1/1993

HARDING LAWSON ASSOCIATES

File: 17G
A.F.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 213

A.F. 17A-53

213

05G10300

INSTALLATION RESTORATION PROGRAM (IRP) QUARTERLY GROUNDWATER MONITORING COMPREHENSIVE SAMPLING ROUND LETTER REPORT

AIR FORCE PLANT 4
FORT WORTH, TEXAS

JACOBS ENGINEERING GROUP INC.
600 17TH STREET, STE. 1100N
DENVER, COLORADO 80202

AUGUST 1993

PREPARED FOR

Aeronautical Systems Center - ASC/EMVR
Wright Patterson Air Force Base, Ohio 45433-6503

UNITED STATES AIR FORCE
AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE (AFCEE)
ENVIRONMENTAL RESTORATION DIVISION (ESR)
BROOKS AIR FORCE BASE, TEXAS 78235-5000

JE

in association with:

HARDING LAWSON ASSOCIATES

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1.0 BACKGROUND

In March 1991, the Environmental Systems Division of Jacobs Engineering Group Inc. (Jacobs) was contracted under Delivery Order 3, contract number F33615-90-D-4009, to perform eight rounds of quarterly groundwater monitoring activities at Air Force Plant 4 (AFP4), Fort Worth, Texas. These activities are being conducted to aid in the implementation of a final remedial action plan under the Air Force Installation Restoration Program (IRP).

In December 1992, the Statement of Work was modified to include the addition of a one-time sampling of each accessible well within the confines of AFP4, as well as 20 residential and municipal wells and those wells and surface sites necessary for the delineation of the trichloroethene (TCE) plume on the east side of the plant. Subsequent discussions with the Technical Project Manager led to the elimination of the requirement to sample residential wells and the addition of wells on Carswell Air Force Base (AFB). In all, 270 locations were to be sampled during this additional round.

The objectives of the groundwater sampling program at AFP4 are: 1) to monitor changes in groundwater quality over time in the Upper Zone and Paluxy aquifers; 2) to monitor and map contaminant plumes; 3) to assess the potential for movement of plumes across Air Force facility boundaries; 4) to monitor changes in water levels; 5) to check for and monitor free product thicknesses in wells where it occurs; 6) to monitor off-site water quality by collecting groundwater samples from municipal water supply wells, and surface water samples from streams and outfalls; and 7) to try to detect possible contaminants entering surface waters as seeps from the Upper Zone. An additional objective of the one-time sampling round at AFP4 is to develop a baseline of contaminant concentrations in all accessible wells on AFP4 at a single point in time.

This letter report discusses sampling activities and analytical results from the one-time sampling round conducted over a six-week period in May and June 1993. This event occurred following the Round 6 quarterly sampling conducted in January 1993 and is referred to hereafter as the Round 7. The two remaining rounds of quarterly sampling will be conducted in October 1993 (Round 8) and January 1994 (Round 9).

2.0 SUMMARY OF SAMPLING ACTIVITIES

Round 7 sampling was conducted between 03 May and 15 June 1993. During this period, a total of 247 groundwater monitoring wells, 7 water production wells, and 8 surface water sites were sampled on AFP4 property, Carswell AFB, and in the City of White Settlement (Plate 1).

Table 1 summarizes sampling information, including sample location/well name, purging and sampling device, depth to water, depth to well bottom, total purge volume, field parameters, and the presence or absence of free product.

2.1 SAMPLING PROCEDURES

Groundwater and surface water sampling procedures that were employed are described in detail in the April 1992 Sampling and Analysis Plan (Jacobs, 1992b). In general, the groundwater sampling procedure was carried out in the following order:

1) The breathing zone and wellhead area were checked for levels of total organic vapors using a portable HNu Photoionization Detector.

2) Water level and depth and thickness of free product were measured using an interface probe.

3) Total depth of the well was sounded using the interface probe.

4) Purge water volume was calculated based on water level, casing depth, and casing diameter.

5) Water was purged from the well until either the well purged dry, or a total of three well casing volumes were removed, whichever occurred first. Purge water was collected in 250-gallon tanks and transferred to either a settling tank or a frac tank at the AFP4 French Drain treatment system. The purge water was subsequently transferred into the treatment system under the supervision of Lockheed DPRO employee Jay Johnson.

6) Field parameter measurements (pH, conductivity, and temperature) were made after each casing volume had been purged.

7) Environmental samples, ambient condition blanks, and duplicate samples were collected, as necessary, labeled, and stored immediately in coolers.

8) Sampling equipment was decontaminated.

9) An equipment rinsate blank was collected by each of the two sampling teams during each sampling day.

10) Chain-of-custody forms were completed and samples were packaged in coolers for shipment to the analytical laboratory.

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS													
DOCK-17	05-May-93	4.21	43.67	57.9	96	58.0	20.2	0.812	6.64	BROWN	MODERATE	NONE	
	06-May-93					38.0							PURGED DRY
T						0.0	20.6	1.009	6.78	COLORLESS	LOW	NONE	AT SAMPLE COLLECTION 5/6/93
F-200	14-May-93	14.71	27.95	7.6	22.8	7.6	22.9	0.548	6.87	WHITE	MODERATE	NONE	
						7.6	22.6	0.781	6.87	COLORLESS	LOW	SULFUR	
T						7.6	22.6	0.781	6.84	COLORLESS	LOW	SULFUR/FUEL	PURGED DRY
F-203	13-Jun-93	22.87	29.65	4.4	13.5	4.5	22.7	0.837	6.61	COLORLESS	VERY LOW	FUEL	PRODUCT @ 19.91'-22.87'
						4.5	22.4	0.813	6.57	COLORLESS	VERY LOW	FUEL	
T						4.5	22.6	0.820	6.60	COLORLESS	VERY LOW	FUEL	
F-204	14-Jun-93	19.76	25.12	3.5	10.5	3.5	24.8	0.646	7.15	COLORLESS	LOW	FUEL	LIGHT SHEEN
						3.5	24.5	0.567	7.10	COLORLESS	LOW	FUEL	HEAVY SHEEN
B						3.5	24.5	0.546	6.90	COLORLESS	LOW	FUEL	SHEEN
F-207	09-Jun-93	23.91	34.28	6.8	21	7.0	23.0	1.007	6.71	COLORLESS	LOW	NONE	
						7.0	23.0	0.921	6.80	COLORLESS	LOW	NONE	
T						7.0	22.8	0.920	6.76	COLORLESS	LOW	NONE	
F-208	13-May-93	12.48	20.75	5.4	16	6.0	19.0	0.505	7.75	COLORLESS	LOW	NONE	
						6.0	19.1	0.453	7.50	COLORLESS	LOW	NONE	
T						6.0	19.1	0.453	7.24	COLORLESS	LOW	NONE	PURGED DRY
F-209	11-Jun-93	14.29	17.29	2.0	6	2.0	20.5	0.663	6.62	COLORLESS	LOW	FUEL	HEAVY SHEEN
						2.0	20.5	0.630	6.65	COLORLESS	LOW	FUEL	HEAVY SHEEN
B						2.0	20.2	0.671	6.61	COLORLESS	LOW	FUEL	HEAVY SHEEN
F-211	11-Jun-93	22.66	33.75	7.2	22.5	7.5	22.5	0.878	6.64	WHITE	MODERATE	NONE	
						7.5	22.6	0.853	6.88	WHITE	MODERATE	NONE	
T						7.5	22.7	0.849	6.89	WHITE	MODERATE	NONE	
F-212	13-May-93	12.44	24.90	8.1	12	8.0	21.7	1.973	6.71	COLORLESS	LOW	NONE	
G						4.0	22.9	2.453	6.62	COLORLESS	LOW	NONE	PURGED DRY
F-213	09-May-93	5.55	11.42	3.8	5	4.0	19.3	1.584	6.68	BROWN	LOW	NONE	
B	10-May-93					1.0							PURGED DRY
F-214	14-Jun-93	15.46	21.77	4.1	12	4.0	19.0	2.691	6.38	GREY	HIGH	SWEET	
						4.0	18.8	2.682	6.35	GREY	VERY HIGH	SWEET	
B						4.0	19.1	2.633	6.41	GREY	VERY HIGH	SWEET	
F-215	09-Jun-93	20.58	33.45	8.4	25.5	8.5	22.8	0.930	6.89	LIGHT GREY	MODERATE	NONE	
						8.5	22.7	0.925	6.88	LIGHT GREY	MODERATE	NONE	
T						8.5	22.7	0.925	6.91	LIGHT GREY	MODERATE	NONE	
F-216	08-Jun-93	14.41	25.77	7.4	22.5	7.5	22.8	2.633	6.61	WHITE	HIGH	NONE	
						7.5	23.1	2.495	6.54	WHITE	HIGH	NONE	
T						7.5	22.3	2.544	6.65	WHITE	HIGH	NONE	PURGED DRY
F-217	08-Jun-93	8.28	18.45	6.6	20	6.5	23.2	2.047	7.53	COLORLESS	LOW	DEGRADED FUEL	SLIGHT SHEEN
						6.5	22.9	1.535	7.12	COLORLESS	LOW	DEGRADED FUEL	SLIGHT SHEEN
T						7.0	22.9	1.378	6.85	COLORLESS	LOW	DEGRADED FUEL	SLIGHT SHEEN, PURGED DRY
F-218	13-Jun-93	24.00	32.12	5.3	17	5.5	24.0	0.724	6.88	LIGHT TAN	VERY LOW	SOLVENT	EFFERVESCENT (FOAMY)
						5.5	24.0	0.717	6.99	LIGHT TAN	LOW	SOLVENT	EFFERVESCENT
B						6.0	24.0	0.718	7.04	LIGHT TAN	NONE	SOLVENT	EFFERVESCENT
F-219	10-May-93	14.86	33.90	12.4	28.5	12.5	26.6	2.006	6.78	COLORLESS	NONE	NONE	
						12.5	25.4	2.395	6.75	COLORLESS	VERY LOW	NONE	
G						3.5							PURGED DRY

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AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
F-220	03-Jun-93	28.50	33.23	3.1	12	3.0	22.1	11.420	6.58	YELLOW BROWN	LOW	FUEL	FOAMY
						3.0	21.5	11.232	6.84	YELLOW BROWN	LOW	MILDEW	FOAMY
						3.0	21.5	10.446	7.37	YELLOW BROWN	LOW	MOLDY	FOAMY
B						3.0	21.6	10.179	7.03	YELLOW BROWN	LOW	MOLDY	FOAMY, PURGED DRY
F-221	20-May-93	13.73	20.75	4.6	13.5	4.5	22.2	0.405	6.91	GREY	MODERATE	NONE	
						4.5	22.3	0.837	6.95	COLORLESS	VERY LOW	NONE	
B						4.5	22.3	0.863	6.92	COLORLESS	VERY LOW	NONE	
FSA3-1	08-Jun-93	14.17	19.77	3.7	10.5	3.5	20.1	0.780	6.64	REDDISH BROWN	LOW	NONE	
						3.5	20.1	0.766	6.70	REDDISH TAN	LOW	NONE	
B						3.5	20.1	0.774	6.00	REDDISH BROWN	VERY LOW	NONE	
FSA3-2	13-Jun-93	14.37	20.08	3.7	8	4.0	20.3	0.783	6.56	TAN	LOW	FUEL	PRODUCT @ 12.49' - 14.37'
B						4.0	20.6	0.769	6.77	TAN	LOW	FUEL	PURGED DRY
FSA3-3	07-Jun-93	7.46	17.72	6.7	10	6.5	20.5	1.539	7.40	LIGHT TAN	LOW	FUEL	
						3.5	20.8	1.637	7.32	TAN	MODERATE	FUEL	PURGED DRY
B	08-Jun-93					0.0	19.6	1.669	7.62	TAN	LOW	FUEL	AT SAMPLE COLLECTION 6/8/93
FSA3-4	07-Jun-93	5.62	14.53	5.8	9.5	6.0	20.0	1.379	6.91	DARK GREY	MODERATE	NONE	
						3.5	20.0	1.459	7.24	TAN	MODERATE	NONE	PURGED DRY
B	08-Jun-93					0.0	20.0	0.792	7.15	TAN	LOW	FUEL	AT SAMPLE COLLECTION 6/8/93
FSA3-6	08-Jun-93	6.96	13.04	4.0	12	4.0	20.2	0.812	6.82	BLACK	VERY HIGH	FUEL	SHEEN
						4.0	20.0	0.806	6.87	TAN	MODERATE	FUEL	
B						4.0	14.7	0.773	6.92	TAN	MODERATE	FUEL	PURGED DRY
FSA3-7	08-Jun-93	11.34	16.64	3.5	10.5	3.5	20.9	0.789	6.71	RUST	LOW	FUEL	SHEEN
						3.5	20.3	0.773	6.64	REDDISH GREY	MODERATE	FUEL	SHEEN
B						3.5	21.0	0.773	6.66	REDDISH GREY	LOW	FUEL	SHEEN
FSA3-8	07-Jun-93	8.09	13.50	3.5	10.5	3.5	20.3	0.779	6.86	BLACK	HIGH	NONE	
						3.5	20.3	0.734	6.81	DARK GREY	HIGH	NONE	
B						3.5	20.0	0.737	6.83	GREY BROWN	HIGH	NONE	
FSA3-10	09-Jun-93	14.08	19.70	3.7	10.5	3.5	19.3	0.783	6.63	TAN	LOW	FUEL	
						3.5	19.5	0.768	6.70	REDDISH TAN	MODERATE	FUEL	
B						3.5	19.2	0.765	6.72	TAN	LOW	FUEL	
FSA3-12	06-Jun-93	14.55	18.82	2.8	9	3.0	21.8	0.706	6.69	TAN	MODERATE	FUEL	
						3.0	21.1	0.661	6.84	TAN	MODERATE	FUEL	
B						3.0	21.5	0.668	6.84	TAN	MODERATE	FUEL	
FSA3-14	06-Jun-93	4.78	9.44	3.0	5	3.0	23.5	0.759	7.01	DARK GREY	HIGH	FUEL	
						2.0	0.0	0.000	0.00				PURGED DRY
B						0.0	23.5	0.747	7.09	TAN	LOW	FUEL	AT SAMPLE COLLECTION 3 HRS. LATER
FSA3-15	06-Jun-93	5.11	9.31	2.7	4	2.7	23.9	0.976	7.00	BLACK-GREY	HIGH	FUEL	
						1.3	0.0	0.000	0.00				PURGED DRY
B	07-Jun-93					0.0	22.3	0.932	7.01	TAN	LOW	FUEL	AT SAMPLE COLLECTION 6/7/93
FSA3-16	08-Jun-93	4.89	9.19	2.8	4	3.0	22.4	0.859	6.90	TAN	HIGH	FUEL	
						1.0	0.0	0.000	0.00				PURGED DRY
B	09-Jun-93					0.0	21.4	0.838	6.88	TAN	MODERATE	FUEL	AT SAMPLE COLLECTION 6/9/93
FSA3-17	08-Jun-93	6.23	9.44	2.1	3	2.0	22.3	1.071	6.89	TAN	MODERATE	NONE	
						1.0	0.0	0.000	0.00				PURGED DRY
B	09-Jun-93					0.0	21.5	1.131	7.09	TAN	LOW	NONE	AT SAMPLE COLLECTION 6/9/93

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AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
FT08-11A	19-May-93	11.35	17.60	1.0	3	1.0	18.7	0.890	6.74	TAN	HIGH	NONE	
						1.0	18.2	0.882	6.76	TAN	HIGH	NONE	
B						1.0	18.8	0.885	6.78	TAN	HIGH	NONE	
FT08-11B	19-May-93	8.28	17.09	1.4	4.2	1.4	20.3	1.246	6.48	ORANGE	HIGH	DIESEL	
						1.4	19.3	1.258	6.47	ORANGE	HIGH	DIESEL	
B						1.4	20.3	1.213	6.46	ORANGE	HIGH	DIESEL	
FT09-12A	19-May-93	16.75	27.78	1.8	5.4	1.8	19.2	0.623	6.83	TAN	HIGH	NONE	
						1.8	19.2	0.619	6.83	TAN	HIGH	NONE	
B						1.8	19.6	0.622	6.84	TAN	HIGH	NONE	
FT09-12B	19-May-93	26.46	37.70	1.5	4.5	1.5	21.0	0.753	6.67	COLORLESS	LOW	NONE	
						1.5	21.0	0.757	6.66	COLORLESS	LOW	NONE	
B						1.5	21.0	0.754	6.66	COLORLESS	LOW	NONE	
HM-2	11-May-93	21.77	35.34	8.9	27	9.0	20.2	0.719	6.76	COLORLESS	NONE	NONE	
						9.0	20.0	0.735	6.79	COLORLESS	NONE	NONE	
G						9.0	20.0	0.729	6.79	COLORLESS	NONE	NONE	
HM-5	06-May-93	11.15	33.50	14.6	29.2	14.6	19.8	1.194	6.85	LIGHT GREY	LOW	NONE	
T						14.6	19.8	1.209	6.76	LIGHT GREY	HIGH	NONE	PURGED DRY
HM-7	08-Jun-93	8.37	14.12	3.8	11	4.0	21.6	0.994	6.64	DARK GREY	HIGH	STRONG FUEL	
						4.0	21.8	0.974	6.69	DARK GREY	HIGH	STRONG FUEL	
B						3.0	22.3	0.975	6.88	DARK GREY	HIGH	STRONG FUEL	PURGED DRY
HM-8	08-May-93	31.62	45.00	12.3	49.2	12.3	22.4	0.367	6.94	COLORLESS	VERY LOW	NONE	
						12.3	22.3	0.651	6.92	COLORLESS	NONE	NONE	
						12.3	21.8	0.645	6.91	COLORLESS	NONE	NONE	
G						12.3	22.2	0.654	6.94	COLORLESS	NONE	NONE	
HM-9	08-May-93	3.56	7.00	2.2	6.9	2.3	21.6	2.531	6.68	LIGHT BROWN	LOW	NONE	
						2.3	19.2	2.793	6.60	GREY-BROWN	MODERATE	NONE	
B						2.3	18.8	2.846	6.62	GREY-BROWN	MODERATE	NONE	
HM-10	08-Jun-93	10.63	20.57	6.5	19	9.0	22.9	1.531	6.89	YELLOW BROWN	MODERATE	NONE	
						3.5	22.5	1.647	6.86	LT. YELLOW BROWN	MODERATE	NONE	
T						6.5	22.8	1.611	6.80	LT. YELLOW BROWN	MODERATE	NONE	
HM-11	27-May-93	10.59	34.51	15.6	42.6	15.8	22.0	0.702	6.23	COLORLESS	NONE	NONE	
						15.8	22.4	0.718	7.11	COLORLESS	NONE	NONE	
T						11.0	22.3	0.725	7.27	COLORLESS	NONE	NONE	PURGED DRY
HM-12	18-May-93	11.57	33.28	14.2	34	15.0	21.9	1.332	6.94	COLORLESS	NONE	NONE	
						15.0	22.4	2.260	7.29	COLORLESS	NONE	NONE	
T						4.0							PURGED DRY
HM-13	05-May-93	22.17	30.15	5.2	15.6	5.2	20.8	0.655	6.98	LIGHT GREY	VERY LOW	NONE	
						5.2	20.8	0.648	6.99	LIGHT GREY	VERY LOW	NONE	
B						5.2	20.7	0.660	6.99	LIGHT GREY	VERY LOW	NONE	
HM-14	04-May-93	26.44	38.38	7.8	23.4	7.8	21.7	0.925	6.76	COLORLESS	VERY LOW	NONE	
						7.8	21.5	0.936	6.75	COLORLESS	NONE	NONE	
G						7.8	21.7	0.916	6.75	COLORLESS	VERY LOW	NONE	
HM-15	02-Jun-93	29.35	32.62	2.1	3	2.5	21.9	0.608	7.25	TAN	MODERATE	NONE	
						0.5							PURGED DRY
B	03-Jun-93					0.0	22.5	0.581	6.80				AT SAMPLE COLLECTION 6/3/93

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-16	02-Jun-93	24.16	43.68	12.7	13	12.7	22.6	0.666	7.04	DARK GREY	HIGH	SEPTIC	
						0.3							PURGED DRY
T	03-Jun-93					0.0	23.0	0.676	6.83	COLORLESS	LOW	SEPTIC	AT SAMPLE COLLECTION 6/3/93
HM-17	27-May-93	15.88	35.96	13.1	18	13.5	22.1	0.622	6.89	COLORLESS	NONE	NONE	
						4.5	22.4	0.593	7.11	COLORLESS	MODERATE	NONE	PURGED DRY
T						0.0	23.6	0.588	6.96	COLORLESS	MODERATE	NONE	AT SAMPLE COLLECTION 6 HRS. LATER
HM-18	09-May-93	20.10	36.00	9.1	30	10.0	23.1	1.129	6.77	V. LIGHT BROWN	VERY LOW	NONE	
						10.0	22.3	1.153	6.69	V. LIGHT BROWN	VERY LOW	NONE	
T						10.0	22.5	1.155	6.70	V. LIGHT BROWN	VERY LOW	NONE	
HM-19	09-May-93	9.92	24.00	8.1	30	10.0	21.5	2.118	6.54	COLORLESS	NONE	NONE	
			*			10.0	21.4	2.118	6.56	COLORLESS	NONE	NONE	
G						10.0	21.6	2.099	6.55	COLORLESS	NONE	NONE	
HM-20	23-May-93	19.12	32.04	8.4	25.5	8.5	22.7	1.102	7.03	COLORLESS	NONE	NONE	
						8.5	22.8	1.099	7.01	COLORLESS	NONE	NONE	
G						8.5	22.8	1.103	7.02	COLORLESS	NONE	NONE	
HM-21	08-Jun-93	6.82	15.70	5.8	15	5.8	19.9	1.658	7.03	WHITE	LOW	SLIGHT FUEL	
						5.2	19.7	1.639	6.65	WHITE	LOW	SLIGHT FUEL	
						4.0	19.8	1.650	6.66	WHITE	LOW	SLIGHT FUEL	PURGED DRY
B						0.0	22.2	1.680	6.60				AT SAMPLE COLLECTION 3 HRS. LATER
HM-22	03-May-93	16.09	52.62	23.8	46	24.0	21.2	1.020	7.18	V. LT GREY-BROWN	LOW	NONE	
T	12-May-93					22.0	21.1	0.977	7.21	LIGHT BROWN	MODERATE	NONE	PURGED DRY
HM-23	04-May-93	31.74	47.55	10.3	30.9	10.3	21.5	0.792	6.76	LIGHT GREY	LOW	NONE	
						10.3	21.4	0.787	6.72	COLORLESS	VERY LOW	NONE	
G						10.3	21.4	0.788	6.72	COLORLESS	VERY LOW	NONE	
HM-24	05-May-93	14.17	41.60	17.9	51	18.0	21.1	2.246	6.57	COLORLESS	NONE	NONE	
						18.0	21.3	2.490	6.56	COLORLESS	NONE	NONE	
G	06-May-93					15.0							PURGED DRY
HM-25	13-Jun-93	16.21	38.60	14.6	35	15.0	23.3	0.776	6.53	LIGHT GREY	LOW	DEGRADED FUEL	SHEEN
						15.0	23.2	0.729	6.64	LIGHT GREY	MODERATE	DEGRADED FUEL	SHEEN
T						5.0							PURGED DRY
HM-26	07-Jun-93	4.37	17.77	8.7	26.3	8.8	21.3	2.723	6.62	COLORLESS	LOW	NONE	
						8.8	21.4	2.731	6.58	COLORLESS	LOW	NONE	
T						8.7	21.7	2.731	6.58	COLORLESS	LOW	NONE	
HM-27	08-Jun-93	4.06	16.38	8.0	24	8.0	19.8	2.512	6.72	WHITE	LOW	NONE	SLIGHT SHEEN
						8.0	19.5	2.493	6.57	WHITE	LOW	NONE	SLIGHT SHEEN
T						8.0	19.4	2.484	6.54	WHITE	LOW	NONE	SLIGHT SHEEN
HM-28	14-Jun-93	23.39	42.50	12.5	37.5	12.5	21.5	0.692	6.52	COLORLESS	LOW	SLIGHTLY SWEET	
						12.5	21.2	0.657	6.66	COLORLESS	VERY LOW	SLIGHTLY SWEET	
T						12.5	21.2	0.653	6.64	COLORLESS	VERY LOW	SLIGHTLY SWEET	
HM-29	23-May-93	25.26	44.14	12.3	37.5	12.5	23.1	0.952	7.15	COLORLESS	NONE	NONE	
						12.5	23.1	0.957	7.17	COLORLESS	NONE	NONE	
G						12.5	23.1	0.958	7.13	COLORLESS	NONE	NONE	
HM-30	02-Jun-93	30.99	51.96	13.7	40.5	13.5	21.2	0.657	7.04	COLORLESS	NONE	NONE	
						13.5	21.3	0.655	7.13	COLORLESS	NONE	NONE	
T						13.5	21.4	0.666	7.20	COLORLESS	NONE	NONE	

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AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-31	05-Jun-93	11.25	39.01	18.1	54	18.0	23.5	0.963	7.37	COLORLESS	LOW	NONE	
						18.0	23.3	0.969	7.01	COLORLESS	LOW	NONE	
T						20.0	23.2	1.255	7.01	COLORLESS	LOW	NONE	PURGED DRY
HM-32	06-May-93	28.42	45.80	11.3	34	11.0	21.2	0.751	6.92	COLORLESS	NONE	NONE	
						12.0	21.0	0.645	7.00	COLORLESS	NONE	NONE	
G						11.0	21.0	0.747	7.02	COLORLESS	NONE	NONE	
HM-33	06-May-93	15.83	27.00	1.8	4.5	1.5	20.1	0.814	6.88	GREY-BROWN	HIGH	NONE	
						1.5	20.2	0.798	6.91	GREY-BROWN	HIGH	NONE	
B						1.5	20.3	0.798	6.90	GREY-BROWN	HIGH	NONE	
HM-34	12-May-93	6.65	22.41	2.2	6	2.0	18.7	0.841	6.00	BROWN	VERY LOW	NONE	
						2.0		0.815	6.95	BROWN	VERY LOW	NONE	
B						2.0		0.812	6.94	BROWN	VERY LOW	NONE	
HM-35	12-May-93	6.02	20.78	2.1	6	2.0	19.0	1.354	6.70	GREY	LOW	NONE	
						2.0	18.7	1.318	6.70	BROWN-GREY	MODERATE	NONE	
B						2.0	18.6	1.283	6.70	BROWN-GREY	MODERATE	NONE	
HM-36	06-May-93	6.24	15.80	1.6	5.1	1.6	18.5	1.891	6.56	LIGHT BROWN	HIGH	NONE	
						1.9	18.3	1.793	6.53	LIGHT BROWN	HIGH	NONE	
B						1.6	18.4	1.784	6.55	LIGHT BROWN	HIGH	NONE	
HM-37	07-Jun-93	3.00	10.50	1.2	4.5	1.5	20.5	2.344	6.65	DARK GREY	HIGH	SLIGHT	SHEEN
		*	*			1.5	20.6	2.324	6.61	DARK GREY	HIGH	SLIGHT	SHEEN
T						1.5	20.5	2.334	6.62	DARK GREY	HIGH	SLIGHT	SHEEN
HM-38	14-Jun-93	20.14	21.98	0.3	0.3	0.3							PRODUCT 20.11'-20.14
B	15-Jun-93												PURGED DRY
HM-39	11-May-93	8.80	16.58	1.3	3.6	1.2	18.0	3.040	6.58	DARK GREY	HIGH	NONE	
						1.2	18.0	3.060	6.51	DARK GREY	HIGH	NONE	
B						1.2	17.8	2.900	6.50	DARK GREY	VERY HIGH	NONE	
HM-40	04-May-93	30.90	44.86	2.3	6.9	2.3	21.6	0.703	6.92	LIGHT BROWN	HIGH	NONE	
						2.3	21.3	0.695	6.88	LIGHT BROWN	HIGH	NONE	
B						2.3	21.2	0.693	6.90	LIGHT BROWN	MODERATE	NONE	
HM-41	05-May-93	30.15	45.54	2.5	7.5	2.5	21.5	0.662	6.99	COLORLESS	LOW	NONE	
						2.5	21.1	0.659	6.98	COLORLESS	LOW	NONE	
B						2.5	21.3	0.659	6.99	COLORLESS	NONE	NONE	
HM-42	04-May-93	26.78	46.07	3.1	9.3	3.1	21.1	0.576	7.02	LIGHT BROWN	HIGH	NONE	
						3.1	21.1	0.557	7.00	LT. BROWN-GREY	MOD-HIGH	NONE	
B						3.1	21.0	0.566	6.99	LIGHT BROWN	MODERATE	NONE	
HM-43	04-May-93	16.86	23.85	1.1	3.3	1.1	18.5	0.557	6.98	LIGHT GREY	LOW	NONE	
						1.1	18.4	0.552	6.98	LIGHT GREY	MODERATE	NONE	
B						1.1	18.4	0.551	7.01	LIGHT GREY	MOD-HIGH	NONE	
HM-44	04-May-93	25.88	30.03	0.7	2.1	0.7	21.4	0.561	7.22	COLORLESS	VERY LOW	NONE	
						0.7	21.4	0.566	7.23	LIGHT BROWN	VERY LOW	NONE	
B						0.7	21.5	0.552	7.22	LIGHT BROWN	VERY LOW	NONE	
HM-46	05-May-93	22.66	33.80	1.8	5.4	1.8	20.5	0.661	6.95	LIGHT BROWN	HIGH	NONE	
						1.8	20.5	0.692	6.99	LIGHT BROWN	HIGH	NONE	
B						1.8	21.1	0.684	6.99	LIGHT BROWN	HIGH	NONE	

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TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-47	27-May-93	19.04	26.12	4.6	14.3	4.7	21.9	0.761	6.74	COLORLESS	NONE	SLIGHT SOLVENT	
						4.8	21.3	0.763	6.78	COLORLESS	NONE	SLIGHT SOLVENT	
T						4.8	21.4	0.761	6.87	COLORLESS	NONE	SLIGHT SOLVENT	
HM-48	07-May-93	10.65	27.28	10.7	32.1	10.7	19.6	0.562	7.53	COLORLESS	LOW	NONE	
						10.7	19.9	0.527	7.52	COLORLESS	LOW	NONE	
B						10.7	19.1	0.526	7.52	COLORLESS	LOW	NONE	
HM-49	09-May-93	5.48	10.75	0.9	3	1.0	19.1	1.378	6.66	LT. YELLOW	LOW	NONE	
						1.0	19.1	1.291	6.64	LT. BROWN-YELLOW	LOW	NONE	
B						1.0	19.1	1.265	6.66	LT. BROWN-YELLOW	LOW	NONE	
HM-50	13-May-93	6.57	14.00	1.2	4	1.5	19.8	2.490	6.51	TAN	LOW	NONE	FOAMY
						1.5	20.1	2.410	6.50	TAN	LOW	NONE	
T	14-May-93		*			1.0							PURGED DRY
HM-51	06-Jun-93	7.30	18.03	7.0	12.5	7.0	22.4	1.331	6.90	GREY	HIGH	V. STRONG SEPTIC	FOAMY
T						5.5	22.2	5.735	6.70	GREY	HIGH	VERY STRONG	PURGED DRY
HM-52	07-May-93	14.40	23.22	5.8	10	5.8	22.9	0.475	7.51	COLORLESS	LOW	NONE	
T						4.2	23.0	0.496	7.42	COLORLESS	LOW	NONE	
HM-53	11-Jun-93	20.56	36.10	10.1	30.3	10.1	22.6	0.798	6.30	COLORLESS	LOW	FUEL	
						10.1	22.4	0.790	6.47	COLORLESS	LOW	FUEL	
T						10.1	22.3	0.789	6.50	COLORLESS	LOW	FUEL	
HM-54	18-May-93	11.66	25.28	8.9	36	9.0	23.0	0.486	7.29	DK. GREY-BROWN	LOW	NONE	
						9.0	24.5	0.538	7.30	COLORLESS	NONE	NONE	
						9.0	26.1	0.546	7.28	COLORLESS	NONE	NONE	
G						9.0	26.2	0.551	7.33	COLORLESS	NONE	NONE	
HM-55	13-May-93	19.75	32.60	2.1	6.3	2.1	23.4	0.739	6.87	TAN	HIGH	NONE	
						2.1	23.7	0.697	6.84	TAN	HIGH	NONE	
T			*			2.1	22.9	0.699	6.91	TAN	HIGH	NONE	
HM-56	27-May-93	23.00	40.00	2.8	8.6	2.8	23.0	1.217	6.48	GREY-GREEN	HIGH	STRONG FUEL	
		*	*			2.8	22.8	1.191	6.51	GREY-GREEN	HIGH	STRONG FUEL	SHEEN
T						3.0	22.8	1.194	6.55	GREY	MOD-HIGH	STRONG FUEL	SHEEN
HM-57	14-May-93	11.14	28.24	2.8	9	3.0	22.2	0.646	7.33	COLORLESS	VERY LOW	NONE	
						3.0	22.3	0.645	7.26	COLORLESS	VERY LOW	NONE	
B						3.0	22.3	0.660	7.22	COLORLESS	VERY LOW	NONE	
HM-58	18-May-93	9.71	27.41	2.9	9	3.0	21.1	0.722	7.31	ORANGE	MODERATE	NONE	
						3.0	20.6	0.831	7.27	ORANGE-BROWN	MODERATE	NONE	
B						3.0	20.9	0.817	7.14	ORANGE-BROWN	MODERATE	NONE	
HM-59	17-May-93	10.00	38.00	4.6	15	5.0	23.2	1.240	6.89	TAN	HIGH	NONE	
		*	*			5.0	23.1	1.372	7.01	TAN	HIGH	NONE	
T						5.0	22.9	1.516	6.95	TAN	HIGH	NONE	
HM-60	07-Jun-93	20.61	36.71	2.6	7.5	2.5	21.0	0.643	6.95	COLORLESS	LOW	NONE	
						2.5	21.0	0.646	6.97	COLORLESS	LOW	NONE	
B						2.5	21.3	0.641	6.98	COLORLESS	LOW	NONE	
HM-61	10-May-93	8.92	24.54	2.5	7.5	2.5	22.7	0.689	6.85	GREY	MODERATE	NONE	
						2.5	21.7	0.742	6.82	BROWN-GREY	MODERATE	NONE	
B						2.5	22.2	0.731	6.82				

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AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-62	09-May-93	22.76	39.00	2.6	5	2.0	22.3	0.901	6.82	TAN	MODERATE	NONE	
			*			1.5	22.4	0.963	6.78	TAN	MODERATE	NONE	
T						1.5	22.4	0.961	6.77	TAN	MODERATE	NONE	
HM-63	07-Jun-93	22.80	40.00	2.8	8	6.0	22.0	0.998	6.42	RUST	HIGH	NONE	
T		*	*			2.0	21.9	0.989	6.46	RUST	HIGH	SLIGHT FUEL	
HM-64	08-May-93	21.20	32.00	1.8	5.1	1.7	20.5	0.980	7.03	TAN	HIGH	NONE	
						1.7	20.5	0.959	7.08	TAN	HIGH	NONE	
B						1.7	20.7	0.975	7.09	TAN	HIGH	NONE	
HM-65	09-May-93	6.32	15.24	5.8	6.3	5.8	20.6	3.200	6.44	LIGHT GREY	LOW	NONE	
T						0.5							PURGED DRY
HM-66	09-May-93	4.04	19.96	10.4	12	10.0	20.3	1.182	6.70	LIGHT BROWN	LOW	NONE	
B						2.0	20.9	1.125	6.92	LIGHT BROWN	LOW	NONE	PURGED DRY
HM-68	25-May-93	21.88	35.08	8.6	25.8	8.6	22.2	0.718	6.47	TAN	HIGH	NONE	
						8.6	22.4	0.729	6.90	TAN	HIGH	NONE	
G						8.6	24.0	0.748	6.99	GREY	MOD-HIGH	NONE	
HM-69	14-May-93	13.75	36.59	13.1	24.1	13.1	22.9	0.522	6.98	COLORLESS	VERY LOW	NONE	
						10.0	24.2	0.604	7.11	BROWN	MODERATE	NONE	
T						1.0	24.1	0.642	7.22	BROWN	HIGH	NONE	PURGED DRY
HM-70	26-May-93	23.09	46.01	15.0	45	15.0	24.3	0.669	6.92	LIGHT GREY	LOW	NONE	
						15.0	23.8	0.661	7.05	COLORLESS	NONE	NONE	
T						15.0	23.7	0.663	7.11	COLORLESS	NONE	NONE	
HM-71	27-May-93	24.61	41.67	11.1	36	12.0	23.9	0.826	6.89	TAN	HIGH	NONE	
						12.0	23.3	0.818	6.96	TAN	HIGH	NONE	
T						12.0	23.4	0.822	6.94	TAN	HIGH	NONE	
HM-72	22-May-93	7.38	39.20	20.8	63	21.0	23.9	1.024	7.06	COLORLESS	LOW	NONE	
						21.0	23.9	1.371	6.95	COLORLESS	LOW	NONE	
T						21.0	23.5	1.351	7.08	LIGHT TAN-GREY	MODERATE	NONE	
HM-73	14-May-93	12.37	43.40	20.2	57	19.0	22.8	2.319	6.50	GREY	LOW	NONE	
						19.0	23.8	2.230	6.51	COLORLESS	NONE	NONE	
G						19.0	24.5	2.681	6.55	GREY	NONE	NONE	PURGED DRY
HM-74	13-May-93	20.50	38.67	11.9	35	12.0	24.8	3.680	6.20	COLORLESS	VERY LOW	NONE	
						12.0	24.4	4.000	6.90	COLORLESS	VERY LOW	NONE	
T						11.0	24.9	4.080	6.46	LIGHT BROWN	MODERATE	NONE	PURGED DRY
HM-75	10-May-93	10.74	29.04	11.9	14.5	12.0	23.6	2.146	6.32	COLORLESS	VERY LOW	NONE	
T	11-May-93					2.5	23.4	2.495	6.71	COLORLESS	VERY LOW	NONE	PURGED DRY
HM-76	10-May-93	10.90	33.40	14.7	18.5	14.5	22.1	1.508	6.90	LIGHT BROWN	LOW	NONE	
B						4.0	22.0	1.617	7.54	LIGHT BROWN	LOW	NONE	PURGED DRY
HM-77	08-May-93	19.38	33.24	9.1	27	9.0	20.8	0.710	7.24	GREY	MODERATE	NONE	
						9.0	20.9	0.698	7.18	GREY	MODERATE	NONE	
B						9.0	21.0	0.700	7.17	GREY	MODERATE	NONE	
HM-79	17-May-93	23.14	40.65	11.4	34.5	11.5	22.7	0.924	6.83	COLORLESS	LOW	NONE	
						11.5	22.3	0.902	6.81	COLORLESS	LOW	NONE	
T						11.5	22.4	0.908	6.82	COLORLESS	LOW	NONE	
HM-80	12-May-93	7.50	28.94	14.0	28	14.0	21.5	1.612	6.72	LIGHT BROWN	LOW	NONE	
T						14.0	22.0	2.110	6.88	LIGHT BROWN	LOW	NONE	PURGED DRY

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LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-81	11-May-93	11.16	25.80	9.6	19.5	10.0	19.3	0.824	6.82	TAN	HIGH	NONE	
T						9.5	19.6	1.066	6.91	LIGHT TAN	HIGH	NONE	PURGED DRY
HM-82	25-May-93	26.36	50.18	15.5	46.8	15.6	22.8	0.806	6.79	COLORLESS	VERY LOW	NONE	
						15.6	22.9	0.848	6.69	COLORLESS	VERY LOW	NONE	
G						15.6	23.0	0.854	6.66	COLORLESS	VERY LOW	NONE	
HM-84	05-May-93	3.89	5.60	0.3	1.2	0.3	22.1	0.711	7.34	COLORLESS	LOW	NONE	
						0.3	21.4	0.856	6.93	COLORLESS	LOW	NONE	
						0.3	21.1	0.911	6.89	LIGHT TAN	MODERATE	NONE	
B						0.3	20.8	0.956	6.84	LIGHT TAN	MODERATE	NONE	
						0.3	20.6	0.950	6.84	LIGHT TAN	MODERATE	NONE	
HM-86	25-May-93	23.97	52.26	18.5	55.5	18.5	22.8	0.698	6.77	COLORLESS	NONE	NONE	
						18.5	22.9	0.699	6.82	COLORLESS	NONE	NONE	
G						18.5	23.0	0.702	6.79	COLORLESS	NONE	NONE	
HM-87	05-Jun-93	20.60	39.91	12.6	37.8	12.6	22.8	0.761	7.20	WHITE	LOW	NONE	
						12.6	22.9	0.772	7.21	WHITE	LOW	NONE	
T						12.6	23.0	0.793	7.30	WHITE	LOW	NONE	
HM-88	24-May-93	21.17	46.29	16.4	51	17.0	23.4	0.754	6.72	COLORLESS	NONE	NONE	
						17.0	23.4	0.747	6.70	COLORLESS	NONE	NONE	
G						17.0	23.4	0.746	6.70	COLORLESS	NONE	NONE	
HM-89	24-May-93	25.12	50.60	16.6	51	17.0	24.8	0.673	6.74	COLORLESS	NONE	NONE	
						17.0	24.4	0.682	6.73	COLORLESS	NONE	NONE	
G						17.0	24.3	0.677	6.72	COLORLESS	NONE	NONE	
HM-90	21-May-93	29.54	58.19	18.7	57	19.0	24.4	0.875	6.76	LIGHT BROWN	NONE	NONE	
						19.0	23.8	0.872	6.71	LIGHT BROWN	LOW	NONE	
T						19.0	23.4	0.872	6.69	LIGHT BROWN	LOW	NONE	
HM-91	04-Jun-93	29.37	60.26	20.2	60	20.0	24.4	0.914	6.81	TAN	LOW	NONE	
						20.0	24.4	0.888	6.77	NONE	VERY LOW	NONE	
G						20.0	24.7	0.882	6.78	NONE	VERY LOW	NONE	
HM-92	15-May-93	25.32	61.50	23.6	70.5	23.5	22.7	0.858	6.69	COLORLESS	VERY LOW	NONE	
						23.5	22.6	0.863	6.73	COLORLESS	VERY LOW	NONE	
T						23.5	22.9	0.871	6.71	COLORLESS	VERY LOW	NONE	
HM-93	22-May-93	26.14	39.72	8.9	13.8	9.0	23.2	1.933	7.15	COLORLESS	LOW	NONE	
B	23-May-93					4.8							PURGED DRY
HM-94	26-May-93	28.76	60.26	20.6	61.5	20.5	22.8	0.771	7.01	COLORLESS	NONE	NONE	
						20.5	22.7	0.770	6.85	COLORLESS	NONE	NONE	
G						20.5	22.8	0.751	6.88	COLORLESS	NONE	NONE	
HM-95	27-May-93	25.13	44.40	12.6	39	13.0	20.7	0.577	6.99	TAN	MODERATE	NONE	
						13.0	20.7	0.583	6.98	TAN	MODERATE	NONE	
T						13.0	20.7	0.577	6.98	TAN	MODERATE	NONE	
HM-96	27-May-93	25.86	54.88	18.9	57	19.0	21.6	1.051	6.72	COLORLESS	LOW	NONE	
						19.0	21.6	1.026	6.78	COLORLESS	LOW	NONE	
T						19.0	21.5	1.022	6.77	COLORLESS	LOW	NONE	
HM-97	26-May-93	25.71	49.10	15.3	45.9	15.3	23.4	0.935	6.80	LIGHT TAN	MODERATE	NONE	
						15.3	23.1	0.931	6.75	LIGHT TAN	MODERATE	NONE	
T						15.3	22.9	0.958	6.80	LIGHT TAN	MODERATE	NONE	

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-98	26-May-93	22.83	28.23	3.5	10.5	3.5	20.5	1.071	6.64	GREY	HIGH	SULFUR	MUDDY WATER
						3.5	20.6	1.070	6.67	GREY	HIGH	SLIGHT SULFUR	MUDDY WATER
T						3.5	20.4	1.072	6.65	GREY	HIGH	SLIGHT SULFUR	MUDDY WATER
HM-99	27-May-93	28.11	43.10	11.1	33	11.0	22.1	0.754	6.77	TAN	MODERATE	NONE	
						11.0	22.2	0.780	6.78	TAN	MODERATE	NONE	
T						11.0	22.0	0.760	6.79	TAN	MODERATE	NONE	
HM-100	05-May-93	32.31	47.25	2.4	7.5	2.5	20.6	0.667	6.98	TAN	HIGH	NONE	
						2.5	20.8	0.636	6.98	TAN	HIGH	NONE	
B						2.5	20.9	0.647	6.99	LIGHT TAN	HIGH	NONE	
HM-101	04-May-93	16.18	44.85	4.7	14.1	4.7	20.8	1.027	6.90	GREY	HIGH	NONE	
						4.7	20.6	0.944	6.96	DARK GREY	HIGH	NONE	
B						4.7	20.5	0.993	6.96	DARK GREY	HIGH	NONE	
HM-102	05-May-93	19.45	32.68	2.2	6.6	2.2	18.9	0.664	6.75	TAN	HIGH	NONE	
						2.2	18.8	0.672	6.77	TAN	HIGH	NONE	
B						2.2	19.1	0.677	6.75	TAN	HIGH	NONE	
HM-103	26-May-93	24.25	39.00	2.4	7.5	2.5	23.3	0.638	6.83	BROWN	MODERATE	NONE	
		*	*			2.5	23.8	0.633	6.92	BROWN	MODERATE	NONE	
T						2.5	23.3	0.643	6.98	BROWN	MODERATE	NONE	
HM-104	06-May-93	21.65	38.32	2.7	8.1	2.7	23.1	1.331	6.96	LIGHT GREY	MODERATE	NONE	
						2.7	23.1	1.338	6.92	LIGHT GREY	MODERATE	NONE	
B						2.7	23.1	1.363	6.96	GREY	HIGH	NONE	
HM-105	13-May-93	13.88	20.50	1.1	3	1.0	20.9	0.695	6.90	GREY	MODERATE	NONE	
			*			1.0	21.0	0.676	6.89	GREY	MODERATE	NONE	
T						1.0	20.8	0.677	6.87	GREY	MODERATE	NONE	
HM-107	07-May-93	16.08	25.30	1.5	4.5	1.5	19.4	0.715	6.78	LIGHT GREY	LOW	STRONG FUEL	SHEEN
						1.5	19.8	0.714	6.78	LIGHT BROWN	LOW	STRONG FUEL	SHEEN
B						1.5	21.3	0.701	6.94	LIGHT BROWN	MODERATE	STRONG FUEL	SHEEN
HM-108	07-May-93	14.62	15.00	0.1	1.5	0.8	19.9	0.746	6.79	VERY LIGHT BROWN	NONE	NONE	
						0.2	20.0	0.751	6.81	VERY LIGHT GREY	NONE	NONE	
	08-May-93					0.4	20.5	0.762	6.85	VERY LIGHT GREY	NONE	NONE	
B						0.3	22.4	0.766	7.00	VERY LIGHT BROWN	VERY LOW	NONE	PURGED DRY
HM-110	02-Jun-93	19.12	35.24	10.5	33	11.0	21.9	0.659	6.90	TAN	MODERATE	NONE	
						11.0	22.6	0.581	6.98	TAN	LOW	NONE	
T						11.0	21.9	0.596	7.03	TAN	MODERATE	NONE	
HM-111	02-Jun-93	19.07	48.6	19.3	60	20.0	23.6	0.573	6.94	BROWN	MODERATE	NONE	
						20.0	23.4	0.566	6.97	BROWN	MODERATE	NONE	
G						20.0	22.8	0.564	7.11	BROWN	MODERATE	NONE	
HM-112	03-Jun-93	18.83	48.54	19.4	60	20.0	23.0	0.697	6.94	NONE	VERY LOW	NONE	
						20.0	23.6	0.683	6.98	TAN	LOW	NONE	
G						20.0	23.1	0.701	7.00	TAN	LOW	NONE	
HM-113	10-Jun-93	22.41	45.58	15.1	90	15.0	21.6	0.208	7.21	BROWN	HIGH	NONE	
						15.0	21.6	0.258	7.30	BROWN	HIGH	NONE	
						15.0	21.2	0.317	7.25	BROWN	HIGH	NONE	
B						15.0	21.3	0.339	7.21	BROWN	HIGH	NONE	
						15.0	21.3	0.359	7.23	BROWN	HIGH	NONE	
						15.0	21.2	0.372	7.20	BROWN	MODERATE	NONE	

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TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
HM-114	23-May-93	13.77	35.73	14.3	45	15.0	21.1	0.633	6.95	COLORLESS	MODERATE	NONE	
						15.0	20.7	0.626	6.95	COLORLESS	MODERATE	NONE	
T						15.0	20.9	0.630	6.99	COLORLESS	MODERATE	NONE	
HM-115	23-May-93	10.75	27.00	10.6	33	11.0	19.0	0.751	6.89	COLORLESS	LOW	NONE	
						11.0	18.5	0.762	6.92	COLORLESS	LOW	NONE	
T						11.0	18.4	0.759	6.93	COLORLESS	LOW	NONE	
HM-116	25-May-93	18.43	31.44	8.5	27	9.0	20.4	0.885	6.97	TAN	MODERATE	NONE	
						9.0	20.5	0.883	6.94	TAN	MODERATE	NONE	
B						9.0	21.3	0.875	6.96	TAN	MODERATE	NONE	
HM-117	25-May-93	18.47	38.49	13.1	39	13.0	22.0	1.095	6.83	COLORLESS	MODERATE	NONE	
						13.0	22.1	1.075	6.91	COLORLESS	MODERATE	NONE	
T						13.0	22.1	1.075	6.85	COLORLESS	MODERATE	NONE	
HM-118	25-May-93	12.76	26.36	8.9	27	9.0	18.8	1.027	6.47	TAN	MODERATE	NONE	
						9.0	18.9	1.027	6.49	TAN	MODERATE	NONE	
T						9.0	18.9	2.097	6.50	TAN	MODERATE	NONE	
HM-119	21-May-93	10.25	28.90	12.2	50.5	13.0	19.4	1.079	6.67	GREY	MODERATE	NONE	
						12.5	19.6	1.091	6.72	COLORLESS	NONE	NONE	
						12.5	19.5	1.062	6.70	COLORLESS	NONE	NONE	
T						12.5	19.5	1.090	6.71	COLORLESS	NONE	NONE	
HM-120	21-May-93	3.50	17.60	9.2	27.6	9.2	17.4	1.250	6.75	COLORLESS	LOW	NONE	
						9.2	17.2	1.219	6.74	COLORLESS	LOW	NONE	
B						9.2	17.2	1.212	6.74	COLORLESS	NONE	NONE	
HM-121	26-May-93	15.39	30.24	9.7	30	10.0	20.4	1.656	6.71	COLORLESS	LOW	NONE	
						10.0	20.2	1.450	6.79	COLORLESS	LOW	NONE	
T						10.0	20.2	1.646	6.79	COLORLESS	LOW	NONE	
HM-122	21-May-93	17.55	27.79	6.7	21	7.0	20.7	0.773	6.87	GREY	HIGH	SLIGHT SEPTIC	
						7.0	20.6	0.737	6.88	GREY	HIGH	SLIGHT SEPTIC	
B						7.0	20.6	0.709	6.93	GREY-TAN	HIGH	SLIGHT SEPTIC	
HM-123	21-May-93	23.93	38.37	9.4	28.5	9.5	21.2	0.793	6.72	COLORLESS	NONE	NONE	
						9.5	21.1	0.734	6.73	COLORLESS	NONE	NONE	
T						9.5	21.6	0.779	6.76	COLORLESS	NONE	NONE	
HM-124	20-May-93	11.99	24.53	8.2	13	9.0	19.5	0.635	6.94	TAN	LOW	NONE	
B						4.0	19.4	0.674	6.90	COLORLESS	NONE	NONE	PURGED DRY
HM-125	20-May-93	13.72	33.05	12.6	36.5	12.5	21.9	0.592	6.96	TAN	LOW	NONE	
						12.0	21.7	0.594	7.06	TAN	LOW	NONE	
B						12.0	22.0	0.576	7.02	TAN	LOW	NONE	
HM-126	10-Jun-93	10.48	35.75	16.5	49.5	16.5	21.1	0.540	6.93	COLORLESS	VERY LOW	NONE	
						16.5	21.1	0.529	7.11	COLORLESS	VERY LOW	NONE	
T						16.5	21.2	0.526	7.16	COLORLESS	VERY LOW	NONE	
HM-127	19-May-93	22.32	37.60	10.1	30.3	10.1	19.5	0.589	6.92	COLORLESS	LOW	NONE	
						10.1	19.5	0.560	6.92	COLORLESS	LOW	NONE	
T						10.1	19.2	0.570	6.90	COLORLESS	NONE	NONE	
W-126L	19-May-93	16.25	34.09	11.6	16	11.8	22.8	2.507	6.76	LIGHT GREY	MODERATE	NONE	
B						4.2							PURGED DRY
W-129	11-May-93	14.07	14.96	0.1	0.3	0.3	17.2	4.960	6.66	LIGHT BROWN	HIGH	NONE	PURGED DRY
B	12-May-93												

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
W-130	14-Jun-93	17.39	25.40	1.3	1.3	1.3							PRODUCT @ 23.90'-25.40', PURGED DRY
B						0.0	21.6	9.193	5.90	COLORLESS	VERY LOW	NONE	AT SAMPLE COLLECTION 11 HRS. LATER
W-131L	04-Jun-93	15.10	32.54	2.8	4.5	3.0	22.9	1.971	6.46	GREY	HIGH	NONE	
B						1.5							PURGED DRY
						0.0	22.2	1.961	6.75	GREY	HIGH	NONE	AT SAMPLE COLLECTION 45 MIN LATER
W-131U	04-Jun-93	14.61	21.76	1.2	3.3	1.1	22.3	0.951	6.70	LIGHT GREY	MODERATE	NONE	
B						1.1	22.4	0.981	6.70	LIGHT GREY	MODERATE	NONE	
						1.1	22.3	0.981	6.72	LIGHT GREY	MODERATE	NONE	
W-132	11-May-93	20.30	23.38	0.5	0.5	0.3	19.1	0.830	7.15	BROWN	VERY HIGH	NONE	
B						0.2							PURGED DRY
W-133L	04-Jun-93	19.17	31.86	2.1	6	2.0	23.0	1.538	6.33	DARK GREY	HIGH	STRONG FUEL	SHEEN
B						2.0	22.9	1.481	6.33	DARK GREY	HIGH	STRONG FUEL	SHEEN
						2.0	23.1	1.462	6.38	DARK GREY	HIGH	STRONG FUEL	SHEEN
W-133U	04-Jun-93	18.38	19.74	0.2	0.5	0.2	23.2	0.625	6.82	GREY	SLIGHT	FUEL	SHEEN
B						0.3	22.5	0.606	6.80	COLORLESS	SLIGHT	FUEL	PURGED DRY
W-134	13-May-93	15.32	16.52	0.2	0.5	0.2	22.5	0.865	6.65	LIGHT GREY	MODERATE	NONE	
B						0.3							PURGED DRY
W-135	12-May-93	3.69	12.00	1.4	4.5	1.5	20.1	6.434	6.15	BROWN-GREY	MODERATE	SULFUR	
B	13-May-93					1.5	20.8	8.051	6.13	TAN-GREY	MODERATE	SULFUR	
						1.5	20.1	0.000	6.39	TAN-GREY	MODERATE	SULFUR	PURGED DRY
W-136	09-May-93	20.18	32.06	1.9	6	2.0	23.0	0.538	7.13	GREY	MODERATE	FUEL	SHEEN
B						2.0	23.0	0.644	7.01	GREY	MODERATE	FUEL	SHEEN
						2.0	23.0	0.654	7.01	GREY	MODERATE	FUEL	SHEEN
W-137	07-May-93	20.84	27.98	1.2	3.6	1.2	21.1	0.700	6.98	PINKISH TAN	VERY HIGH	NONE	
B						1.2	21.2	0.680	7.04	PINKISH TAN	VERY HIGH	NONE	
						1.2	21.0	0.680	6.98	PINKISH TAN	VERY HIGH	NONE	
W-139L	10-Jun-93	20.47	33.07	2.1	2.5	2.0	23.8	1.465	6.65	LIGHT GREY	HIGH	NONE	
B	11-Jun-93					0.5							PURGED DRY
W-139U	13-Jun-93	22.20	29.85	5.0	15	5.0	23.9	0.848	6.54	LIGHT GREY	VERY LOW	FUEL	PRODUCT @ 19.64'-22.20'
B						5.0	23.0	0.835	6.50	LIGHT GREY	VERY LOW	FUEL	
						5.0	22.9	0.829	6.51	LIGHT GREY	VERY LOW	FUEL	
W-140L	10-Jun-93	20.04	29.09	5.9	18	6.0	23.2	0.673	6.74	GREY BROWN	HIGH	FUEL	
B						6.0	22.8	0.671	6.64	GREY BROWN	HIGH	FUEL	
						6.0	22.8	0.656	6.67	GREY BROWN	HIGH	FUEL	
W-141L	11-Jun-93	19.89	32.93	2.1	2.7	2.2	23.6	0.923	6.50	LIGHT GREY	HIGH	NONE	
B	13-Jun-93					0.5							PURGED DRY
						0.0	23.3	0.782	6.36	LIGHT GREY	HIGH	SLIGHT	AT SAMPLE COLLECTION 6/13/93
W-141U	13-Jun-93	19.60	27.70	5.2	6	5.0	24.2	1.037	6.49	GREY	MODERATE	FUEL	PRODUCT @ 19.70'-19.80'
B						1.0	24.0	0.961	6.53	GREY	MODERATE	FUEL	PURGED DRY
W-143	13-May-93	20.60	30.45	1.6	6	1.6	24.0	1.805	6.42	LIGHT GREY	HIGH	NONE	
B						1.6	23.1	1.796	6.44	LIGHT GREY	HIGH	NONE	
						2.8	23.8	1.798	6.46	LIGHT GREY	HIGH	NONE	
W-144	04-Jun-93	22.97	32.24	1.5	4.5	1.5	23.0	1.092	7.14	LIGHT YELLOW	MODERATE	NONE	
B						1.5	23.9	1.082	7.10	LIGHT GREY	MODERATE	NONE	
						1.5	22.8	1.071	7.15	LIGHT GREY	MODERATE	NONE	

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
W-145	07-May-93	14.35	18.73	0.7	1.0	1.0	23.2	0.648	7.08	BROWN	VERY HIGH	NONE	PURGED DRY
B													
W-146	09-May-93	20.85	27.97	1.2	3	1.0	23.2	0.450	7.53	LIGHT BROWN	MODERATE	NONE	
						1.0	23.2	0.504	7.42	LIGHT BROWN	MODERATE	NONE	
B						1.0	23.2	0.529	7.42	LIGHT BROWN	MODERATE	NONE	
W-147	10-May-93	20.68	30.32	6.3	18	6.0	21.4	0.724	8.00	LIGHT BROWN	MODERATE	NONE	
						6.0	21.8	0.650	8.20	LIGHT BROWN	MODERATE	NONE	
B						6.0	21.2	0.645	8.22	LIGHT BROWN	MODERATE	NONE	PURGED DRY
W-148	10-Jun-93	22.60	30.19	1.2	5	1.5	22.9	0.760	6.52	LIGHT GREY	HIGH	FUEL	SLIGHT SHEEN
						2.0	23.3	0.718	6.52	LIGHT GREY	HIGH	FUEL	SLIGHT SHEEN
B						1.5	23.3	0.703	6.54	LIGHT GREY	HIGH	FUEL	SLIGHT SHEEN
W-149	26-May-93	26.83	57.95	5.1	15	5.0	22.6	0.948	6.83	LIGHT BROWN	LOW	NONE	
						5.0	22.8	0.947	6.80	LIGHT BROWN	LOW	NONE	
B						5.0	22.6	0.964	6.82	LIGHT BROWN	LOW	NONE	
W-150L	02-Jun-93	32.36	45.11	2.1	6	2.0	21.7	1.913	6.68	COLORLESS	LOW	NONE	
						2.0	22.0	2.056	6.58	COLORLESS	LOW	NONE	
B						2.0	21.9	2.386	6.59	COLORLESS	MODERATE	NONE	
W-150U	02-Jun-93	26.28	30.26	0.6	2.5	0.6	21.5	4.435	6.49	WHITE	LOW	SLIGHT	
						0.6	21.7	4.184	6.53	WHITE	LOW	SLIGHT	
						0.6	21.8	3.767	6.64	WHITE	LOW	SLIGHT	
						0.7							PURGED DRY
B	03-Jun-93					0.0	22.4	2.570	6.50				AT SAMPLE COLLECTION 6/3/93
W-151	25-May-93	25.17	59.27	5.6	16.8	5.6	22.7	0.708	6.69	GREY	MODERATE	NONE	
						5.6	22.5	0.722	6.93	GREY	MODERATE	NONE	
B						5.6	22.7	0.723	6.90	GREY	MODERATE	NONE	
W-152	20-May-93	25.09	35.98	1.8	8	2.0	23.1	2.228	8.00	LIGHT GREY	MODERATE	NONE	
						2.0	23.1	2.218	7.47	LIGHT GREY	MODERATE	NONE	
						2.0	23.0	2.467	7.20	LIGHT GREY	MODERATE	NONE	
B						2.0	23.0	2.438	7.00	LIGHT GREY	MODERATE	NONE	
W-153	25-May-93	16.02	38.97	3.7	12	4.0	22.8	0.757	6.90	TAN	LOW	NONE	
						4.0	22.6	0.736	6.85	TAN	LOW	NONE	
B						4.0	22.3	0.729	6.89	TAN	LOW	NONE	
W-154	03-Jun-93	29.00	41.48	2.0	6	2.0	21.8	1.519	7.10	TAN	MODERATE	NONE	
						2.0	21.4	1.679	6.89	TAN	MODERATE	NONE	
B						2.0	21.9	1.879	6.87	TAN	MODERATE	NONE	
W-155	27-May-93	17.92	22.77	0.8	3	1.0	19.6	1.005	6.93	COLORLESS	LOW	NONE	
						1.0	19.7	1.013	6.96	COLORLESS	LOW	NONE	
B						1.0	19.7	1.034	6.95	COLORLESS	LOW	NONE	
W-156	27-May-93	26.68	57.64	5.0	15	5.0	24.5	0.727	6.89	COLORLESS	LOW	NONE	
						5.0	24.4	0.735	7.00	COLORLESS	LOW	NONE	
B						5.0	24.4	0.725	6.97	COLORLESS	LOW	NONE	
W-157	12-May-93	11.67	33.45	3.6	10.5	3.5	20.5	2.061	6.65	COLORLESS	LOW	NONE	
						3.5	20.9	2.016	6.55	COLORLESS	LOW	NONE	
B						3.5	20.9	2.107	6.56	COLORLESS	LOW	NONE	

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER ZONE WELLS (cont.)													
W-158	06-Jun-93	23.36	36.80	2.2	6	2.0	24.2	0.712	7.06	TAN	VERY HIGH	NONE	
						2.0	24.4	0.705	6.97	TAN	VERY HIGH	NONE	
B						2.0	24.4	0.702	6.93	TAN	VERY HIGH	NONE	
W-159	05-Jun-93	24.04	37.23	2.2	6	2.0	24.7	0.651	7.12	YELLOW	VERY HIGH	NONE	
						2.0	24.5	0.649	7.12	YELLOW	VERY HIGH	NONE	
B						2.0	24.5	0.654	7.07	YELLOW	VERY HIGH	NONE	
W-160	05-Jun-93	24.41	37.85	2.2	6	2.0	24.0	0.525	7.08	TAN	HIGH	NONE	
						2.0	23.9	0.520	7.07	TAN	HIGH	NONE	
B						2.0	24.2	0.521	7.09	TAN	HIGH	NONE	
W-162	04-Jun-93	25.23	27.59	0.4	1.5	1.5	22.4	0.662	7.07	TAN	LOW	NONE	PURGED DRY
B	05-Jun-93												
W-163	04-Jun-93	25.76	29.38	2.4	7.5	2.5	22.0	0.820	6.71	DARK GREY	VERY HIGH	FUEL	
						2.5	21.8	0.778	6.70	DARK GREY	VERY HIGH	FUEL	
B						2.5	22.4	0.746	6.76	DARK GREY	VERY HIGH	FUEL	
CARSWELL AFB UPPER ZONE WELLS													
LF04-01	19-May-93	26.86	41.41	2.0	6.3	2.1	20.4	0.866	6.65	TAN	HIGH	NONE	
						2.1	20.6	0.836	6.65	TAN	HIGH	NONE	
B						2.1	20.3	0.860	6.61	TAN	HIGH	NONE	
LF04-02	22-May-93	26.46	38.86	2.0	6	2.0	21.2	0.828	6.82	TAN	HIGH	NONE	
						2.0	21.4	0.829	6.83	TAN	HIGH	NONE	
B						2.0	21.0	0.833	6.83	TAN	HIGH	NONE	
LF04-04	22-May-93	17.14	27.02	1.6	6	2.0	20.8	0.855	6.79	TAN	HIGH	NONE	
						2.0	20.6	0.856	6.79	TAN	HIGH	NONE	
B						2.0	20.1	0.855	6.79	TAN	HIGH	NONE	
LF04-10	18-May-93	20.79	47.70	4.4	13.2	4.4	20.9	0.882	6.74	TAN	HIGH	NONE	
						4.4	20.4	0.885	6.75	TAN	HIGH	NONE	
B						4.4	20.3	0.885	6.72	TAN	HIGH	NONE	
LF04-4A	18-May-93	10.58	24.80	2.3	6.9	2.3	18.6	0.636	6.97	TAN	LOW	NONE	
						2.3	18.3	0.640	6.94	TAN	SLI-MOD	NONE	
B						2.3	18.4	0.641	6.97	TAN	MODERATE	NONE	
LF04-4B	18-May-93	19.76	25.31	0.9	2.7	0.9	16.5	0.753	6.95	TAN	HIGH	NONE	
						0.9	16.6	0.722	6.96	TAN	HIGH	NONE	
B						0.9	16.5	0.718	6.95	TAN	HIGH	NONE	
LF04-4C	18-May-93	16.70	27.99	1.8	5.4	1.8	20.6	0.996	6.56	TAN	LOW	NONE	
						1.8	20.4	0.988	6.56	TAN	MODERATE	NONE	
B						1.8	20.8	0.975	6.50	TAN	MODERATE	NONE	
LF04-4G	23-May-93	23.98	33.40	1.5	5.1	1.7	19.4	0.611	6.89	TAN	HIGH	NONE	
						1.7	19.4	0.615	6.89	TAN	HIGH	NONE	
B						1.7	19.4	0.621	6.87	TAN	HIGH	NONE	
LF05-01	19-May-93	16.92	27.66	1.6	5.4	1.8	19.8	0.872	6.86	BROWN	HIGH	NONE	
						1.8	19.6	0.753	6.87	BROWN	HIGH	NONE	
B						1.8	19.9	0.785	6.86	BROWN	HIGH	NONE	
LF05-02	20-May-93	24.55	30.00	0.9	4	1.0	18.5	1.005	6.66	BROWN	HIGH	NONE	
						1.0	19.8	0.923	6.69	BROWN	HIGH	NONE	
						1.0	20.4	0.878	6.71	BROWN	HIGH	NONE	
B						1.0	20.4	0.830	6.74	BROWN	HIGH	NONE	

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
CARSWELL AFB UPPER ZONE WELLS													
LF05-14	23-May-93	8.66	9.67	0.2	1.5	0.5	18.4	0.992	6.70	LIGHT TAN	HIGH	NONE	
						0.5	18.0	1.006	6.72	LIGHT TAN	HIGH	NONE	
B						0.5	18.0	0.998	6.73	LIGHT TAN	HIGH	NONE	
LF05-18	22-May-93	17.94	23.56	0.9	3	1.0	18.5	0.981	6.74	TAN	HIGH	NONE	
						1.0	18.6	0.966	6.73	TAN	HIGH	NONE	
B						1.0	18.7	0.962	6.72	TAN	HIGH	NONE	
LF05-19	18-May-93	12.88	19.49	1.1	3.3	1.1	19.9	1.036	6.62	TAN	LOW	NONE	
						1.1	19.7	1.008	6.54	TAN	LOW	NONE	
B						1.1	19.9	0.997	6.53	TAN	LOW	NONE	
LF05-5A	21-May-93	22.54	30.35	1.3	3.8	1.3	19.4	0.877	6.73	TAN	HIGH	NONE	
						1.2	19.6	0.867	6.72	TAN	MODERATE	NONE	
B						1.3	19.3	0.873	6.75	TAN	MODERATE	NONE	
LF05-5B	18-May-93	3.48	12.49	1.5	4.5	1.5	17.5	0.940	6.65	COLORLESS	NONE	NONE	
						1.5	17.7	0.929	6.65	COLORLESS	NONE	NONE	
B						1.5	17.6	0.927	6.64	COLORLESS	NONE	NONE	
LF05-5E	21-May-93	28.49	36.06	1.6	4.8	1.6	20.3	0.802	6.80	TAN	HIGH	NONE	
						1.6	20.2	0.803	6.89	TAN	HIGH	NONE	
B						1.6	20.2	0.806	6.91	TAN	HIGH	NONE	
PALUXY UPPER SAND WELLS													
P-8US	09-Jun-93	54.01	66.68	8.3	22	8.5	23.6	0.495	10.86	COLORLESS	LOW	NONE	
						8.5	24.0	0.500	10.92	COLORLESS	LOW	NONE	
						5.0	0.0	0.000	0.00	COLORLESS	LOW	NONE	PURGED DRY
T	10-Jun-93					0.0	23.1	0.569	10.98				AT SAMPLE COLLECTION 6/10/93
P-9US	08-Jun-93	43.48	75.76	21.1	63	21.0	23.9	0.699	7.08	COLORLESS	NONE	NONE	
						21.0	23.9	0.690	7.08	COLORLESS	NONE	NONE	
T						21.0	23.8	0.768	7.16	COLORLESS	NONE	NONE	
P-12US	09-May-93	50.33	61.50	6.4	14.5	6.5	24.4	0.495	11.12	COLORLESS	NONE	NONE	
						6.0	23.0	0.617	11.27	COLORLESS	NONE	NONE	
B						2.0							PURGED DRY
P-14US	24-May-93	54.05	70.42	10.7	15	10.8	22.9	0.385	10.47	COLORLESS	VERY LOW	NONE	
						4.2	0.0	0.000	0.00				PURGED DRY
B	25-May-93					0.0	23.0	0.329	8.24	COLORLESS	NONE	NONE	AT SAMPLE COLLECTION 5/25/93
P-15US	23-May-93	52.33	69.92	11.5	17	11.5	22.7	0.923	11.55	COLORLESS	VERY LOW	NONE	
B	24-May-93					5.5							PURGED DRY
P-16US	23-May-93	35.51	69.83	22.4	29.5	22.5	24.6	0.353	6.67	COLORLESS	NONE	NONE	
G	24-May-93					7.0							PURGED DRY
P-17US	24-May-93	72.21	72.98	0.5	0.3	0.3	22.8	0.526	7.50	V. LIGHT BROWN	MODERATE	SLIGHT SWEET	PURGED DRY
B	25-May-93												
P-18US	26-May-93	69.60	73.74	2.7	9	3.0	21.9	0.655	7.10	GREY	MODERATE	NONE	
						3.0	21.8	0.654	7.21	GREY	MODERATE	NONE	
B						3.0	21.8	0.655	7.21	GREY	MODERATE	NONE	
P-19US	03-Jun-93	65.36	69.25	2.5	3	3.0	24.0	0.771	7.18	TAN	LOW	NONE	PURGED DRY
B	05-Jun-93					0.0	21.8	0.763	6.90	TAN	MODERATE	NONE	AT SAMPLE COLLECTION 6/5/93

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER PALUXY WELLS													
P-5UN	18-May-93	77.60	99.13	14.0	45	15.0	22.4	0.951	6.84	COLORLESS	LOW	NONE	
						15.0	22.1	0.952	6.85	COLORLESS	LOW	NONE	
G						15.0	22.2	0.962	6.85	COLORLESS	LOW	NONE	
P-6U	12-May-93	83.24	99.60	15.1	15.5	15.0	22.2	1.029	11.06	DARK GREY	MODERATE	NONE	
G						0.5							PURGED DRY
P-7U	10-Jun-93	87.48	108.00 *	18.9	54	13.5	22.6	1.322	7.02	RUST	LOW	NONE	
						13.5	22.9	1.316	7.01	RUST	LOW	NONE	
						13.5	23.0	1.219	6.89	RUST	LOW	NONE	
G						13.5	22.8	1.227	7.09	TAN	MODERATE	NONE	PURGED DRY
P-8UN	09-Jun-93	85.90	95.81	6.5	26	6.5	23.1	0.336	9.17	COLORLESS	LOW	NONE	
						6.5	23.0	0.359	8.74	COLORLESS	LOW	NONE	
						6.5	23.4	0.429	8.30	COLORLESS	LOW	NONE	
T						6.5	23.3	0.426	8.24	COLORLESS	LOW	NONE	
P-9UN	20-May-93	89.25	111.00	14.2	45	15.0	23.6	0.837	7.28	COLORLESS	VERY LOW	NONE	
						15.0	23.3	0.824	7.28	COLORLESS	VERY LOW	NONE	
G						15.0	23.6	0.817	7.29	COLORLESS	VERY LOW	NONE	
P-10U	11-May-93	34.73	56.30	19.8	66	22.0	19.1	0.970	6.71	COLORLESS	VERY LOW	NONE	
						22.0	19.1	0.967	6.81	COLORLESS	VERY LOW	NONE	
G						22.0	19.2	0.962	6.85	GREY	MODERATE	NONE	
P-11U	19-May-93	82.25	93.22	7.2	24.2	6.6	23.7	0.402	8.72	COLORLESS	VERY LOW	NONE	
						6.6	25.0	0.544	7.67	COLORLESS	LOW	NONE	
						6.6	26.7	0.575	7.60	COLORLESS	NONE	NONE	
G						4.4							PURGED DRY
P-11U	10-Jun-93	82.24	93.34	7.2	22.5	7.5	22.9	0.525	7.35	COLORLESS	VERY LOW	NONE	PURGED AGAIN TO RECOLLECT
						7.5	22.8	0.544	7.77	COLORLESS	VERY LOW	NONE	SW8015 SAMPLES
B						7.5	22.6	0.590	7.66	COLORLESS	VERY LOW	NONE	
P-12UN	10-May-93	85.03	107.70	13.0	15	11.5	26.6	0.547	7.68	DARK GREY	HIGH	NONE	
G						3.5							PURGED DRY
P-13U	21-May-93	81.48	89.78	5.4	16.5	5.5	21.7	0.577	7.62	LIGHT GREY	LOW	NONE	
						5.5	21.9	0.566	7.56	LIGHT GREY	LOW	NONE	
B						5.5	21.9	0.577	7.53	LIGHT GREY	LOW	NONE	
P-15U	21-May-93	79.75	91.04	7.4	17.5	7.5	25.7	0.490	7.77	COLORLESS	NONE	NONE	
						7.5	33.1	0.541	7.88	COLORLESS	CLEAR	NONE	
G	22-May-93					2.5							PURGED DRY
P-21U	05-May-93	91.67	104.70	12.0	26.6	13.3	22.1	0.603	7.45	COLORLESS	VERY LOW	NONE	
G						13.3							PURGED DRY
P-22U	10-May-93	54.85	62.90	7.4	24	8.0	21.7	1.177	6.57	COLORLESS	NONE	SULFUR	
						8.0	21.5	1.177	6.55	COLORLESS	NONE	SULFUR	
G						8.0	21.3	1.180	6.55	COLORLESS	NONE	SULFUR	
P-23U	12-May-93	36.47	55.25	17.3	58	20.0	20.7	0.950	5.86	YELLOW-BROWN	MODERATE	SULFUR	
						18.0	20.7	0.968	5.92	YELLOW-BROWN	LOW	SULFUR	
G						20.0	20.9	0.964	5.89	YELLOW-BROWN	LOW	SULFUR	
P-24U	11-May-93	36.55	57.55	13.7	42	14.0	19.5	1.095	6.88	RED-BROWN	MODERATE	NONE	
						14.0	19.6	1.043	6.94	REDDISH TAN	LOW	NONE	
G						14.0	19.7	1.027	6.96	LIGHT TAN	VERY LOW	NONE	

TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
UPPER PALUXY WELLS (cont.)													
P-25U	07-May-93	88.74	114.65	14.9	45	15.0	24.2	0.598	7.34	LIGHT GREY	MODERATE	NONE	
						15.0	23.7	0.610	7.32	LIGHT GREY	MODERATE	NONE	
G						15.0	23.7	0.588	7.31	LIGHT GREY	MODERATE	NONE	
P-27U	26-May-93	84.38	94.55	1.7	4.8	1.6	22.0	1.152	6.81	LIGHT GREY	MODERATE	NONE	
						1.6	22.1	1.161	6.78	LIGHT GREY	MODERATE	NONE	
B						1.6	21.9	1.165	6.85	LIGHT GREY	MODERATE	NONE	
P-28U	13-May-93	66.05	89.66	3.9	12	4.0	24.5	2.080	6.34	VERY LIGHT GREY	LOW	NONE	
						4.0	24.3	2.035	6.28	VERY LIGHT GREY	LOW	NONE	
G						4.0	23.9	2.053	6.38	VERY LIGHT GREY	LOW	NONE	
MIDDLE PALUXY WELLS													
P-5M	17-May-93	80.82	153.96	67.3	200	70.0	23.2	0.721	7.31	COLORLESS	LOW	STRONG SULFUR	
						60.0	23.5	0.708	7.49	COLORLESS	VERY LOW	SULFUR	
G						70.0	23.6	0.691	7.42	COLORLESS	NONE	SULFUR	
P-5M	03-Jun-93	80.69	153.96	67.4	225	75.0	23.7	0.671	7.17	COLORLESS	VERY LOW	NONE	PURGED AGAIN TO RECOLLECT
			*			75.0	23.8	0.676	7.12	COLORLESS	VERY LOW	NONE	SW8015 SAMPLES
G						75.0	24.2	0.685	7.16	COLORLESS	VERY LOW	NONE	
P-6M	08-May-93	87.09	168.50	74.9	225	75.0	23.5	0.659	7.08	COLORLESS	NONE	NONE	
						75.0	23.8	0.663	7.09	COLORLESS	NONE	NONE	
G						75.0	23.6	0.648	7.07	COLORLESS	NONE	NONE	
P-7M	06-May-93	85.66	161.00	69.3	150	60.0	23.1	0.716	7.18	COLORLESS	VERY LOW	NONE	
						40.0	23.2	0.715	7.30	COLORLESS	VERY LOW	NONE	
G						50.0	23.3	0.709	7.16	COLORLESS	VERY LOW	NONE	
P-8M	22-May-93	82.89	163.01	73.7	225	75.0	22.9	0.682	7.55	COLORLESS	NONE	NONE	
						75.0	23.0	0.679	7.56	COLORLESS	NONE	NONE	
G						75.0	23.0	0.682	7.73	COLORLESS	NONE	NONE	
P-9M	20-May-93	90.20	162.31	66.3	205	65.0	22.5	0.701	7.34	COLORLESS	VERY LOW	NONE	
						70.0	22.9	0.687	7.19	COLORLESS	NONE	NONE	
G						70.0	22.9	0.679	7.15	COLORLESS	NONE	NONE	
P-10M	11-May-93	50.85	127.6	70.6	240	80.0	20.1	0.615	7.12	COLORLESS	VERY LOW	NONE	
						80.0	20.2	0.641	7.04	COLORLESS	NONE	NONE	
G						80.0	20.5	0.643	7.04	COLORLESS	NONE	NONE	
P-11M	19-May-93	82.44	165.47	47.6	165	55.0	21.9	0.576	7.46	COLORLESS	NONE	NONE	
						55.0	22.1	0.572	7.40	COLORLESS	NONE	NONE	
G						55.0	22.2	0.561	7.38	COLORLESS	NONE	NONE	
P-11M	11-Jun-93	82.57	165.47	47.5	142.5	47.5	23.6	0.548	7.29	COLORLESS	VERY LOW	NONE	PURGED AGAIN TO RECOLLECT
			*			47.5	23.0	0.548	7.41	COLORLESS	VERY LOW	NONE	SW8015 SAMPLES
G						47.5	22.4	0.554	7.43	COLORLESS	VERY LOW	NONE	
P-12M	09-May-93	84.65	156.00	40.9	142	41.0	23.3	0.750	7.03	COLORLESS	NONE	NONE	
			*			60.0	23.2	0.739	7.06	COLORLESS	NONE	NONE	
G						41.0	23.3	0.739	7.07	COLORLESS	NONE	NONE	
P-13M	21-May-93	81.65	166.40	55.3	168	56.0	23.0	0.684	7.24	COLORLESS	NONE	NONE	
						56.0	22.9	0.686	7.17	COLORLESS	NONE	NONE	
G						56.0	22.9	0.678	7.21	COLORLESS	NONE	NONE	

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TABLE 1
SUMMARY OF FIELD PARAMETERS
SEVENTH ROUND – MAY/JUNE 1993
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION & PURGE DEVICE	PURGE & SAMPLE DATE	DEPTH TO WATER (ft.)	TOTAL DEPTH (ft.)	CASING VOLUME (gal.)	TOTAL VOLUME PURGED (gal.)	FIELD PARAMETER MEASUREMENTS VOL. (gal.)	TEMP. (°C)	SPEC. COND. (mMhos/cm @ 25°C)	pH (units)	COLOR	TURBIDITY	ODOR	COMMENTS
MIDDLE PALUXY WELLS (cont.)													
P-20M	03-May-93	107.98	156.80	44.9	135	45.0	21.9	0.617	7.30	COLORLESS	VERY LOW	NONE	
						45.0	21.9	0.597	7.25	COLORLESS	NONE	NONE	
G						45.0	21.7	0.595	7.24	COLORLESS	NONE	NONE	
P-22M	10-May-93	58.89	134.92	49.6	150	50.0	22.2	0.604	7.11	COLORLESS	VERY LOW	SULFUR	
						50.0	21.9	0.603	7.08	COLORLESS	NONE	SULFUR	
G						50.0	21.3	0.602	7.06	COLORLESS	NONE	SULFUR	
P-24M	11-May-93	46.18	133.90	57.2	180	60.0	20.3	0.527	7.20	COLORLESS	LOW	SULFUR	
						60.0	20.4	0.527	7.17	COLORLESS	VERY LOW	SULFUR	
G						60.0	20.7	0.526	7.18	COLORLESS	NONE	SULFUR	
P-25M	07-May-93	88.31	158.86	40.5	126	42.0	22.4	0.611	7.28	COLORLESS	NONE	NONE	
						42.0	22.5	0.612	7.28	COLORLESS	NONE	NONE	
G						42.0	22.6	0.609	7.25	COLORLESS	NONE	NONE	
P-26M	09-May-93	93.28	180.20	49.8	150	50.0	22.5	0.601	7.23	COLORLESS	NONE	NONE	
						50.0	22.4	0.597	7.25	COLORLESS	NONE	NONE	
G						50.0	22.4	0.594	7.25	COLORLESS	NONE	NONE	
P-29M	12-May-93	81.45	132.80	11.6	36	12.0	21.2	0.751	6.95	COLORLESS	VERY LOW	NONE	
						12.0	21.1	0.739	6.94	COLORLESS	VERY LOW	NONE	
G						12.0	21.0	0.726	6.95	COLORLESS	VERY LOW	NONE	
P-30M	12-May-93	87.88	153.80	10.8	33	11.0	22.8	0.577	7.37	WHITE	MODERATE	NONE	
						11.0	22.5	0.585	7.38	WHITE	MODERATE	NONE	
G						11.0	23.0	0.580	7.36	WHITE	MODERATE	NONE	
WHITE SETTLEMENT MIDDLE PALUXY WELLS (Collected by direct transfer from faucet)													
WS-1	11-May-93	---	---	---	---	---	20.9	0.620	7.33	COLORLESS	VERY LOW	NONE	
WS-12	11-May-93	---	---	---	---	---	20.6	0.585	7.60	COLORLESS	VERY LOW	NONE	
WS-2	11-May-93	---	---	---	---	---	21.1	0.598	7.17	COLORLESS	LOW	NONE	
WS-3	11-May-93	---	---	---	---	---	20.4	0.539	7.39	COLORLESS	LOW	NONE	
WS-5A	11-May-93	---	---	---	---	---	21.0	0.570	7.72	COLORLESS	LOW	NONE	
WS-8	11-May-93	---	---	---	---	---	20.8	0.589	7.58	COLORLESS	LOW	NONE	
WS-H3	11-May-93	---	---	---	---	---	20.9	0.570	7.70	COLORLESS	VERY LOW	NONE	
SURFACE WATER (Collected with polypropylene pond dipper or beaker)													
C-5	24-May-93	---	---	---	---	---	25.0	0.623	7.99	COLORLESS	LOW	NONE	
EGL-1	24-May-93	---	---	---	---	---	23.0	0.575	7.90	COLORLESS	LOW	NONE	
EGL-2	24-May-93	---	---	---	---	---	23.3	0.625	7.96	COLORLESS	LOW	NONE	
LF05-S5	24-May-93	---	---	---	---	---	26.2	0.492	8.12	COLORLESS	LOW	NONE	
LF05-S6	24-May-93	---	---	---	---	---	25.6	0.600	7.99	COLORLESS	LOW	NONE	
LF05-S7	24-May-93	---	---	---	---	---	19.8	0.866	6.63	COLORLESS	LOW	NONE	
SW-03A	24-May-93	---	---	---	---	---	21.5	0.851	8.71	COLORLESS	LOW	NONE	
SW-08	24-May-93	---	---	---	---	---	20.9	0.966	7.66	COLORLESS	LOW	NONE	

NOTES:
* = Not measured.
Historical data used

PURGE DEVICE:
B = Non-dedicated bailer
G = Grundfos RediFlo2 submersible pump
T = Dedicated Triloc pump

As in previous sampling rounds, a variety of well constructions were encountered at monitoring well locations, requiring the use of several different purging devices. These included a non-dedicated submersible Grundfos pump, dedicated Triloc pumps, and non-dedicated bailers.

Groundwater samples to be analyzed for volatile organic compounds (VOCs) were collected using a 1-7/8" diameter Teflon bailer with Teflon bottom emptying device. At 12 wells, samples for VOC analysis were collected from a dedicated Triloc pump because the bailer would not fit down the well. Groundwater samples to be analyzed for non-volatile compounds were collected using either a 1-7/8" diameter Teflon bailer or a dedicated Triloc pump.

Samples from the eight City of White Settlement municipal water supply wells were collected directly from a faucet on the delivery pipe at each well while the production pumps were operating. Water was collected in this way both for measuring field parameters and for obtaining a sample. Prior to collecting the sample, the faucet was flushed by running water through it for a few seconds. The flow rate was kept as low as possible when collecting the sample for VOC analysis.

Surface water samples were collected using a polypropylene pond sampler or beaker. Flow rate was not measured, although Jacobs field team members observed stream flows to be similar to previous rounds of sampling.

2.2 SAMPLING PROCEDURES AT WELLS WITH FREE PRODUCT

Measurable free floating product was encountered in five wells. Purging and sampling procedures were the same as for other groundwater monitoring wells with the following modifications.

A 2-inch flush threaded PVC pipe was lowered into wells with measurable floating product below the product-water interface to approximately two feet off the bottom of the well. The well was purged with a disposable bailer by bailing water and product from the 2-inch pipe. The product level was monitored during purging by an interface probe lowered between the 2-inch pipe and the 4-inch casing. Purging was conducted at a rate so that the product-water interface was not allowed to drop below the bottom of the 2-inch pipe.

Measurable free sinking product was encountered in one well (W-130). The well was purged with a disposable bailer with the intention of bailing only the water, not the product. The water level was drawn down while purging before one full casing volume was removed. The last bailer contained only free product. The well recovered very slowly. A sample was only collected for VOC analysis.

2.3 WELL MAINTENANCE

Padlocks were placed on wells which were found to be unlocked. Well caps were also installed or replaced where necessary.

A broken Triloc pump was removed from well HM-73. The well was subsequently purged with a non-dedicated submersible pump.

3.0 OBSERVATIONS AND PROBLEMS

3.1 WELL CONSTRUCTION

Water level indicators could not be lowered between the Triloc pumps and the casing in nine 2-inch wells. Water level measurements were attempted in some of these wells by lowering the probe into the piston of the pump. These measurements are considered only estimates of the true water levels. Samples for volatile organic analyses were collected from these wells by means of the Triloc pumps because a bailer could not be lowered into the wellbore.

The casing volumes are very small for these nine wells and the wells could easily be purged using bailers. Jacobs recommends that the Triloc pumps be removed from these wells to facilitate water level and total depth measurement and sampling of the wells with bailers. The nine wells are:

HM-37	HM-56	HM-63
HM-50	HM-59	HM-103
HM-55	HM-62	HM-105

As previously reported by Jacobs, Middle Paluxy well P-12M may be prone to contamination by surface runoff via the well casing annulus. The well is a flush mount with a non-sealing vault cover. The casing is not stable in the hole and nothing is visible in the annulus from the surface. The construction diagram for P-12M shows filter sand in the bottom 48 feet of the hole. The material above the filter sand is interpreted from the diagram to be pea gravel. No bentonite seal is shown on the diagram. As discussed in Section 4.3, sample results also indicate possible contamination from surface runoff. Abandonment of this well is recommended to prevent further contamination.

Upper Zone well HM-74 may also be prone to contamination by surface runoff. A casing coupling is split at approximately 2 inches from the surface.

Two wells, F-207 and F-215, have no bolts to secure the well cover. The discharge spout from the Triloc pump in Upper Zone well HM-77 is broken and should be replaced.

3.2 PURGING/SAMPLING

Nine wells were not sampled because they were either dry (P-5US, P-11US, P-13US, P-26U, W-128U) or contained insufficient water to be withdrawn with a bailer (HM-106, W-164, P-14U, P-31U).

Forty-seven wells were purged dry before three casing volumes could be purged. In addition, a significant number of Upper Zone wells purged dry upon removing three casing volumes. Recovery times ranged from less than one hour to more than 24 hours. Samples to be analyzed for volatile organics were collected as soon as possible and generally within 24 hours of purging. Samples for the remainder of the analytical suite were collected as soon as water level recovery was sufficient.

4.0 ANALYTICAL RESULTS

4.1 OVERVIEW

Samples were collected for the following analyses:

SW8240	Volatile Organic Compounds
SW8270	Semivolatiles
E413.2	Oil & Grease (O&G)
E418.1	Total Petroleum Hydrocarbons (TPH)
SW6010	Metals (ICP)
SW7421	Lead (graphite furnace)

For VOC samples from Middle Paluxy and several Upper Paluxy wells, methods E524.2 and SW8015 combined were substituted for SW8240 to obtain a lower detection limit for TCE and other compounds. Samples were generally shipped on the day after collection, arriving at the laboratory on the second day after collection. BC Analytical in Glendale, California was contracted to perform the analyses.

Only limited sampling for metals had been conducted during previous quarterly groundwater monitoring. The widespread occurrence of detectable amounts of lead in samples collected during Round 7 was unexpected. Discussions with the laboratory have led to the conclusion that most of the lead reported is a result of leaching from sediment in the unfiltered samples following the field acid preservation and subsequent laboratory acid digestion. This is discussed further in Section 4.5.2.

Appendix A presents detections of all organic compounds (methods SW8240, SW8270, E413.2, and E418.1). Appendix B presents inorganic detections by method SW6010 with the exception of lead and chromium. Appendix C presents all detections of lead (methods SW6010 and SW7421). Appendix D presents detections of chromium by method SW6010. Appendix E presents total semi-quantified concentrations of tentatively identified compounds detected by method SW8240. The data presented are currently being validated by Quantalex, Inc., Lakewood, Colorado.

4.2 VOLATILE ORGANIC HYDROCARBONS

4.2.1 Overview

No compounds were detected by method SW8015 in any of the samples submitted for analysis. Several tentatively identified compounds were reported as "semi-quantified" in a number of samples analyzed by method SW8240. These compounds were detected in samples from Fuel Saturation Area No. 1 (FSA No. 1), Fuel Saturation Area No. 3 (FSA No. 3), and other fuel-contaminated areas. These compounds were tentatively identified as methylated benzenes (probably propylbenzene and butylbenzene), C6- and C7-ring hydrocarbons, and various C4- to C12-alkanes. Appendix E presents the total semi-quantified tentatively identified compounds.

Table 2 presents all Round 7 detections of TCE and related compounds. Plate 2 is an isoconcentration map of TCE concentrations in samples from Upper Zone wells. Table 3 presents concentrations of TCE and related compounds from Round 7 compared to results from previous Jacobs quarterly sampling rounds. Changes in TCE concentrations appear to be fairly gradual, with two main exceptions. One exception is Upper Zone well F-218, immediately adjacent to the assembly building. Concentrations

TABLE 2
TCE DEGRADATION PRODUCT CONCENTRATIONS
SEVENTH ROUND – MAY/JUNE 1993
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	TRICHLOROETHENE (ug/l)	CIS-1,2-DICHLOROETHENE (ug/l)	TRANS-1,2-DICHLOROETHENE (ug/l)	VINYL CHLORIDE (ug/l)
UPPER ZONE WELLS				
DOCK-17		1.3		
F-203	160.00	27.00	5.90	7.60
F-207	23.00			
F-211	840.00			
F-214	170,000.00	18,000.00		
F-215	730.00			
F-216	31.00	17.00		
F-217	280.00	1,100.00		350.00
F-218	8,700.00	940.00		
F-219	35.00			
F-220	160,000.00	1,500.00		
HM-10	3,400.00			
HM-11	190.00	130.00		
HM-15	420.00			
HM-16	810.00	17.00		
HM-17	3,300.00	71.00		
HM-19		1.20		
HM-20	540.00			
HM-21		1,200.00		2,100.00
HM-24	4.00			
HM-25		19.00		
HM-26	42.00	5.30		
HM-27	300.00	130.00		
HM-28	900.00	160.00		
HM-29	760.00			
HM-30	150.00			
HM-31	2,500.00	350.00		
HM-36	6.20	3.40		
HM-37	300.00	90.00		
HM-38	111,000.00	95,000.00	1,300.00	
HM-39	1.60	24.00	1.40	
HM-41	15.00			
HM-47	2,900.00	380.00		
HM-48	1.30			
HM-49	1.50	4.70		
HM-50	28.00	530.00		270.00
HM-51	180,000.00	89,000.00		
HM-52	300.00			
HM-54	310.00			
HM-55	1.00			

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TABLE 2
TCE DEGRADATION PRODUCT CONCENTRATIONS
SEVENTH ROUND – MAY/JUNE 1993
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	TRICHLOROETHENE (ug/l)	CIS-1,2-DICHLOROETHENE (ug/l)	TRANS-1,2-DICHLOROETHENE (ug/l)	VINYL CHLORIDE (ug/l)
UPPER ZONE WELLS (CONT.)				
HM-56	1.30			
HM-60	19.00			
HM-62	7.70			
HM-63	180.00	660.00	9.40	36.00
HM-64	10.00			
HM-66	7.50			
HM-68	22.00			
HM-69	5.00			
HM-70	1,100.00			
HM-71	370.00	14.00		
HM-79	20.00	1.90		
HM-82	190.00	18.00		
HM-86	850.00	25.00		
HM-87	370.00	28.00		
HM-88	50,000.00			
HM-89	9,000.00	360.00		
HM-90	5.90	1.70		
HM-91	450.00	15.00		
HM-94	8,500.00	990.00		
HM-95	1,700.00	120.00		
HM-96	1,100.00	21.00		
HM-97	330.00	12.00		
HM-99	2,600.00	600.00		
HM-103	3,100.00	650.00		
HM-110	130.00	13.00		
HM-111	280.00	67.00		
HM-112	8,400.00	240.00		
HM-113	320.00	14.00		
HM-114	1,300.00	46.00		
HM-115	2,400.00	220.00		
HM-116	600.00	88.00		
HM-117	560.00	17.00		
HM-118	160.00			
HM-119	100.00	2.60		
HM-121	520.00			
HM-122	160.00	270.00	66.00	24.00
HM-123	930.00	490.00	30.00	
HM-124	1.00			
HM-125	120.00	13.00		
HM-126	870.00	39.00		

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TABLE 2
TCE DEGRADATION PRODUCT CONCENTRATIONS
SEVENTH ROUND – MAY/JUNE 1993
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	TRICHLOROETHENE (ug/l)	CIS-1,2-DICHLOROETHENE (ug/l)	TRANS-1,2-DICHLOROETHENE (ug/l)	VINYL CHLORIDE (ug/l)
UPPER ZONE WELLS (CONT.)				
W-128L	13.00			
W-129	58.00	54.00	1.60	
W-130	490,000.00	48,000.00		
W-131U		1.50		
W-133U		12.00		
W-137	200.00	46.00		
W-139L		2.80		
W-144	53.00			
W-145	7.20			
W-146	6.30			
W-149	15,000.00	1,000.00		
W-150L	3,500.00	86.00		
W-150U	86,000.00			
W-151	500.00	25.00		
W-153	2,800.00	270.00		
W-154	2,200.00			
W-155	2.10			
W-156	6,400.00	170.00		
W-158	16,000.00			
W-159	43,000.00			
W-160	970.00	240.00	8.00	47.00
W-162	2.90			
W-163				160.00
CARSWELL AFB UPPER ZONE WELLS				
LF04-02	4,400.00	330.00		
LF04-04	660.00	330.00		
LF04-4C	16.00	13.00	2.20	3.20
LF04-4G	2,400.00	260.00		
LF05-01	1,100.00	150.00		110.00
LF05-02	100.00	180.00	21.00	14.00
LF05-14	1,400.00	340.00		
LF05-18	1,800.00	360.00	34.00	
LF05-19	37.00	17.00		
LF05-5A	340.00	140.00		
LF05-5B	29.00	690.00	22.00	97.00
LF05-5E	140.00	78.00	2.90	
FT08-11A	3.30	2.40		
FT08-11B	44.00	33.00	2.60	
FT09-12B	9.00	7.90		

TABLE 2
TCE DEGRADATION PRODUCT CONCENTRATIONS
SEVENTH ROUND – MAY/JUNE 1993
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	TRICHLOROETHENE (ug/l)	CIS-1,2-DICHLOROETHENE (ug/l)	TRANS-1,2-DICHLOROETHENE (ug/l)	VINYL CHLORIDE (ug/l)
PALUXY UPPER SAND WELLS				
P-8US	3,000.00	140.00		
P-9US	1,000.00	13.00		
P-14US	130.00	20.00	1.10	
P-15US	1,600.00	450.00		
P-16US	750.00	300.00		
P-19US	820,000.00	55,000.00		
UPPER PALUXY WELLS				
P-5UN		29.00		27.00
P-8UN		3.60		
P-22U	51.00	200.00		21.00
P-24U		5.80		
P-27U		580.00		26.00
MIDDLE PALUXY WELLS				
P-5M		1.50		
P-6M		4.10		
P-7M		1.80		
P-22M	1.70	0.53		
SURFACE WATER LOCATIONS				
SW-08		13.00		
EGL-1	3.10	1.50		
EGL-2	42.00	11.00		
LF05-S5	23.00	5.80		
LF05-S6	56.00	18.00		
LF05-S7	270.00	150.00		

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TABLE 3
COMPARISON OF SELECTED ANALYTICAL RESULTS
FIRST THROUGH SEVENTH SAMPLING ROUNDS
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	ANALYTE	ROUND 1	ROUND 2	ROUND 3	ROUND 4	ROUND 5	ROUND 6	ROUND 7
UPPER ZONE WELLS								
F-218	TCE	62000 B				180000		8700
	DCE12C	630 J				nd		940
	DCE12T	nd				nd		nd
	VC	nd				nd		nd
HM-24	TCE			5		2.7		nd
	DCE12C			nd		nd		nd
	DCE12T			nd		nd		nd
	VC			nd		nd		nd
HM-30	TCE			48		410		150
	DCE12C			nd		nd		nd
	DCE12T			nd		nd		nd
	VC			nd		nd		nd
HM-31	TCE			2400		890		2500
	DCE12C			430		210		350
	DCE12T			22		nd		nd
	VC			nd		nd		nd
HM-48	TCE	30 B						1.3
	DCE12C	0.7 J						nd
	DCE12T	nd						nd
	VC	nd						nd
HM-99	TCE	720				310		2600
	DCE12C	440				80		600
	DCE12T	2				nd		nd
	VC	nd				nd		nd
HM-103	TCE					3300 / 3100		3100
	DCE12C					670 / 640		650
	DCE12T					nd		nd
	VC					nd		nd
HM-104	TCE			2		nd		nd
	DCE12C			nd		nd		nd
	DCE12T			nd		nd		nd
	VC			nd		nd		nd
HM-110	TCE				860	770		130
	DCE12C				100	87		13
	DCE12T				nd	nd		nd
	VC				nd	nd		nd
HM-112	TCE				7200			8400
	DCE12C				310			240
	DCE12T				nd			nd
	VC				nd			nd
HM-114	TCE					1500		1300
	DCE12C					59		46
	DCE12T					nd		nd
	VC					nd		nd
HM-116	TCE					560 / 560		600
	DCE12C					74 / 73		88
	DCE12T					nd		nd
	VC					nd		nd
HM-118	TCE		180					160 / 160
	DCE12C		3					2.1 / nd
	DCE12T		nd					nd
	VC		nd					nd
HM-119	TCE		110			94		120 / 100
	DCE12C		3			2.5		2.6 / 3.2
	DCE12T		nd			nd		nd
	VC		nd			nd		nd

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TABLE 3
COMPARISON OF SELECTED ANALYTICAL RESULTS
FIRST THROUGH SEVENTH SAMPLING ROUNDS
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	ANALYTE	ROUND 1	ROUND 2	ROUND 3	ROUND 4	ROUND 5	ROUND 6	ROUND 7
UPPER ZONE WELLS (CONT.)								
HM-121	TCE			470				520 / 550
	DCE12C			9				nd
	DCE12T			nd				nd
	VC			nd				nd
HM-123	TCE	2000						930 / 710
	DCE12C	230						490 / 400
	DCE12T	13						30 / 25
	VC	7						nd
HM-125	TCE		94			76		120
	DCE12C		3			4.8		nd
	DCE12T		nd			nd		nd
	VC		nd			nd		nd
W-151	TCE					480		500
	DCE12C					28		25
	DCE12T					nd		nd
	VC					nd		nd
W-152	TCE					2.2		nd
	DCE12C					nd		nd
	DCE12T					nd		nd
	VC					nd		nd
CARSWELL AFB UPPER ZONE WELLS								
FT08-11A	TCE		nd					3.3
	DCE12C		nd					2.4
	DCE12T		nd					nd
	VC		nd					nd
FT08-11B	TCE		81					44
	DCE12C		55					33
	DCE12T		3					2.6
	VC		nd					nd
LF04-01	TCE		3					nd
	DCE12C		2					nd
	DCE12T		nd					nd
	VC		nd					nd
LF04-02	TCE	3800	2400					4400
	DCE12C	390	570					330
	DCE12T	15	nd					nd
	VC	3	nd					nd
LF04-04	TCE	1800	1600					660
	DCE12C	350	640					330
	DCE12T	11	14					nd
	VC	3	nd					nd
LF05-01	TCE	880						1100
	DCE12C	110						150
	DCE12T	10						nd
	VC	15						110
LF05-19	TCE		500			45		37
	DCE12C		240			18		17
	DCE12T		nd			nd		nd
	VC		nd			nd		nd
LF05-5A	TCE	1600	550					340
	DCE12C	600	190					140
	DCE12T	16	nd					nd
	VC	7	nd					nd

TABLE 3
COMPARISON OF SELECTED ANALYTICAL RESULTS
FIRST THROUGH SEVENTH SAMPLING ROUNDS
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	ANALYTE	ROUND 1	ROUND 2	ROUND 3	ROUND 4	ROUND 5	ROUND 6	ROUND 7
PALUXY UPPER SAND WELLS								
P-8US	TCE		200				1900	3000
	DCE12C		32				150	140
	DCE12T		1				nd	nd
	VC		nd				nd	nd
P-9US	TCE	300 B	400		200 / 240		240 / 200	1000
	DCE12C	3 J	nd		nd		3.2 / nd	13
	DCE12T	nd	nd		nd		nd	nd
	VC	nd	nd		nd		nd	nd
P-14US	TCE		2100		230		200	130
	DCE12C		160		44		30	20
	DCE12T		nd		nd		1.4	1.1
	VC		nd		nd		nd	nd
P-15US	TCE		430					1600
	DCE12C		130					450
	DCE12T		nd					nd
	VC		nd					nd
P-16US	TCE	510	1100		1000		950	750
	DCE12C	290	450		510		340	300
	DCE12T	2	nd		nd		nd	nd
	VC	nd	nd		nd		nd	nd
P-17US	TCE		nd				1.4	nd
	DCE12C		nd				nd	nd
	DCE12T		nd				nd	nd
	VC		nd				nd	nd
P-19US	TCE		8400	8900	8500		11000	820000
	DCE12C		620	680	870		930	55000
	DCE12T		nd	nd	nd		nd	nd
	VC		nd	nd	nd		nd	nd
UPPER PALUXY WELLS								
P-8UN	TCE	30					51	nd
	DCE12C	4					6.2	3.6
	DCE12T	nd					nd	nd
	VC	nd					nd	nd
P-9UN	TCE	0.1 B			nd		nd	nd
	DCE12C	nd			nd		nd	nd
	DCE12T	nd			nd		nd	nd
	VC	nd			nd		nd	nd
P-13U	TCE				nd		1.5	nd
	DCE12C				nd		nd	nd
	DCE12T				nd		nd	nd
	VC				nd		nd	nd
P-15U	TCE	0.4 JB			nd		nd	nd
	DCE12C	nd			nd		nd	nd
	DCE12T	nd			nd		nd	nd
	VC	nd			nd		nd	nd
P-24U	TCE				nd		nd	nd
	DCE12C				2		4.8	5.8
	DCE12T				nd		nd	nd
	VC				nd		nd	nd
P-27U	TCE				nd		42	nd
	DCE12C				680		nd	nd
	DCE12T				nd		nd	nd
	VC				nd		nd	nd

TABLE 3
COMPARISON OF SELECTED ANALYTICAL RESULTS
FIRST THROUGH SEVENTH SAMPLING ROUNDS
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	ANALYTE	ROUND 1	ROUND 2	ROUND 3	ROUND 4	ROUND 5	ROUND 6	ROUND 7
MIDDLE PALUXY WELLS								
P-5M	TCE	nd	nd					nd
	DCE12C	0.9 J	2					1.5
	DCE12T	nd	nd					nd
	VC	0.7 J	nd					nd
P-6M	TCE	0.2 J	nd	nd			nd	nd
	DCE12C	11	10	14			9.1	nd
	DCE12T	nd	nd	nd			nd	nd
	VC	5	6.3	3			2.8	nd
P-10M	TCE	0.1 JB		nd		nd		nd
	DCE12C	nd		nd		nd		nd
	DCE12T	nd		nd		nd		nd
	VC	nd		nd		nd		nd
P-22M	TCE	2	1.5	2			1.9	1.7 / 1.8
	DCE12C	4	3	3			nd	.53 / .54
	DCE12T	nd	nd	nd			nd	nd
	VC	nd	nd	nd			nd	nd
P-24M	TCE	0.6 J						nd
	DCE12C	nd						nd
	DCE12T	nd						nd
	VC	nd						nd
SURFACE WATER LOCATIONS								
SW-08	TCE	nd	6	nd	nd	nd	nd	nd
	DCE12C	150	180	28	18	27	19	13
	DCE12T	3	nd	nd	nd	nd	nd	nd
	VC	17	nd	nd	nd	nd	2.1	nd
C-5	TCE			nd	nd	nd	nd	nd
	DCE12C			4	1	2.3	12 / 13	nd
	DCE12T			nd	nd	nd	nd	nd
	VC			nd	nd	nd	1 / nd	nd
EGL-1	TCE	0.6 J	nd	.1	nd	1.6	nd	3.1
	DCE12C	0.2 J	nd	nd	nd	nd	nd	1.5
	DCE12T	nd	nd	nd	nd	nd	nd	nd
	VC	nd	nd	nd	nd	nd	nd	nd
EGL-2	TCE		13	9	16	27	24	42
	DCE12C		6.4	7	7	5.3	6.1	11
	DCE12T		nd	nd	nd	nd	nd	nd
	VC		nd	nd	nd	nd	nd	nd
LF05-S5	TCE				15			23
	DCE12C				4			5.8
	DCE12T				nd			nd
	VC				nd			nd
LF05-S6	TCE			62	64	54	52	56
	DCE12C			26	29	19	18	18
	DCE12T			1	nd	nd	nd	nd
	VC			nd	nd	nd	nd	nd
LF05-S7	TCE		880	500		460		270
	DCE12C		380	250		190		150
	DCE12T		7	6		nd		nd
	VC		nd	nd		nd		nd

Notes: Results shown are for locations sampled during the seventh sampling round and at least one previous round that contained detectable TCE, DCE12C, DCE12T, or VC in at least one of the rounds. Where no values are shown, the location was not sampled during that round. Data shown are not validated. All results shown are in ug/L.

nd = not detected
J = lab estimated value, < detection limit
B = compound also found in associated blank

TCE = trichloroethene
DCE12C = cis-1,2-dichloroethene
DCE12T = trans-1,2-dichloroethene
VC = vinyl chloride

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of TCE decreased from 180,000 micrograms/liter (μg/L) in the Round 5 (October 1992) to 8700 μg/L in Round 7 (June 1993). The second exception is Paluxy Upper Sand well P-19US on the flightline, where concentrations increased from 11,000 μg/L in Round 6 (January 1993) to the highest concentration detected at any location during Round 7 (820,000 μg/L). Results from these two wells are further discussed in Sections 4.2.2 and 4.2.6.

An important point to note when interpreting analytical results is the dilution of samples by the laboratory. VOC samples with high levels of contaminants were diluted up to 1000 times to more accurately measure the highest concentration. The dilution raises the detection limits for all other compounds. For example, a 100X dilution would raise detection limits of method SW8240 from 1.0 μg/L to 100 μg/L. Therefore, some compounds with lower concentrations may not be detected in the diluted sample.

Methylene chloride and methyl ethyl ketone (MEK) were detected in a number of samples in concentrations generally less than 10.0 μg/L, and are believed to result from laboratory contamination, although MEK has occasionally been detected in the ASTM Type II water used by Jacobs field personnel for preparing field blanks and decontaminating equipment.

4.2.2 Upper Zone - East Side

The east side includes a total of 59 Upper Zone wells: two wells south of the assembly building (HM-31, HM-104), three wells inside the assembly building (W-158, W-159, and W-160), and all F-nnn, HM-nnn and W-nnn wells east of the assembly building and in the flightline. Samples from 43 of these wells contained TCE-related compounds (TCE, cis-1,2-DCE, trans-1,2-DCE, or vinyl chloride). Several samples also contained low concentrations of other solvents or BETX compounds.

The greatest change in TCE concentration in an Upper Zone well was a decrease from 180,000 μg/L in F-218 from Round 5 (October 1992) to 8700 μg/L in Round 7 (June 1993). The F-218 result was investigated for possible field or laboratory errors, but none were discovered. It is expected that variations of this magnitude are typical for wells in close proximity to the TCE source. Continued sampling of F-218 in the next two Jacobs sampling rounds is, however, recommended. Another large variation in TCE concentrations occurred in samples from HM-88. TCE was measured at 50,000 μg/L in the Round 7 sample from HM-88 which is twice as high as that detected in a sample collected 11 days earlier by IT Corporation (24,000 μg/L, unpublished analytical results). The variation may be in part the result of differences in purging and sampling techniques.

Tetrachloroethene (PCE) was detected in wells HM-59, HM-71, HM-79, and HM-97, all located east of the north end of the assembly building. The highest reported value was 77 μg/L in HM-71. In addition to TCE-related compounds, 26 μg/L trichlorofluoromethane was detected in the sample from HM-91.

4.2.3 Upper Zone - Carswell AFB

Twenty wells were sampled in the Carswell AFB golf course area and around the landfill and fire training areas. Well IDs included FT08-nn, FT09-nn, LF04-nn, and LF05-nn. In general, concentrations of VOCs in these wells have decreased since Radian's sampling in 1990 (Radian, 1991) as shown in Table 4. Concentrations have increased in four of the wells.

Results indicate that cis-1,2-DCE constitutes a significant share of the total contamination at this end of the plume (Table 3). TCE/cis-1,2-DCE ratios in the Carswell AFB wells sampled during Round 7 range from 0.04 (LF05-5B) to 13.3 (LF04-02), with a mean of 3.5 (15 wells). In contrast, TCE/cis-1,2-DCE ratios in samples from Upper Zone flightline wells between Carswell AFB and AFP4 range from 4.2 (HM-111) to 52.4 (HM-96), with a mean of 21.2 (20 wells).

4.2.4 Upper Zone - West Side

The west side includes the area west of the assembly building and bounded by FSA No. 2 on the north, Clifford Avenue on the south, and the AFP4 property boundary and Meandering Road Creek on the west. Both solvent and fuel compounds were reported in relatively large concentrations at several sites on the west side. Most significant were BETX compounds in samples from FDTA No. 5 (HM-25, W-133L, W-133U) and FSA No. 1, and solvents in wells at FDTA No. 2 and Landfill 3. The solvent suite in wells HM-51 (FDTA No. 2), HM-38, and W-130 (both in Landfill 3) consisted of TCE, cis-1,2-DCE, toluene, methylene chloride, 1,2-dichloroethane (1,2-DCA). The suite in Landfill 3 well F-214 was similar, although methylene chloride and 1,2-DCA were not detected. The laboratory performed a 5000X dilution on this sample and it is possible that one or both compounds were diluted beyond detection. Contaminants at these sites appear to be relatively confined spatially, as indicated by the fact that they are often not detected or are detected at much lower concentrations in nearby wells.

No VOC compounds were detected in Upper Zone boundary wells along Clifford Avenue and the AFP4 boundary southwest of Landfill 3. Other wells on the west side contained lesser concentrations of solvents and fuels. In 34 Upper Zone wells on the west side, no VOC compounds were detected.

4.2.5 Upper Zone - North Side

The north side includes the area north of the assembly building bounded by Meandering Road Creek, Lake Worth, and the flightline. With the exception of FSA No. 3, well density is low and the wells are clean. The only VOC detected was 1.3 μg/L cis-1,2-DCE in the sample from well Dock-17.

In FSA No. 3, Upper Zone groundwater was generally free of detectable SW8240 compounds, despite the fact that most wells had strong fuel odors and well FSA3-2 had approximately 2 feet of fuel floating on the water in the well bore. Most of the wells, as in other fuel-contaminated areas, did contain from 30 to 1040 μg/L of tentatively identified compounds (Appendix E). These have been described by the laboratory as methylated benzenes, and normal- and cyclo-alkanes in the C4 to C12 range. Eight of the 16 wells in FSA No. 3 went dry during purging, and it is possible that low transmissivity has inhibited mixing between the fuel and groundwater.

4.2.6 Paluxy Upper Sand and Upper Paluxy

Figure 1 presents concentrations of TCE in Paluxy Upper Sand wells (P-nnUS). Concentrations of TCE and DCE isomers in Paluxy Upper Sand wells were in the same general range as detected during the six previous Jacobs sampling rounds. During that time, the wells have not shown clear trends as a group, although individual well trends exist such as increases in P-8US and decreases in P-14US (Table 2).

TABLE 4
COMPARISON OF TCE RESULTS FROM CARSWELL WELLS
COMPREHENSIVE GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	RADIAN SPRING 1990[1]	JACOBS JAN. 1992[2]	JACOBS MAY 1993
FT08-11A	nd	nd	3.3
FT08-11B	35.0	81.0	44.0
FT09-12A	0.6	–	nd
FT09-12B	83.0	–	9.0
LF04-01	1.7	3.0	nd
LF04-02	4000.0	2400.0	4400.0
LF04-04	2700.0	1600.0	660.0
LF04-4A	nd	–	nd
LF04-4B	nd	–	nd
LF04-4C	17.0	–	16.0
LF04-4G	4400.0	–	2400.0
LF04-10	0.7	–	nd
LF05-01	2700.0	–	1100.0
LF05-02	nd	nd	100.0
LF05-5A	1200.0	550.0	340.0
LF05-5B	48.0	–	29.0
LF05-5E	1300.0	–	140.0
LF05-14	2000.0	–	1400.0
LF05-18	1800.0	–	1800.0
LF05-19	1300.0	500.0	37.0

Notes: "–" = not sampled
All results shown are in µg/l

1) Radian, 1991
2) Jacobs, 1992a

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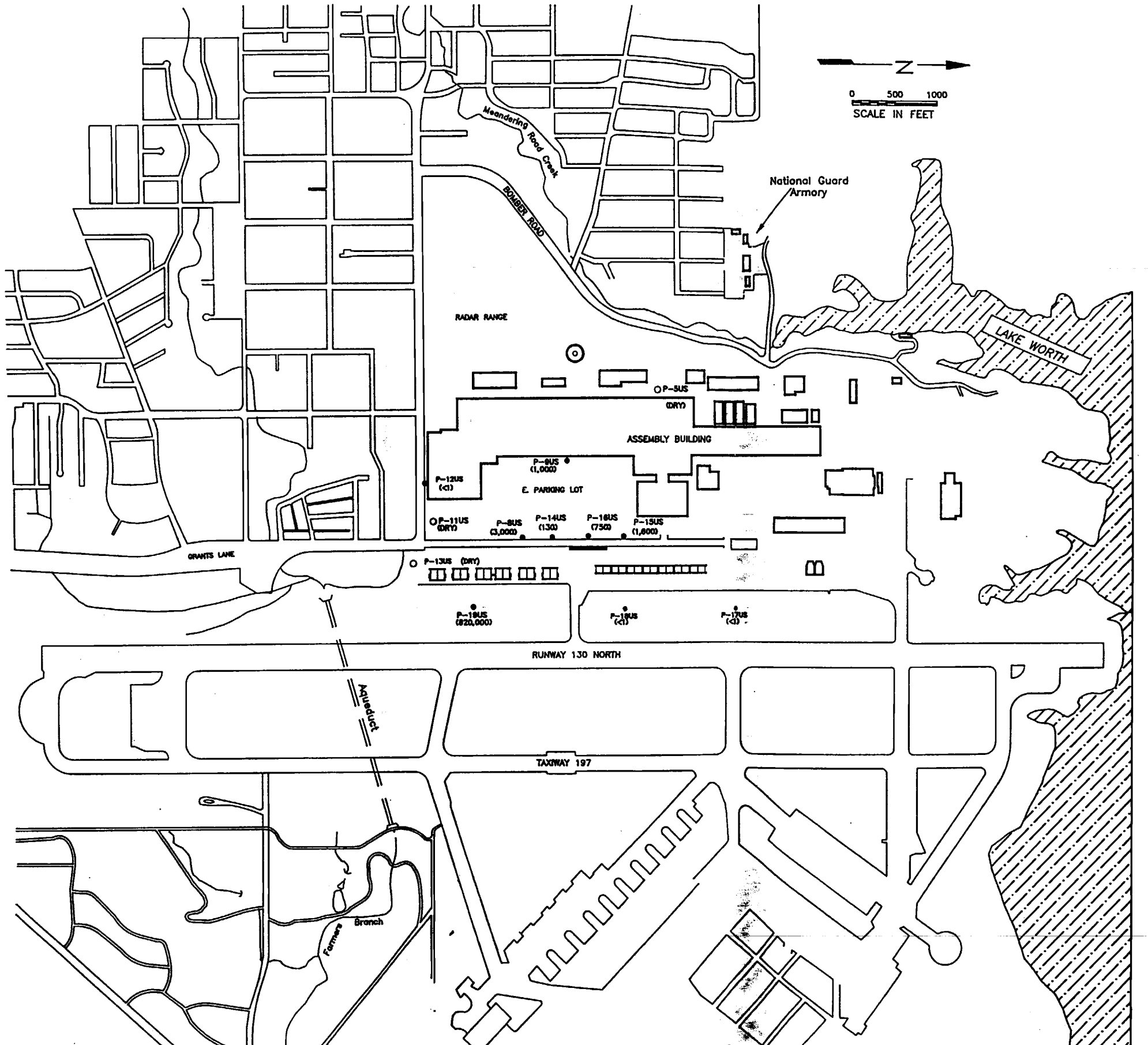

EXPLANATION

P-9US ● (1000) PALUXY UPPER SAND MONITORING WELL SAMPLED IN ROUND 7, MAY/JUNE 1993

TRICHLOROETHENE CONCENTRATION IN MICROGRAMS PER LITER

○ PROPOSED LOCATION THAT WAS NOT SAMPLED, WELL WAS DRY.

U.S. Air Force Plant 4 and
Carswell Air Force Base
Fort Worth, Texas

FIGURE 1

TRICHLOROETHENE CONCENTRATION IN PALUXY UPPER SAND

JACOBS ENGINEERING GROUP INC.

The laboratory reported 820,000 µg/L TCE and 55,000 µg/L cis-1,2-DCE for the sample from Upper Sand well P-19US. Concentrations of TCE detected have ranged from 8400 µg/L to 11,000 µg/L in previous Jacobs sampling rounds as shown in Table 2. The source of the contamination is not clear. The well is located approximately 400 yards south of the currently-defined window area and 400 yards east of the assembly building. Samples from nearby Upper Zone wells (HM-110, HM-111, HM-112) contain a maximum of 8400 µg/L TCE (HM-112). A review of field and lab procedures did not reveal any problems.

Contamination detected in samples from Upper Paluxy wells generally consisted of TCE degradation products, primarily cis-1,2-DCE. Cis-1,2-DCE values ranged from 3.6 µg/L in P-8UN to 580 µg/L in P-27U. P-8UN also contained 28 µg/L 1,1,1-trichloroethane (1,1,1-TCA). Results for individual wells are presented in Table 3 and Appendix A.

4.2.7 Middle Paluxy

VOC compounds were not detected in any of the seven City of White Settlement production wells sampled, nor in seven of the 16 Middle Paluxy monitoring wells on AFP4 property. Low levels of TCE-related compounds and toluene were detected in the other nine wells, generally at or near the 0.5 µg/L detection limits of method E524.2. Carbon tetrachloride was detected in the P-20M duplicate (0.64 µg/L) and 1,1,2-TCA was detected in P-29M (0.53 µg/L).

4.2.8 Surface Locations

Of the three sample locations along Meandering Road Creek, only SW-08 contained VOCs (13 µg/L cis-1,2-DCE). The methylene chloride reported in the sample from C-5 is interpreted as a laboratory contaminant.

All five locations along Farmers Branch contained TCE and cis-1,2-DCE. Concentrations at LF05-S7 have steadily decreased from 800 µg/L TCE and 380 µg/L cis-1,2-DCE in Round 2 (January 1992) to 270 µg/L TCE and 150 µg/L cis-1,2-DCE in Round 7. Concentrations at EGL-1 and EGL-2 have generally increased (Table 2). Groundwater with higher TCE concentrations may be entering the aqueduct as well as seeping into surface water upstream from EGL-1. Seasonal flow variations may also be affecting contaminant concentrations.

4.3 SEMIVOLATILES

Samples collected from all locations during Round 7 were analyzed for semivolatile organics by method SW8270. Bis-2-(ethylhexyl)phthalate was reported in 32 samples, ranging from 7.0 µg/L to 24 µg/L. Approximately 30% of these data are invalid because of laboratory blank contamination. Other values in this range are also likely caused by field or laboratory contamination. Three values, however, cannot be discounted: 280 µg/L in HM-107 (FSA No. 3), and 73 µg/L and 75 µg/L in the sample from P-12M and its field duplicate, respectively. The source of contamination for HM-107 is not clear. The source of contamination for P-12M may be from surface runoff which can enter the conductor casing and flow relatively unimpeded to the filter pack surrounding the well screen because of poor construction.

1,2-Dichlorobenzene and 1,4-dichlorobenzene were reported in samples from four Upper Zone wells in the vicinity of FDTA No. 5 at concentrations of 160 to 1100 µg/L, and from six Upper Zone wells in the West Parking Lot and Landfill 3 ranging from 7.1 to 4500 µg/L.

Naphthalene and 2-methylnaphthalene were reported in samples from FSA No. 1, FSA No. 3, and other fuel-contaminated areas. Several other semivolatile compounds occurred in lower concentrations in fuel-contaminated areas and other widely dispersed Upper Zone locations. Concentrations were generally less than 50 μg/L. Phenol was detected in the sample from Middle Paluxy well P-11M at 7 μg/L. No semivolatile compounds were detected in any of the City of White Settlement wells.

4.4 OIL & GREASE - TOTAL PETROLEUM HYDROCARBONS

Detections of O&G and TPH compounds were generally confined to samples from Upper Zone wells at FSA No. 1, FSA No. 3, and other fuel-contaminated areas with several exceptions. Upper Paluxy well P-6U contained 26 mg/L O&G compounds and 12 mg/L TPH compounds. An unidentified black material was observed in the bottom of this well during sampling. The sample from P-12M and the P-12M field duplicate both contained O&G and TPH compounds in concentrations ranging from 1.4 to 3.2 mg/L. This contamination may be related to surface runoff infiltration as discussed in Section 4.3. A number of other wells, including Middle Paluxy wells P-24M, P-29M, and P-30M, contained O&G and TPH concentrations at or near the 0.5 mg/L detection limits (Appendix A).

4.5 METALS

4.5.1 Overview

All samples collected during Round 7 were analyzed by method SW6010 (ICP metals screen) and SW7421 (lead by graphite furnace). The addition of method SW7421 provides a detection limit of 0.002 mg/L for lead. Samples were unfiltered and preserved with nitric acid. The SW6010 sample undergoes hydrochloric acid digestion during the SW3005 preparation for analysis.

Lead was detected in about 35% of the samples submitted, including all but two Middle Paluxy wells. Some of the these and other metals results may include compounds leached from sediment or colloidal material collected with the samples in the field.

In samples where lead was detected by both SW6010 and SW7421, the result reported by method SW6010 was approximately 1.5 times higher than the result by SW7421 for Upper Zone wells (mean of 9 samples) and approximately 5.5 times higher for Paluxy wells (mean of 15 samples). This may indicate the presence of lead bound to carbonate sediment in the Paluxy aquifer that is particularly susceptible to the acid digestion used with method SW3005/SW6010.

Lead was not detected by either method in either the surface location samples or samples from the City of White Settlement wells, which are pumped continuously and are probably relatively sediment-free.

4.5.2 Lead

As indicated above, the lead values presented in Appendix C are believed to represent, for the most part, background levels leached from suspended sediment collected with the groundwater samples. In Table 4.3.13 of the draft final RI Report (CNG, 1992), background levels for lead in soils at AFP4 is listed as 61 mg/kg. Background levels were not listed for the Paluxy formation, however, sediments in Lake Worth, a source of recharge for the Middle Paluxy aquifer, contained lead in concentrations of up to 164

mg/kg. If SW7421 values below 0.07 are considered as background, two wells remain as potentially contaminated by lead based on SW7421 results: P-6U with 0.1300 mg/L, and HM-65 with 0.1000 mg/L. No other contaminants were reported at HM-65. Fuel contamination and an unidentified black sediment were also present at P-6U. Lead results for all locations are listed in Appendix C.

4.5.3 Chromium

Detections of total chromium by method SW6010 are listed in Appendix D. Results from 18 Upper Zone wells ranged from 0.038 mg/L (W-153) to 1.1 mg/L (W-154). Chromium was also detected in Paluxy Upper Sand well P-19US at 0.06 mg/L. Areas of concentration include the East Parking Lot and flightline area, the area around FSA No. 1 and Building 14, and the vicinity of the "chrome pits" at the southwest corner of the assembly building. Chromium was also detected in several other scattered wells.

4.5.4 Other Metals

Other metals detected by method SW6010 at levels of concern include arsenic and cadmium which were detected above their respective MCLs of 0.05 mg/L and 0.005 mg/L.

LF05-02	0.0760 mg/L	Arsenic
P-24U	0.0640 mg/L	Arsenic
P-6U	0.0060 mg/L	Cadmium
FT08-11B	0.0130 mg/L	Cadmium
LF05-01	0.0058 mg/L	Cadmium
P-24U	0.0080 mg/L	Cadmium

5.0 RECOMMENDATIONS

5.1 WELL REPAIR

Based on observations during Jacobs site visits, the following recommendations are made for well repairs.

The Triloc pumps should be removed from nine wells to facilitate water level and total depth measurement and sampling of the wells through bailers. The nine wells are:

HM-37	HM-56	HM-63
HM-50	HM-59	HM-103
HM-55	HM-62	HM-105

Middle Paluxy well P-12M should be reconstructed or abandoned to prevent contamination from surface runoff.

The cracked casing in Upper Zone wells HM-74 and HM-113 should be repaired or the wells should be abandoned.

Bolts should be added to the well covers of wells F-207 and F-215.

The discharge spout from the Triloc pump in Upper Zone well HM-77 should be replaced.

Upper Zone well HM-45 could not be sampled because it has been covered by 6 to 10 feet of fill. This well should be located and either reconstructed with a riser to the new surface elevation or properly abandoned.

5.2 FUTURE SAMPLING

Round 8 of Jacobs sampling will be conducted in October 1993. Table 5 summarizes the 32 proposed locations including monitoring wells, production wells, and surface water sampling sites. The locations are shown in Figure 2. The Middle Paluxy wells and surface water locations have been previously approved by the Air Force, EPA, and TWC. The Upper Zone sampling locations proposed have been modified slightly from those previously approved based on Round 7 sampling results. The proposed wells include 13 at the edges of the TCE plume and three within the central portion of the plume. Paluxy Upper Sand well P-19US is also included to confirm the analytical results from Round 7 results (820,000 μg/L TCE).

The proposed analytical suites are also shown in Table 5. Samples from all Middle Paluxy wells, including City of White Settlement production wells, will be analyzed for VOCs using methods E524.2 and SW8015. Samples from all remaining wells and surface water sites will be analyzed for VOCs by method SW8240. Samples from the four wells with the highest expected TCE concentrations will be analyzed for full suites (volatiles, semivolatiles, O&G, TPH, metals, and lead). To confirm Round 7 analytical results, the sample from one additional well will be analyzed for semivolatiles, and samples from two additional wells will be analyzed for O&G. Samples from three wells will be analyzed for lead using method SW7421, to confirm Round 7 results of concentrations of lead greater than or equal to the 0.015 mg/L action level.

TABLE 5
PROPOSED SAMPLING LOCATIONS
EIGHTH ROUND – OCTOBER 1993
GROUNDWATER MONITORING
AIR FORCE PLANT 4

LOCATION	VOC E 524.2	VOC SW 8015	VOC SW 8240	Semi–VO SW 8270	O&G E 413.2	TPH E 418.1	Metals/Lead SW6010/ SW7421
MIDDLE PALUXY WELLS							
P–10M	X	X					
P–11M	X	X		X			SW7421
P–20M	X	X					SW7421
P–25M	X	X					SW7421
P–29M	X	X			X		
P–30M	X	X			X		
WS–2	X	X					
WS–3	X	X					
UPPER ZONE WELLS							
F–218			X	X	X	X	X
F–219			X				
HM–31			X				
HM–69			X				
HM–88			X	X	X	X	X
HM–93			X				
HM–98			X				
HM–104			X				
HM–110			X				
HM–119			X				
HM–120			X				
HM–125			X				
HM–127			X				
W–149			X	X	X	X	X
W–157			X				
LF05–19			X				
PALUXY UPPER SAND WELL							
P–19US			X	X	X	X	X
SURFACE WATER LOCATIONS							
SW–3A			X				
SW–8			X				
C–5			X				
EGL–1			X				
EGL–2			X				
LF05–S6			X				
LF05–S7			X				
TOTALS:	8	8	24	5	6	4	7

Suites: VOC on all wells, E524.2/SW8015 on Middle Paluxy wells.
Full suite on wells within TCE plume (high TCE conc.).
SW7421 (Lead) where lead was detected above the action level.
SW8270 on P–11M where Phenol was detected.
E413.2 on P–29M and P–30M where Oil and Grease was detected.

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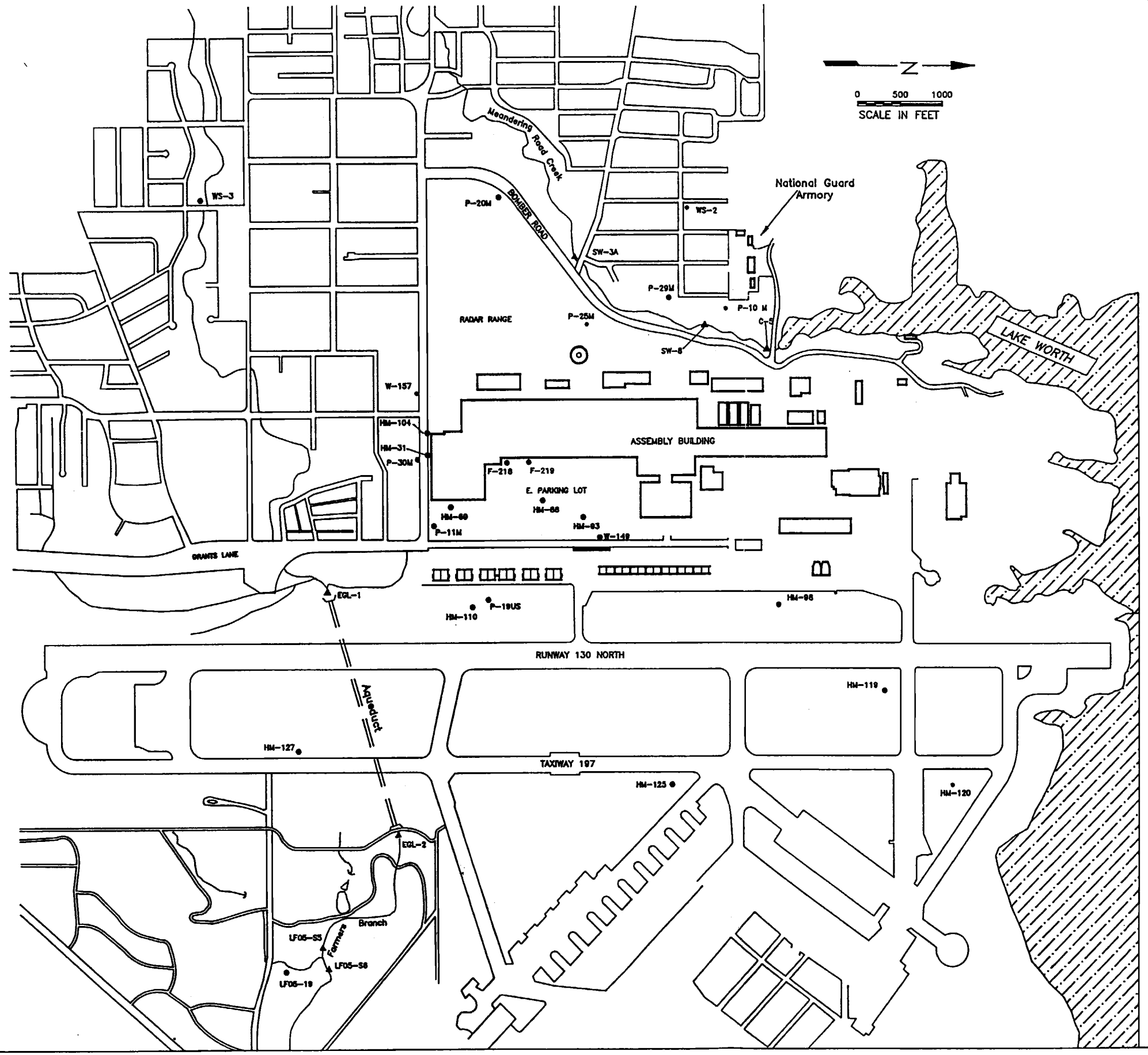

EXPLANATION

- ● MONITORING WELL PROPOSED FOR SAMPLING DURING THE OCTOBER SAMPLING ROUND
- ▲ SURFACE WATER LOCATION PROPOSED FOR SAMPLING DURING THE OCTOBER SAMPLING ROUND

U.S. Air Force Plant 4 and
Carswell Air Force Base
Fort Worth, Texas

FIGURE 2
PROPOSED SAMPLING LOCATIONS
OCTOBER 1993

JACOBS ENGINEERING GROUP INC.

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APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
UPPER ZONE WELLS							
DOCK-17	MW-DOCK17-07	06-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	1.3000	UG/L	1
F-203	MW-F203-07	13-JUN-93	SW8240	BENZENE	26.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	27.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	5.9000	UG/L	1
			SW8240	ETHYLBENZENE	38.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	160.0000	UG/L	1
			SW8240	VINYL CHLORIDE	7.6000	UG/L	1
			SW8240	TOTAL XYLENES	49.0000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	1.1000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.9000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	22.0000	UG/L	1
			SW8270	2-METHYLNAPHTHALENE	16.0000	UG/L	1
			SW8270	NAPHTHALENE	23.0000	UG/L	1
F-203-Dup	MW2-F203-07	13-JUN-93	SW8240	BENZENE	32.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	31.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	6.7000	UG/L	1
			SW8240	ETHYLBENZENE	47.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	190.0000	UG/L	1
			SW8240	VINYL CHLORIDE	9.6000	UG/L	1
			SW8240	TOTAL XYLENES	61.0000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	1.2000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	24.0000	UG/L	1
			SW8270	2-METHYLNAPHTHALENE	7.2000	UG/L	1
			SW8270	NAPHTHALENE	8.1000	UG/L	1
F-204	MW-F204-07	14-JUN-93	E413.2	OIL & GREASE, TOTAL REC	7.5000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	2.4000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	48.0000	UG/L	5
F-207	MW-F207-07	09-JUN-93	SW8240	1,1-DICHLOROETHANE	4.5000	UG/L	1
			SW8240	1,2-DICHLOROETHANE	16.0000	UG/L	1
			SW8240	1,1-DICHLOROETHENE	180.0000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	20.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	23.0000	UG/L	1
F-209	MW-F209-07	11-JUN-93	E413.2	OIL & GREASE, TOTAL REC	1.3000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.9000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	40.0000	UG/L	1
			SW8270	NAPHTHALENE	12.0000	UG/L	1
F-211	MW-F211-07	11-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	840.0000	UG/L	25
F-212	MW-F212-07	13-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
F-214	MW-F214-07	14-JUN-93	SW8240	TOLUENE	39000.0000	UG/L	5000
			SW8240	cis-1,2-DICHLOROETHYLENE	18000.0000	UG/L	5000
			SW8240	TRICHLOROETHYLENE (TCE)	170000.0000	UG/L	5000
			E413.2	OIL & GREASE, TOTAL REC	7.4000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.3000	MG/L	1
			SW8270	1,2-DICHLOROBENZENE	2500.0000	UG/L	20
			SW8270	1,4-DICHLOROBENZENE	390.0000	UG/L	20
F-214-Dup	MW2-F214-07	14-JUN-93	SW8240	TOLUENE	36000.0000	UG/L	5000
			SW8240	cis-1,2-DICHLOROETHYLENE	20000.0000	UG/L	5000
			SW8240	TRICHLOROETHYLENE (TCE)	180000.0000	UG/L	5000
			E413.2	OIL & GREASE, TOTAL REC	13.0000	MG/L	10
			E418.1	PETROLEUM HYDROCARBONS	8.0000	MG/L	10
			SW8270	1,2-DICHLOROBENZENE	4500.0000	UG/L	50
			SW8270	1,4-DICHLOROBENZENE	620.0000	UG/L	50
F-215	MW-F215-07	09-JUN-93	SW8240	1,1-DICHLOROETHENE	39.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	730.0000	UG/L	10
F-216	MW-F216-07	06-JUN-93	SW8240	1,2-DICHLOROETHANE	1.7000	UG/L	1
			SW8240	1,1-DICHLOROETHENE	93.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	17.0000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	4.8000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	31.0000	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	8.8000	UG/L	1
F-216-Dup	MW2-F216-07	06-JUN-93	SW8240	1,1-DICHLOROETHANE	1.1000	UG/L	1
			SW8240	1,2-DICHLOROETHANE	2.5000	UG/L	1
			SW8240	1,1-DICHLOROETHENE	98.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	18.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	1.1000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	5.5000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	42.0000	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	11.0000	UG/L	1
F-217	MW-F217-07	06-JUN-93	SW8240	1,1-DICHLOROETHENE	45.0000	UG/L	10
			SW8240	cis-1,2-DICHLOROETHYLENE	1100.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	280.0000	UG/L	10
			SW8240	VINYL CHLORIDE	350.0000	UG/L	10
			SW8270	1,2-DICHLOROBENZENE	15.0000	UG/L	1
F-218	MW-F218-07	13-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	940.0000	UG/L	500
			SW8240	TRICHLOROETHYLENE (TCE)	8700.0000	UG/L	500
			SW8270	4-CHLORO-3-METHYLPHENOL	32.0000	UG/L	5
F-219	MW-F219-07	10-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	35.0000	UG/L	1

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
F-220	MW-F220-07	03-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	1500.0000	UG/L	1000
			SW8240	TRICHLOROETHYLENE (TCE)	160000.0000	UG/L	1000
			E413.2	OIL & GREASE, TOTAL REC	0.9000	MG/L	1
FSA-3-01	MW-FSA31-07	09-JUN-93	E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	11.0000	UG/L	1
FSA-3-02	MW-FSA32-07	13-JUN-93	E413.2	OIL & GREASE, TOTAL REC	30.0000	MG/L	20
			E418.1	PETROLEUM HYDROCARBONS	14.0000	MG/L	20
			SW8270	2-METHYLNAPHTHALENE	270.0000	UG/L	20
FSA-3-06	MW-FSA36-07	08-JUN-93	E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	8.3000	UG/L	1
FSA-3-07	MW-FSA37-07	08-JUN-93	E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.6000	MG/L	1
FSA-3-10	MW-FSA310-07	09-JUN-93	E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	6.6000	UG/L	1
FSA-3-12	MW-FSA312-07	06-JUN-93	SW8240	BENZENE	9.2000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	8.5000	UG/L	1
FSA-3-14	MW-FSA314-07	06-JUN-93	E413.2	OIL & GREASE, TOTAL REC	1.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.1000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	71.0000	UG/L	1
			SW8270	NAPHTHALENE	21.0000	UG/L	1
FSA-3-15	MW-FSA315-07	07-JUN-93	E413.2	OIL & GREASE, TOTAL REC	1.2000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.9000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	6.1000	UG/L	1
HM-5	MW-HM5-07	06-MAY-93	SW8240	METHYLENE CHLORIDE	2.3000	UG/L	1
HM-7	MW-HM7-07	06-JUN-93	SW8240	TOLUENE	48.0000	UG/L	10
			SW8240	CHLOROBENZENE	1100.0000	UG/L	10
			SW8240	ETHYLBENZENE	450.0000	UG/L	10
			SW8240	TOTAL XYLENES	590.0000	UG/L	10
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
			SW8270	1,2-DICHLOROBENZENE	230.0000	UG/L	2
			SW8270	1,4-DICHLOROBENZENE	160.0000	UG/L	2
			SW8270	NAPHTHALENE	50.0000	UG/L	2
HM-10	MW-HM10-07	06-JUN-93	SW8240	1,1-DICHLOROETHENE	3700.0000	UG/L	100
			SW8240	1,1,1-TRICHLOROETHANE	190.0000	UG/L	100
			SW8240	TRICHLOROETHYLENE (TCE)	3400.0000	UG/L	100
HM-11	MW-HM11-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	130.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	190.0000	UG/L	10
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	18.0000	UG/L	1
			SW8270	NAPHTHALENE	21.0000	UG/L	1
HM-11-Dup	MW2-HM11-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	180.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	230.0000	UG/L	5
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	16.0000	UG/L	1
			SW8270	NAPHTHALENE	14.0000	UG/L	1
HM-15	MW-HM15-07	03-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	420.0000	UG/L	5
HM-16	MW-HM16-07	03-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	17.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	810.0000	UG/L	10
HM-17	MW-HM17-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	71.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	3300.0000	UG/L	50
HM-18	MW-HM18-07	09-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	11.0000	UG/L	1
HM-19	MW-HM19-07	09-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	1.2000	UG/L	1
HM-20	MW-HM20-07	23-MAY-93	SW8240	METHYLENE CHLORIDE	190.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	540.0000	UG/L	25
HM-21	MW-HM21-07	08-JUN-93	SW8240	CHLOROBENZENE	330.0000	UG/L	100
			SW8240	cis-1,2-DICHLOROETHYLENE	1200.0000	UG/L	100
			SW8240	VINYL CHLORIDE	2100.0000	UG/L	100
			SW8270	1,2-DICHLOROBENZENE	2100.0000	UG/L	20
			SW8270	1,4-DICHLOROBENZENE	380.0000	UG/L	20
HM-22	MW-HM22-07	12-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.9000	MG/L	1
HM-23	MW-HM23-07	04-MAY-93	E413.2	OIL & GREASE, TOTAL REC	1.0000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.1000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	17.0000	UG/L	1
HM-24	MW-HM24-07	06-MAY-93	SW8240	1,2-DICHLOROPROPANE	2.7000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	4.0000	UG/L	1
			SW8240	CHLOROFORM	15.0000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	1.1000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.7000	MG/L	1
HM-25	MW-HM25-07	13-JUN-93	SW8240	BENZENE	91.0000	UG/L	10
			SW8240	CHLOROBENZENE	1300.0000	UG/L	10
			SW8240	cis-1,2-DICHLOROETHYLENE	19.0000	UG/L	10
			SW8240	ETHYLBENZENE	82.0000	UG/L	10
			SW8240	TOTAL XYLENES	65.0000	UG/L	10
			SW8270	1,2-DICHLOROBENZENE	390.0000	UG/L	50
			SW8270	1,4-DICHLOROBENZENE	1100.0000	UG/L	50
			SW8270	2-METHYLNAPHTHALENE	330.0000	UG/L	50

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
HM-25-Dup	MW2-HM25-07	13-JUN-93	SW8240	BENZENE	98.0000	UG/L	10
			SW8240	CHLOROBENZENE	1400.0000	UG/L	10
			SW8240	cis-1,2-DICHLOROETHYLENE	19.0000	UG/L	10
			SW8240	ETHYLBENZENE	90.0000	UG/L	10
			SW8240	TOTAL XYLENES	780.0000	UG/L	10
			E413.2	OIL & GREASE, TOTAL REC	12.0000	MG/L	10
			E418.1	PETROLEUM HYDROCARBONS	11.0000	MG/L	10
			SW8270	1,2-DICHLOROBENZENE	230.0000	UG/L	20
			SW8270	1,4-DICHLOROBENZENE	440.0000	UG/L	20
HM-26	MW-HM26-07	07-JUN-93	SW8240	1,1-DICHLOROETHANE	1.1000	UG/L	1
			SW8240	1,2-DICHLOROETHANE	1.6000	UG/L	1
			SW8240	1,1-DICHLOROETHENE	76.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	5.3000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	4.7000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	42.0000	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	7.0000	UG/L	1
			SW8270	DI-n-BUTYL PHTHALATE	78.0000	UG/L	1
HM-26-Dup	MW2-HM26-07	07-JUN-93	SW8240	1,1-DICHLOROETHANE	1.1000	UG/L	1
			SW8240	1,2-DICHLOROETHANE	2.1000	UG/L	1
			SW8240	1,1-DICHLOROETHENE	76.0000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	5.5000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	4.3000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	44.0000	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	21.0000	UG/L	1
HM-27	MW-HM27-07	08-MAY-93	SW8240	1,1-DICHLOROETHENE	82.0000	UG/L	5
			SW8240	cis-1,2-DICHLOROETHYLENE	130.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	300.0000	UG/L	5
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	24.0000	UG/L	1
HM-28	MW-HM28-07	14-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	160.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	900.0000	UG/L	10
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	13.0000	UG/L	1
HM-29	MW-HM29-07	23-MAY-93	SW8240	METHYLENE CHLORIDE	90.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	760.0000	UG/L	25
HM-30	MW-HM30-07	02-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	150.0000	UG/L	1
HM-31	MW-HM31-07	05-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	350.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	2500.0000	UG/L	50
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	10.0000	UG/L	1
HM-34	MW-HM34-07	12-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.9000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
HM-36	MW-HM36-07	06-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	3.4000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	6.2000	UG/L	1
HM-37	MW-HM37-07	07-JUN-93	SW8240	1,1-DICHLOROETHENE	76.0000	UG/L	5
			SW8240	cis-1,2-DICHLOROETHYLENE	90.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	300.0000	UG/L	5
HM-38	MW-HM38-07	15-JUN-93	SW8240	TOLUENE	39000.0000	UG/L	1000
			SW8240	1,2-DICHLOROETHANE	10000.0000	UG/L	1000
			SW8240	cis-1,2-DICHLOROETHYLENE	95000.0000	UG/L	1000
			SW8240	trans-1,2-DICHLOROETHENE	1300.0000	UG/L	1000
			SW8240	METHYLENE CHLORIDE	74000.0000	UG/L	1000
			SW8240	TRICHLOROETHYLENE (TCE)	111000.0000	UG/L	1000
HM-39	MW-HM39-07	11-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	24.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	1.4000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	1.6000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
			SW8270	DI-n-BUTYL PHTHALATE	34.0000	UG/L	1
HM-41	MW-HM41-07	05-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	15.0000	UG/L	1
HM-47	MW-HM47-07	27-MAY-93	SW8240	CHLOROBENZENE	290.0000	UG/L	50
			SW8240	cis-1,2-DICHLOROETHYLENE	380.0000	UG/L	50
			SW8240	METHYLENE CHLORIDE	52.0000	UG/L	50
			SW8240	1,1,1-TRICHLOROETHANE	94.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	2900.0000	UG/L	50
			SW8270	1,2-DICHLOROBENZENE	160.0000	UG/L	1
			SW8270	1,4-DICHLOROBENZENE	55.0000	UG/L	1
HM-48	MW-HM48-07	07-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	1.3000	UG/L	1
			SW8240	CHLOROFORM	7.2000	UG/L	1
HM-49	MW-HM49-07	09-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	4.7000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	1.5000	UG/L	1
HM-50	MW-HM50-07	14-MAY-93	SW8240	BENZENE	5.2000	UG/L	5
			SW8240	cis-1,2-DICHLOROETHYLENE	530.0000	UG/L	5
			SW8240	TETRACHLOROETHYLENE(PCE)	7.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	28.0000	UG/L	5
			SW8240	VINYL CHLORIDE	270.0000	UG/L	5
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			SW8270	1,2-DICHLOROBENZENE	7.1000	UG/L	1

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
HM-51	MW-HM51-07	06-JUN-93	SW8240	TOLUENE	48000.0000	UG/L	1000
			SW8240	1,2-DICHLOROETHANE	44000.0000	UG/L	1000
			SW8240	cis-1,2-DICHLOROETHYLENE	89000.0000	UG/L	1000
			SW8240	METHYL ETHYL KETONE	6800.0000	UG/L	1000
			SW8240	METHYLENE CHLORIDE	2000000.0000	UG/L	1000
			SW8240	TRICHLOROETHYLENE (TCE)	180000.0000	UG/L	1000
			SW8240	CHLOROFORM	3200.0000	UG/L	1000
			E413.2	OIL & GREASE, TOTAL REC	2.1000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.8000	MG/L	1
			SW8270	BENZOIC ACID	300.0000	UG/L	5
HM-52	MW-HM52-07	07-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	300.0000	UG/L	5
HM-53	MW-HM53-07	11-JUN-93	SW8240	BENZENE	2.9000	UG/L	1
			SW8240	1,1-DICHLOROETHANE	1.7000	UG/L	1
			SW8240	ETHYLBENZENE	3.9000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	8.2000	UG/L	1
			SW8270	2-METHYLNAPHTHALENE	20.0000	UG/L	1
HM-54	MW-HM54-07	18-MAY-93	SW8240	1,1-DICHLOROETHANE	6.2000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	310.0000	UG/L	5
HM-54-Dup	MW2-HM54-07	18-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	340.0000	UG/L	5
HM-55	MW-HM55-07	13-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	1.0000	UG/L	1
HM-56	MW-HM56-07	27-MAY-93	SW8240	BENZENE	21.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	1.3000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	1.1000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	17.0000	UG/L	1
HM-57	MW-HM57-07	14-MAY-93	SW8240	METHYLENE CHLORIDE	1.3000	UG/L	1
			SW8240	CHLOROFORM	1.4000	UG/L	1
HM-59	MW-HM59-07	17-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	2.7000	UG/L	1
HM-59-Dup	MW2-HM59-07	17-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	2.7000	UG/L	1
HM-60	MW-HM60-07	07-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	19.0000	UG/L	1
HM-62	MW-HM62-07	09-MAY-93	SW8240	1,1-DICHLOROETHENE	2.1000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	7.7000	UG/L	1
HM-63	MW-HM63-07	07-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	660.0000	UG/L	5
			SW8240	trans-1,2-DICHLOROETHENE	9.4000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	180.0000	UG/L	5
			SW8240	VINYL CHLORIDE	36.0000	UG/L	5
HM-64	MW-HM64-07	08-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	390.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	10.0000	UG/L	5
HM-65-Dup	MW2-HM65-07	09-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	7.1000	UG/L	1
HM-66	MW-HM66-07	09-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	7.5000	UG/L	1
HM-68	MW-HM68-07	25-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	22.0000	UG/L	1
HM-69	MW-HM69-07	14-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	5.0000	UG/L	1
HM-70	MW-HM70-07	26-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	1100.0000	UG/L	200
HM-71	MW-HM71-07	27-MAY-93	SW8240	1,1-DICHLOROETHENE	14.0000	UG/L	5
			SW8240	cis-1,2-DICHLOROETHYLENE	14.0000	UG/L	5
			SW8240	TETRACHLOROETHYLENE(PCE)	77.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	370.0000	UG/L	5
HM-72-Dup	MW2-HM72-07	22-MAY-93	SW8240	LIGHT PETROLEUM C4 TO C8 RANGE	70.0000	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	20.0000	UG/L	1
HM-73	MW-HM73-07	14-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			SW8270	DI-n-BUTYL PHTHALATE	8.3000	UG/L	1
HM-74-Dup	MW2-HM74-07	13-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
HM-79	MW-HM79-07	17-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	1.9000	UG/L	1
			SW8240	TETRACHLOROETHYLENE(PCE)	24.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	20.0000	UG/L	1
HM-80	MW-HM80-07	12-MAY-93	SW8270	N-NITROSODI-n-PROPYLAMINE	7.1000	UG/L	1
HM-82	MW-HM82-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	18.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	190.0000	UG/L	5
HM-86	MW-HM86-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	25.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	850.0000	UG/L	10
HM-87	MW-HM87-07	05-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	28.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	370.0000	UG/L	5
HM-88	MW-HM88-07	24-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	50000.0000	UG/L	500
HM-89	MW-HM89-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	360.0000	UG/L	100
			SW8240	TRICHLOROETHYLENE (TCE)	9000.0000	UG/L	100
HM-90	MW-HM90-07	21-MAY-93	SW8240	1,1-DICHLOROETHANE	2.2000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	1.7000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	5.9000	UG/L	1
HM-90-Dup	MW2-HM90-07	21-MAY-93	SW8240	1,1-DICHLOROETHANE	2.0000	UG/L	1
			SW8240	1,2-DICHLOROETHANE	4.1000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	1.5000	UG/L	1
			SW8240	METHYLENE CHLORIDE	1.4000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	5.8000	UG/L	1
HM-91	MW-HM91-07	04-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	15.0000	UG/L	5
			SW8240	TRICHLOROFLUOROMETHANE	26.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	450.0000	UG/L	5
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	7.1000	UG/L	1
HM-92	MW-HM92-07	15-MAY-93	SW8240	METHYLENE CHLORIDE	1.7000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
HM-93	MW-HM93-07	23-MAY-93	SW8240	METHYLENE CHLORIDE	2.5000	UG/L	1

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
HM-94	MW-HM94-07	26-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	990.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	8500.0000	UG/L	50
HM-95	MW-HM95-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	120.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	1700.0000	UG/L	10
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	11.0000	UG/L	1
HM-96	MW-HM96-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	21.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	1100.0000	UG/L	10
HM-97	MW-HM97-07	26-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	12.0000	UG/L	10
			SW8240	TETRACHLOROETHYLENE(PCE)	45.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	330.0000	UG/L	10
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	8.3000	UG/L	1
HM-99	MW-HM99-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	600.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	2600.0000	UG/L	25
HM-103	MW-HM103-07	26-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	650.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	3100.0000	UG/L	50
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	20.0000	UG/L	1
HM-105	MW-HM105-07	13-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	1.1000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
HM-107	MW-HM107-07	07-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	280.0000	UG/L	2
HM-110	MW-HM110-07	02-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	13.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	130.0000	UG/L	1
			SW8240	CHLOROFORM	1.1000	UG/L	1
HM-111	MW-HM111-07	02-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	67.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	280.0000	UG/L	5
HM-112	MW-HM112-07	03-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	240.0000	UG/L	100
			SW8240	TRICHLOROETHYLENE (TCE)	8400.0000	UG/L	100
HM-113	MW-HM113-07	10-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	14.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	320.0000	UG/L	5
HM-114	MW-HM114-07	23-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	46.0000	UG/L	25
HM-114	MW-HM114-07	23-MAY-93	SW8240	METHYLENE CHLORIDE	250.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	1300.0000	UG/L	25
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	7.4000	UG/L	1
HM-115	MW-HM115-07	23-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	220.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	2400.0000	UG/L	25
HM-116	MW-HM116-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	88.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	600.0000	UG/L	10
HM-117	MW-HM117-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	17.0000	UG/L	1
			SW8240	TETRACHLOROETHYLENE(PCE)	18.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	560.0000	UG/L	1
HM-118	MW-HM118-07	25-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	160.0000	UG/L	1
HM-118-Du	MW2-HM118-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	2.1000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	160.0000	UG/L	1
HM-119	MW-HM119-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	2.6000	UG/L	1
			SW8240	METHYLENE CHLORIDE	1.5000	UG/L	1
			SW8240	TETRACHLOROETHYLENE(PCE)	8.2000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	100.0000	UG/L	1
HM-119-Du	MW2-HM119-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	3.2000	UG/L	1
			SW8240	TETRACHLOROETHYLENE(PCE)	9.8000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	120.0000	UG/L	1
HM-121	MW-HM121-07	26-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	520.0000	UG/L	10
			E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
HM-121-Du	MW2-HM121-07	26-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	550.0000	UG/L	10
HM-122	MW-HM122-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	270.0000	UG/L	5
			SW8240	trans-1,2-DICHLOROETHENE	66.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	160.0000	UG/L	5
			SW8240	VINYL CHLORIDE	24.0000	UG/L	5
HM-123	MW-HM123-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	490.0000	UG/L	5
			SW8240	trans-1,2-DICHLOROETHENE	30.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	930.0000	UG/L	5
HM-123-Du	MW2-HM123-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	400.0000	UG/L	10
			SW8240	trans-1,2-DICHLOROETHENE	25.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	710.0000	UG/L	10
HM-124	MW-HM124-07	20-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	1.0000	UG/L	1
HM-125	MW-HM125-07	20-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	13.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	120.0000	UG/L	1
HM-126	MW-HM126-07	11-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	39.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	870.0000	UG/L	5
W-128L	MW-W128L-07	19-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	13.0000	UG/L	1
W-129	MW-W129-07	12-MAY-93	SW8240	1,1-DICHLOROETHENE	5.3000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	54.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	1.6000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	1.5000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	58.0000	UG/L	1
W-130	MW-W130-07	14-JUN-93	SW8240	TOLUENE	49000.0000	UG/L	5000
			SW8240	1,2-DICHLOROETHANE	50000.0000	UG/L	5000
			SW8240	cis-1,2-DICHLOROETHYLENE	48000.0000	UG/L	5000
			SW8240	METHYLENE CHLORIDE	590000.0000	UG/L	5000
			SW8240	TRICHLOROETHYLENE (TCE)	490000.0000	UG/L	5000
W-131L	MW-W131L-07	04-JUN-93	SW8240	1,2-DICHLOROPROPANE	3.7000	UG/L	1
W-131U	MW-W131U-07	04-JUN-93	SW8240	CHLOROBENZENE	1.1000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	1.5000	UG/L	1

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
W-133L	MW-W133L-07	04-JUN-93	SW8240	BENZENE	72.0000	UG/L	25
			SW8240	TOLUENE	110.0000	UG/L	25
			SW8240	CHLOROBENZENE	4400.0000	UG/L	25
			SW8240	ETHYLBENZENE	31.0000	UG/L	25
			SW8240	TOTAL XYLENES	130.0000	UG/L	25
			E413.2	OIL & GREASE, TOTAL REC	3.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.8000	MG/L	1
			SW8270	1,2-DICHLOROBENZENE	840.0000	UG/L	10
			SW8270	1,4-DICHLOROBENZENE	390.0000	UG/L	10
W-133U	MW-W133U-07	06-JUN-93	SW8240	BENZENE	58.0000	UG/L	5
			SW8240	CHLOROBENZENE	240.0000	UG/L	5
			SW8240	cis-1,2-DICHLOROETHYLENE	12.0000	UG/L	5
W-135	MW-W135-07	12-MAY-93	SW8240	ETHYLBENZENE	3.5000	UG/L	1
			SW8240	STYRENE	54.0000	UG/L	1
			SW8240	TOTAL XYLENES	6.7000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
W-136	MW-W136-07	09-MAY-93	SW8240	METHYL ETHYL KETONE	18.0000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	6.5000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	2.6000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	19.0000	UG/L	1
			SW8270	2-METHYLNAPHTHALENE	36.0000	UG/L	1
W-137	MW-W137-07	07-MAY-93	SW8240	1,1-DICHLOROETHANE	2.2000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	46.0000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	7.1000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	200.0000	UG/L	1
W-139L	MW-W139L-07	11-JUN-93	SW8240	BENZENE	64.0000	UG/L	1
			SW8240	1,1-DICHLOROETHANE	2.1000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	2.8000	UG/L	1
			SW8240	TOTAL XYLENES	360.0000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	5.0000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	4.1000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	42.0000	UG/L	1
			SW8270	NAPHTHALENE	48.0000	UG/L	1
W-139U	MW-W139U-07	13-JUN-93	SW8240	BENZENE	280.0000	UG/L	10
			SW8240	ETHYLBENZENE	690.0000	UG/L	10
			SW8240	TOTAL XYLENES	800.0000	UG/L	10
			E413.2	OIL & GREASE, TOTAL REC	11.0000	MG/L	10
			E418.1	PETROLEUM HYDROCARBONS	5.0000	MG/L	10
			SW8270	2-METHYLNAPHTHALENE	94.0000	UG/L	2
			SW8270	NAPHTHALENE	83.0000	UG/L	2
			SW8270	N-NITROSODI-n-PROPYLAMINE	15.0000	UG/L	2
W-140L	MW-W140L-07	10-JUN-93	SW8240	BENZENE	490.0000	UG/L	20
			E413.2	OIL & GREASE, TOTAL REC	2.4000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.9000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	9.0000	UG/L	1
			SW8270	NAPHTHALENE	11.0000	UG/L	1
			SW8270	PHENOL	7.5000	UG/L	1
W-141L	MW-W141L-07	13-JUN-93	SW8240	ETHYLBENZENE	5200.0000	UG/L	200
			SW8240	TOTAL XYLENES	5300.0000	UG/L	200
			E413.2	OIL & GREASE, TOTAL REC	5.2000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	4.0000	MG/L	1
			SW8270	ACETOPHENONE	17.0000	UG/L	2
			SW8270	2,4-DIMETHYLPHENOL	31.0000	UG/L	2
			SW8270	2-METHYLNAPHTHALENE	33.0000	UG/L	2
			SW8270	NAPHTHALENE	31.0000	UG/L	2
W-141U	MW-W141U-07	14-JUN-93	SW8240	BENZENE	330.0000	UG/L	25
			SW8240	ETHYLBENZENE	4400.0000	UG/L	25
			SW8240	TOTAL XYLENES	8300.0000	UG/L	25
			E413.2	OIL & GREASE, TOTAL REC	5.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	2.4000	MG/L	1
			SW8270	2,4-DIMETHYLPHENOL	87.0000	UG/L	5
			SW8270	2-METHYLNAPHTHALENE	120.0000	UG/L	5
			SW8270	NAPHTHALENE	110.0000	UG/L	5
W-144	MW-W144-07	04-JUN-93	SW8240	1,1-DICHLOROETHENE	520.0000	UG/L	10
			SW8240	1,1,1-TRICHLOROETHANE	27.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	53.0000	UG/L	10
			SW8270	DI-n-BUTYL PHTHALATE	13.0000	UG/L	1
W-145	MW-W145-07	07-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	1.8000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	7.2000	UG/L	1
W-146	MW-W146-07	09-MAY-93	SW8240	METHYLENE CHLORIDE	2.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	6.3000	UG/L	1
W-147	MW-W147-07	10-MAY-93	SW8240	TETRACHLOROETHYLENE(PCE)	2.9000	UG/L	1
W-148	MW-W148-07	10-JUN-93	SW8240	BENZENE	61.0000	UG/L	25
			SW8240	TOLUENE	2700.0000	UG/L	25
			SW8240	ETHYLBENZENE	170.0000	UG/L	25
			SW8240	TOTAL XYLENES	370.0000	UG/L	25
			E413.2	OIL & GREASE, TOTAL REC	2.0000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.1000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	100.0000	UG/L	5
			SW8270	NAPHTHALENE	76.0000	UG/L	5

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
W-148-Dup	MW2-W148-07	10-JUN-93	SW8240	BENZENE	65.0000	UG/L	25
			SW8240	TOLUENE	2700.0000	UG/L	25
			SW8240	ETHYLBENZENE	170.0000	UG/L	25
			SW8240	TOTAL XYLENES	380.0000	UG/L	25
			E413.2	OIL & GREASE, TOTAL REC	1.8000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.3000	MG/L	1
			SW8270	2-METHYLPHENOL (o-CRESOL)	34.0000	UG/L	5
			SW8270	4-METHYLPHENOL (p-CRESOL)	46.0000	UG/L	5
			SW8270	2-METHYLNAPHTHALENE	130.0000	UG/L	5
			SW8270	NAPHTHALENE	110.0000	UG/L	5
W-149	MW-W149-07	26-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	1000.0000	UG/L	200
			SW8240	TRICHLOROETHYLENE (TCE)	15000.0000	UG/L	200
W-150L	MW-W150L-07	02-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	86.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	3500.0000	UG/L	50
W-150U	MW-W150U-07	02-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	86000.0000	UG/L	1000
			E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	0.7000	MG/L	1
			SW8270	2-METHYLNAPHTHALENE	15.0000	UG/L	1
			SW8270	NAPHTHALENE	15.0000	UG/L	1
			SW8270	2-NITROPHENOL	54.0000	UG/L	1
			SW8270	4-NITROPHENOL	31.0000	UG/L	1
W-151	MW-W151-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	25.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	500.0000	UG/L	10
W-153	MW-W153-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	270.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	2800.0000	UG/L	25
W-154	MW-W154-07	03-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	2200.0000	UG/L	20
W-155	MW-W155-07	27-MAY-93	SW8240	TRICHLOROETHYLENE (TCE)	2.1000	UG/L	1
W-156	MW-W156-07	27-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	170.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	6400.0000	UG/L	50
W-158	MW-W158-07	06-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	16000.0000	UG/L	250
W-159	MW-W159-07	05-JUN-93	SW8240	TOLUENE	1100.0000	UG/L	1000
			SW8240	TRICHLOROETHYLENE (TCE)	43000.0000	UG/L	1000
			E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
W-160	MW-W160-07	05-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	240.0000	UG/L	5
			SW8240	trans-1,2-DICHLOROETHENE	8.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	970.0000	UG/L	5
			SW8240	VINYL CHLORIDE	47.0000	UG/L	5
W-162	MW-W162-07	04-JUN-93	SW8240	TRICHLOROETHYLENE (TCE)	2.9000	UG/L	1
W-163	MW-W163-07	04-JUN-93	SW8240	ETHYLBENZENE	180.0000	UG/L	5
			SW8240	VINYL CHLORIDE	160.0000	UG/L	5
			E413.2	OIL & GREASE, TOTAL REC	5.5000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	3.4000	MG/L	1
			SW8270	ACETOPHENONE	7.4000	UG/L	1
			SW8270	DI-n-BUTYL PHTHALATE	5.6000	UG/L	1
			SW8270	2-METHYLNAPHTHALENE	59.0000	UG/L	1
			SW8270	N-NITROSODI-n-PROPYLAMINE	17.0000	UG/L	1
CARSWELL AFB UPPER ZONE WELLS							
LF04-02	MW-LF0402-07	22-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	330.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	4400.0000	UG/L	50
LF04-04	MW-LF0404-07	22-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	330.0000	UG/L	25
			SW8240	METHYLENE CHLORIDE	92.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	660.0000	UG/L	25
LF04-4B	MW-LF044B-07	18-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
LF04-4C	MW-LF044C-07	18-MAY-93	SW8240	CHLOROBENZENE	1.8000	UG/L	1
			SW8240	cis-1,2-DICHLOROETHYLENE	13.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	2.2000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	16.0000	UG/L	1
			SW8240	VINYL CHLORIDE	3.2000	UG/L	1
LF04-4G	MW-LF044G-07	23-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	260.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	2400.0000	UG/L	50
LF05-01	MW-LF0501-07	19-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	150.0000	UG/L	20
			SW8240	TRICHLOROETHYLENE (TCE)	1100.0000	UG/L	20
			SW8240	VINYL CHLORIDE	110.0000	UG/L	20
LF05-02	MW-LF0502-07	20-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	180.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	21.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	100.0000	UG/L	1
			SW8240	VINYL CHLORIDE	14.0000	UG/L	1
LF05-5A	MW-LF055A-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	140.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	340.0000	UG/L	10
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
LF05-5B	MW-LF055B-07	18-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	690.0000	UG/L	10
			SW8240	trans-1,2-DICHLOROETHENE	22.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	29.0000	UG/L	10
			SW8240	VINYL CHLORIDE	97.0000	UG/L	10
			SW8270	DI-n-BUTYL PHTHALATE	5.6000	UG/L	1
LF05-5E	MW-LF055E-07	21-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	78.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	2.9000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	140.0000	UG/L	1
LF05-14	MW-LF0514-07	23-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	340.0000	UG/L	25
			SW8240	METHYLENE CHLORIDE	91.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	1400.0000	UG/L	25

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
LF05-18	MW-LF0518-07	22-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	360.0000	UG/L	25
			SW8240	trans-1,2-DICHLOROETHENE	34.0000	UG/L	25
			SW8240	TRICHLOROETHYLENE (TCE)	1800.0000	UG/L	25
LF05-19	MW-LF0519-07	18-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	17.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	37.0000	UG/L	1
FT08-11A	MW-FT0811A-07	19-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	2.4000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	3.3000	UG/L	1
FT08-11B	MW-FT0811B-07	19-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	33.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	2.6000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	44.0000	UG/L	1
FT09-12B	MW-FT0912B-07	19-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	7.9000	UG/L	1
			SW8240	TETRACHLOROETHYLENE(PCE)	3.5000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	9.0000	UG/L	1
PALUXY UPPER SAND WELLS							
P-8US	MW-P8US-07	10-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	140.0000	UG/L	50
			SW8240	TRICHLOROETHYLENE (TCE)	3000.0000	UG/L	50
			E418.1	PETROLEUM HYDROCARBONS	0.5000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	8.7000	UG/L	1
P-9US	MW-P9US-07	08-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	13.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	1000.0000	UG/L	5
			SW8240	CHLOROFORM	7.0000	UG/L	5
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	13.0000	UG/L	1
P-14US	MW-P14US-07	25-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	20.0000	UG/L	1
			SW8240	trans-1,2-DICHLOROETHENE	1.1000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	130.0000	UG/L	1
P-15US	MW-P15US-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	450.0000	UG/L	10
			SW8240	METHYLENE CHLORIDE	58.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	1600.0000	UG/L	10
			SW8270	ACETOPHENONE	9.3000	UG/L	1
P-16US	MW-P16US-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	300.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	750.0000	UG/L	10
P-19US	MW-P19US-07	05-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	55000.0000	UG/L	5000
			SW8240	TRICHLOROETHYLENE (TCE)	820000.0000	UG/L	5000
UPPER PALUXY WELLS							
P-5UN	MW-P5UN-07	18-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	29.0000	UG/L	1
			SW8240	VINYL CHLORIDE	27.0000	UG/L	1
P-6U	MW-P6U-07	12-MAY-93	SW8240	TOLUENE	1.2000	UG/L	1
			SW8240	CARBON DISULFIDE	2.7000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	26.0000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	12.0000	MG/L	1
P-8UN	MW-P8UN-07	09-JUN-93	SW8240	cis-1,2-DICHLOROETHYLENE	3.6000	UG/L	1
			SW8240	1,1,1-TRICHLOROETHANE	28.0000	UG/L	1
P-10U	MW-P10U-07	11-MAY-93	SW8270	DI-n-BUTYL PHTHALATE	17.0000	UG/L	1
P-21U-Dup	MW2-P21U-07	05-MAY-93	E413.2	OIL & GREASE, TOTAL REC	1.2000	MG/L	1
P-22U	MW-P22U-07	10-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	200.0000	UG/L	5
			SW8240	TRICHLOROETHYLENE (TCE)	51.0000	UG/L	5
			SW8240	VINYL CHLORIDE	21.0000	UG/L	5
P-24U	MW-P24U-07	11-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	5.8000	UG/L	1
P-27U	MW-P27U-07	26-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	580.0000	UG/L	10
			SW8240	VINYL CHLORIDE	26.0000	UG/L	10
P-28U	MW-P28U-07	13-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
MIDDLE PALUXY WELLS							
P-5M	MW-P5M-07	17-MAY-93	E524.2	TOLUENE	1.3000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	1.5000	UG/L	1
P-5M-Dup	MW2-P5M-07	17-MAY-93	E524.2	TOLUENE	1.0000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	1.6000	UG/L	1
P-6M	MW-P6M-07	08-MAY-93	E524.2	TOLUENE	4.0000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	4.1000	UG/L	1
P-7M	MW-P7M-07	06-MAY-93	E524.2	TOLUENE	4.0000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	1.8000	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.8000	MG/L	1
P-8M	MW-P8M-07	22-MAY-93	E524.2	TOLUENE	0.7000	UG/L	1
P-9M	MW-P9M-07	20-MAY-93	E524.2	TOLUENE	1.2000	UG/L	1
P-11M	MW-P11M-07	19-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	8.6000	UG/L	1
			SW8270	PHENOL	7.0000	UG/L	1
P-12M	MW-P12M-07	09-MAY-93	E413.2	OIL & GREASE, TOTAL REC	2.3000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	1.4000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	73.0000	UG/L	1
P-12M-Dup	MW2-P12M-07	09-MAY-93	E413.2	OIL & GREASE, TOTAL REC	3.2000	MG/L	1
			E418.1	PETROLEUM HYDROCARBONS	3.2000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	75.0000	UG/L	1
P-13M	MW-P13M-07	21-MAY-93	E524.2	TOLUENE	0.5900	UG/L	1
P-20M-Dup	MW2-P20M-07	03-MAY-93	E524.2	CARBON TETRACHLORIDE	0.6400	UG/L	1
			E524.2	1,1-DICHLOROETHENE	0.5900	UG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	7.9000	UG/L	1
P-22M	MW-P22M-07	10-MAY-93	E524.2	TOLUENE	2.4000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	0.5300	UG/L	1
			E524.2	TRICHLOROETHYLENE (TCE)	1.7000	UG/L	1

APPENDIX A – ORGANIC RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Test	Analyte	Result	Units	Dilution
P-22M-Dup	MW2-P22M-07	10-MAY-93	E524.2	TOLUENE	2.3000	UG/L	1
			E524.2	cis-1,2-DICHLOROETHYLENE	0.5400	UG/L	1
			E524.2	TRICHLOROETHYLENE (TCE)	1.8000	UG/L	1
P-24M	MW-P24M-07	11-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.6000	MG/L	1
P-25M	MW-P25M-07	07-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	9.8000	UG/L	1
P-26M	MW-P26M-07	09-MAY-93	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	9.6000	UG/L	1
P-29M	MW-P29M-07	12-MAY-93	E524.2	1,1,2-TRICHLOROETHANE	0.5300	UG/L	1
			E413.2	OIL & GREASE, TOTAL REC	0.5000	MG/L	1
			SW8270	bis(2-ETHYLHEXYL) PHTHALATE	13.0000	UG/L	1
P-30M	MW-P30M-07	12-MAY-93	E413.2	OIL & GREASE, TOTAL REC	0.7000	MG/L	1
SURFACE WATER LOCATIONS							
SW-08	SW-SW8-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	13.0000	UG/L	1
C-5	SW-C5-07	24-MAY-93	SW8240	METHYLENE CHLORIDE	1.4000	UG/L	1
EGL-1	SW-EGL1-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	1.5000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	3.1000	UG/L	1
EGL-2	SW-EGL2-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	11.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	42.0000	UG/L	1
LF05-S5	SW-LF05S5-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	5.8000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	23.0000	UG/L	1
LF05-S6	SW-LF05S6-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	18.0000	UG/L	1
			SW8240	TRICHLOROETHYLENE (TCE)	56.0000	UG/L	1
LF05-S7	SW-LF05S7-07	24-MAY-93	SW8240	cis-1,2-DICHLOROETHYLENE	150.0000	UG/L	10
			SW8240	TRICHLOROETHYLENE (TCE)	270.0000	UG/L	10

APPENDIX B

SW6010 RESULTS, EXCLUDING LEAD AND CHROMIUM (DETECTED)

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
UPPER ZONE WELLS						
DOCK-17	MW-DOCK17-07	06-MAY-93	BARIUM	0.1800	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.5400	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.6600	mg/L	1
			SODIUM	75.0000	mg/L	1
			NICKEL	0.0410	mg/L	1
F-200	MW-F200-07	14-MAY-93	BARIUM	0.1900	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	5.9000	mg/L	1
			MANGANESE	0.7600	mg/L	1
			SODIUM	89.0000	mg/L	1
F-200 DUP	MW2-F200-07	14-MAY-93	BARIUM	0.1900	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	5.9000	mg/L	1
			MANGANESE	0.7700	mg/L	1
			SODIUM	90.0000	mg/L	1
F-203	MW-F203-07	13-JUN-93	ARSENIC	0.0610	mg/L	1
			BARIUM	0.1800	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CADMIUM	0.0100	mg/L	1
			IRON	13.0000	mg/L	1
			POTASSIUM	0.7800	mg/L	1
			MAGNESIUM	5.6000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	64.0000	mg/L	1
F-203 DUP	MW2-F203-07	13-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.1800	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CADMIUM	0.0110	mg/L	1
			IRON	13.0000	mg/L	1
			POTASSIUM	0.7700	mg/L	1
			MAGNESIUM	5.6000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	65.0000	mg/L	1
F-204	MW-F204-07	14-JUN-93	ALUMINUM	0.5200	mg/L	1
			ARSENIC	0.0670	mg/L	1
			BARIUM	0.7500	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	6.2000	mg/L	1
			POTASSIUM	0.6400	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.2200	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.0230	mg/L	1
F-207	MW-F207-07	09-JUN-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	0.0890	mg/L	1
			POTASSIUM	0.7600	mg/L	1
			MAGNESIUM	3.3000	mg/L	1
			SODIUM	98.0000	mg/L	1
F-208	MW-F208-07	13-MAY-93	ALUMINUM	0.1800	mg/L	1
			BARIUM	0.0950	mg/L	1
			CALCIUM	91.0000	mg/L	1
			IRON	0.2700	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	4.7000	mg/L	1
			MANGANESE	0.2900	mg/L	1
			SODIUM	9.1000	mg/L	1
			ZINC	0.0130	mg/L	1
F-209	MW-F209-07	11-JUN-93	ALUMINUM	0.2300	mg/L	1
			ARSENIC	0.0640	mg/L	1
			BARIUM	0.2900	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	10.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	2.9000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.3800	mg/L	1
			SODIUM	49.0000	mg/L	1
			ZINC	0.0320	mg/L	1
F-211	MW-F211-07	11-JUN-93	ALUMINUM	0.2300	mg/L	1
			BARIUM	0.0870	mg/L	1
			CALCIUM	88.0000	mg/L	1
			CHROMIUM, TOTAL	0.1100	mg/L	1
			IRON	0.1400	mg/L	1
			POTASSIUM	0.7300	mg/L	1
			MAGNESIUM	2.5000	mg/L	1
			SODIUM	130.0000	mg/L	1
F-212	MW-F212-07	13-MAY-93	ALUMINUM	0.5700	mg/L	1
			BARIUM	0.1700	mg/L	1
			CALCIUM	700.0000	mg/L	10
			COPPER	0.0230	mg/L	1
			IRON	2.0000	mg/L	1
			POTASSIUM	3.0000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.0860	mg/L	1
			SODIUM	170.0000	mg/L	1
			LEAD	0.0520	mg/L	1
			ZINC	0.3000	mg/L	1
F-213	MW-F213-07	10-MAY-93	BARIUM	0.0430	mg/L	1
			CALCIUM	260.0000	mg/L	1
			IRON	3.1000	mg/L	1
			POTASSIUM	0.5000	mg/L	1
			MAGNESIUM	24.0000	mg/L	1
			MANGANESE	0.5200	mg/L	1
			SODIUM	57.0000	mg/L	1
			ZINC	0.0120	mg/L	1
F-214	MW-F214-07	14-JUN-93	BARIUM	0.0740	mg/L	1
			CALCIUM	610.0000	mg/L	10
			IRON	1.8000	mg/L	1
			POTASSIUM	6.7000	mg/L	1
			MAGNESIUM	45.0000	mg/L	1
			MANGANESE	1.4000	mg/L	1
			SODIUM	200.0000	mg/L	1
			ZINC	0.0110	mg/L	1
F-214 DUP	MW2-F214-07	14-JUN-93	BARIUM	0.0720	mg/L	1
			CALCIUM	620.0000	mg/L	10
			IRON	1.3000	mg/L	1
			POTASSIUM	6.9000	mg/L	1
			MAGNESIUM	46.0000	mg/L	1
			MANGANESE	1.5000	mg/L	1
			SODIUM	200.0000	mg/L	1
			ZINC	0.0140	mg/L	1
F-215	MW-F215-07	09-JUN-93	BARIUM	0.1000	mg/L	1
			CALCIUM	180.0000	mg/L	1
			CHROMIUM, TOTAL	0.0870	mg/L	1
			IRON	0.0470	mg/L	1
			POTASSIUM	0.7600	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			MANGANESE	0.0480	mg/L	1
			SODIUM	130.0000	mg/L	1
F-216	MW-F216-07	06-JUN-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.0330	mg/L	1
			CALCIUM	220.0000	mg/L	1
			IRON	0.0710	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	9.7000	mg/L	1
			MANGANESE	0.1500	mg/L	1
			SODIUM	270.0000	mg/L	1
			ZINC	0.0170	mg/L	1
F-216 DUP	MW2-F216-07	06-JUN-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0330	mg/L	1
			CALCIUM	230.0000	mg/L	1
			COPPER	0.0240	mg/L	1
			IRON	0.0820	mg/L	1
			POTASSIUM	1.2000	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	0.1800	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			SODIUM	280.0000	mg/L	1
			SILVER	0.0110	mg/L	1
F-217	MW-F217-07	06-JUN-93	BARIUM	0.1500	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	1.5000	mg/L	1
			POTASSIUM	16.0000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.2100	mg/L	1
			SODIUM	140.0000	mg/L	1
			ZINC	0.0120	mg/L	1
F-218	MW-F218-07	13-JUN-93	ALUMINUM	0.3400	mg/L	1
			BARIUM	0.0860	mg/L	1
			CALCIUM	140.0000	mg/L	1
			CHROMIUM, TOTAL	0.2200	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	1.0000	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			MANGANESE	0.0540	mg/L	1
			SODIUM	37.0000	mg/L	1
F-219	MW-F219-07	10-MAY-93	BARIUM	0.0250	mg/L	1
			CALCIUM	610.0000	mg/L	10
			IRON	0.2600	mg/L	1
			POTASSIUM	4.0000	mg/L	1
			MAGNESIUM	24.0000	mg/L	1
			MANGANESE	0.0280	mg/L	1
			SODIUM	52.0000	mg/L	1
			ZINC	0.0180	mg/L	1
F-220	MW-F220-07	03-JUN-93	BARIUM	0.7900	mg/L	1
			CALCIUM	220.0000	mg/L	1
			COBALT	0.1100	mg/L	1
			COPPER	0.0400	mg/L	1
			IRON	0.3300	mg/L	1
			POTASSIUM	4.1000	mg/L	1
			MAGNESIUM	41.0000	mg/L	1
			MANGANESE	0.5300	mg/L	1
			MOLYBDENUM	0.3400	mg/L	1
			SODIUM	2500.0000	mg/L	10
			NICKEL	0.1000	mg/L	1
			ZINC	0.0350	mg/L	1
F-221	MW-F221-07	20-MAY-93	BARIUM	0.3000	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.9900	mg/L	1
			POTASSIUM	0.8800	mg/L	1
			MAGNESIUM	4.5000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	42.0000	mg/L	1
FSA-3-01	MW-FSA31-07	09-JUN-93	ALUMINUM	0.1300	mg/L	1
			ARSENIC	0.0540	mg/L	1
			BARIUM	0.2400	mg/L	1
			CALCIUM	110.0000	mg/L	1
			CADMIUM	0.0060	mg/L	1
			IRON	12.0000	mg/L	1
			POTASSIUM	0.7900	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.2800	mg/L	1
			SODIUM	37.0000	mg/L	1
FSA-3-02	MW-FSA32-07	13-JUN-93	ALUMINUM	0.1100	mg/L	1
			ARSENIC	0.0520	mg/L	1
			BARIUM	0.3700	mg/L	1
			CALCIUM	91.0000	mg/L	1
			CADMIUM	0.0070	mg/L	1
			IRON	10.0000	mg/L	1
			POTASSIUM	0.7000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.1800	mg/L	1
			SODIUM	84.0000	mg/L	1
FSA-3-03	MW-FSA33-07	08-JUN-93	ALUMINUM	0.6800	mg/L	1
			ARSENIC	0.0630	mg/L	1
			BARIUM	0.0960	mg/L	1
			CALCIUM	66.0000	mg/L	1
			CADMIUM	0.0050	mg/L	1
			IRON	0.3300	mg/L	1
			POTASSIUM	1.6000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	8.1000	mg/L	1
			MANGANESE	0.0440	mg/L	1
			SODIUM	440.0000	mg/L	10
FSA-3-04	MW-FSA34-07	08-JUN-93	ALUMINUM	0.3000	mg/L	1
			ARSENIC	0.0550	mg/L	1
			BARIUM	0.2000	mg/L	1
			CALCIUM	70.0000	mg/L	1
			IRON	0.0630	mg/L	1
			POTASSIUM	0.9000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.0680	mg/L	1
			SODIUM	84.0000	mg/L	1
			ZINC	0.0110	mg/L	1
FSA-3-06	MW-FSA36-07	08-JUN-93	ALUMINUM	0.1600	mg/L	1
			ARSENIC	0.0500	mg/L	1
			BARIUM	0.3200	mg/L	1
			CALCIUM	90.0000	mg/L	1
			IRON	0.8900	mg/L	1
			POTASSIUM	0.7000	mg/L	1
			MAGNESIUM	20.0000	mg/L	1
			MANGANESE	0.7600	mg/L	1
			SODIUM	88.0000	mg/L	1
FSA-3-07	MW-FSA37-07	08-JUN-93	ALUMINUM	0.3500	mg/L	1
			ARSENIC	0.0860	mg/L	1
			BARIUM	0.2800	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CADMIUM	0.0110	mg/L	1
			IRON	15.0000	mg/L	1
			POTASSIUM	0.6100	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.6100	mg/L	1
			SODIUM	51.0000	mg/L	1
			ZINC	0.0110	mg/L	1
FSA-3-08	MW-FSA38-07	07-JUN-93	ALUMINUM	0.3700	mg/L	1
			ARSENIC	0.0790	mg/L	1
			BARIUM	0.2700	mg/L	1
			CALCIUM	140.0000	mg/L	1
			CADMIUM	0.0090	mg/L	1
			IRON	8.2000	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			MANGANESE	0.7400	mg/L	1
			SODIUM	47.0000	mg/L	1
FSA-3-10	MW-FSA310-07	09-JUN-93	ALUMINUM	0.2400	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	10.0000	mg/L	1
			POTASSIUM	0.7200	mg/L	1
			MAGNESIUM	8.5000	mg/L	1
			MANGANESE	0.8000	mg/L	1
			SODIUM	52.0000	mg/L	1
FSA-3-12	MW-FSA312-07	06-JUN-93	ALUMINUM	0.5800	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	170.0000	mg/L	1
			IRON	8.9000	mg/L	1
			POTASSIUM	0.9000	mg/L	1
			MAGNESIUM	13.0000	mg/L	1
			MANGANESE	0.2100	mg/L	1
			SODIUM	40.0000	mg/L	1
			ZINC	0.0130	mg/L	1
FSA-3-15	MW-FSA315-07	07-JUN-93	ALUMINUM	0.6600	mg/L	1
			BARIUM	0.3700	mg/L	1
			CALCIUM	100.0000	mg/L	1
			CADMIUM	0.0060	mg/L	1
			IRON	5.1000	mg/L	1
			POTASSIUM	0.8000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.6600	mg/L	1
			SODIUM	83.0000	mg/L	1
			ZINC	0.0490	mg/L	1
FSA-3-14	MW-FSA314-07	06-JUN-93	ALUMINUM	0.1900	mg/L	1
			BARIUM	0.3500	mg/L	1
			CALCIUM	85.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			IRON	0.3300	mg/L	1
			POTASSIUM	0.6500	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.2900	mg/L	1
			SODIUM	49.0000	mg/L	1
			ZINC	0.0650	mg/L	1
FSA-3-17	MW-FSA317-07	09-JUN-93	ALUMINUM	0.8100	mg/L	1
			BARIUM	0.0870	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	1.8000	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	29.0000	mg/L	1
			MANGANESE	1.6000	mg/L	1
			SODIUM	82.0000	mg/L	1
			ZINC	0.0150	mg/L	1
HM-2	MW-HM2-07	11-MAY-93	BARIUM	0.0940	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.0790	mg/L	1
			MAGNESIUM	3.0000	mg/L	1
			SODIUM	15.0000	mg/L	1
			ZINC	0.0230	mg/L	1
HM-5	MW-HM5-07	06-MAY-93	ALUMINUM	0.2900	mg/L	1
			BARIUM	0.0700	mg/L	1
			CALCIUM	290.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	25.0000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	44.0000	mg/L	1
			ZINC	0.0150	mg/L	1
HM-5 DUP	MW2-HM5-07	06-MAY-93	ALUMINUM	0.2700	mg/L	1
			BARIUM	0.0690	mg/L	1
			CALCIUM	270.0000	mg/L	1
			IRON	0.9200	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	24.0000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	44.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-7	MW-HM7-07	06-JUN-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.2600	mg/L	1
			CALCIUM	120.0000	mg/L	1
			COPPER	0.0220	mg/L	1
			IRON	6.9000	mg/L	1
			POTASSIUM	10.0000	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.4900	mg/L	1
			SODIUM	68.0000	mg/L	1
			NICKEL	0.0630	mg/L	1
			ZINC	0.0540	mg/L	1
HM-8	MW-HM8-07	06-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0730	mg/L	1
			CALCIUM	110.0000	mg/L	1
			COPPER	0.0280	mg/L	1
			IRON	0.1100	mg/L	1
			POTASSIUM	1.9000	mg/L	1
			MAGNESIUM	2.3000	mg/L	1
			SODIUM	10.0000	mg/L	1
			ZINC	0.5800	mg/L	1
HM-9	MW-HM9-07	06-MAY-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.0300	mg/L	1
			CALCIUM	620.0000	mg/L	5
			COPPER	0.0270	mg/L	1
			IRON	0.2300	mg/L	1
			POTASSIUM	16.0000	mg/L	1
			MAGNESIUM	140.0000	mg/L	1
			MANGANESE	0.5900	mg/L	1
			SODIUM	95.0000	mg/L	1
			ZINC	0.1000	mg/L	1
HM-10	MW-HM10-07	06-JUN-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0570	mg/L	1
			CALCIUM	160.0000	mg/L	1
			COPPER	0.0260	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			IRON	0.1400	mg/L	1
			POTASSIUM	13.0000	mg/L	1
			MAGNESIUM	38.0000	mg/L	1
			MANGANESE	0.0110	mg/L	1
			SODIUM	170.0000	mg/L	1
			ZINC	0.0250	mg/L	1
HM-11	MW-HM11-07	27-MAY-93	ALUMINUM	0.1700	mg/L	1
			BARIUM	0.0710	mg/L	1
			CALCIUM	140.0000	mg/L	1
			COPPER	0.0290	mg/L	1
			IRON	0.2300	mg/L	1
			POTASSIUM	0.9800	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			MANGANESE	0.0130	mg/L	1
			SODIUM	18.0000	mg/L	1
			ZINC	0.0440	mg/L	1
HM-11 DUP	MW2-HM11-07	27-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0690	mg/L	1
			CALCIUM	140.0000	mg/L	1
			COPPER	0.0370	mg/L	1
			IRON	0.3200	mg/L	1
			POTASSIUM	0.9800	mg/L	1
			MAGNESIUM	3.6000	mg/L	1
			MANGANESE	0.0140	mg/L	1
			SODIUM	18.0000	mg/L	1
			ZINC	0.0500	mg/L	1
HM-12	MW-HM12-07	18-MAY-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.0200	mg/L	1
			CALCIUM	630.0000	mg/L	10
			COPPER	0.0230	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	3.3000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.0180	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0530	mg/L	1
HM-13	MW-HM13-07	05-MAY-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.0880	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	0.5700	mg/L	1
			MAGNESIUM	4.7000	mg/L	1
			MANGANESE	0.0110	mg/L	1
			SODIUM	24.0000	mg/L	1
HM-14	MW-HM14-07	04-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	190.0000	mg/L	1
			COPPER	0.0380	mg/L	1
			IRON	9.1000	mg/L	1
			POTASSIUM	0.8500	mg/L	1
			MAGNESIUM	3.8000	mg/L	1
			MANGANESE	0.1000	mg/L	1
			SODIUM	41.0000	mg/L	1
			LEAD	0.1300	mg/L	1
			ZINC	0.5400	mg/L	1
HM-15	MW-HM15-07	03-JUN-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	0.3000	mg/L	1
			POTASSIUM	1.6000	mg/L	1
			MAGNESIUM	2.9000	mg/L	1
			MANGANESE	0.0300	mg/L	1
			SODIUM	20.0000	mg/L	1
			ZINC	0.0340	mg/L	1
HM-16	MW-HM16-07	03-JUN-93	ALUMINUM	0.4200	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	95.0000	mg/L	1
			IRON	1.6000	mg/L	1
			POTASSIUM	2.7000	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	57.0000	mg/L	1
			ZINC	0.1200	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
HM-17	MW-HM17-07	27-MAY-93	ALUMINUM	0.3600	mg/L	1
			BARIUM	0.0280	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.6100	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	5.0000	mg/L	1
			MANGANESE	0.0480	mg/L	1
			SODIUM	12.0000	mg/L	1
			ZINC	0.0710	mg/L	1
HM-18	MW-HM18-07	09-MAY-93	ALUMINUM	0.2100	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	170.0000	mg/L	1
			CHROMIUM, TOTAL	0.1600	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	0.5900	mg/L	1
			MAGNESIUM	4.3000	mg/L	1
			SODIUM	84.0000	mg/L	1
HM-19	MW-HM19-07	09-MAY-93	BARIUM	0.0640	mg/L	1
			CALCIUM	270.0000	mg/L	1
			IRON	0.0590	mg/L	1
			POTASSIUM	4.3000	mg/L	1
			MAGNESIUM	25.0000	mg/L	1
			MANGANESE	0.0830	mg/L	1
			SODIUM	120.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-20	MW-HM20-07	23-MAY-93	ALUMINUM	0.5500	mg/L	1
			BARIUM	0.0870	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CHROMIUM, TOTAL	0.1100	mg/L	1
			IRON	11.0000	mg/L	1
			POTASSIUM	0.6500	mg/L	1
			MAGNESIUM	2.8000	mg/L	1
			MANGANESE	0.0810	mg/L	1
			SODIUM	130.0000	mg/L	1
			ZINC	0.2100	mg/L	1
HM-21	MW-HM21-07	08-JUN-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0490	mg/L	1
			CALCIUM	200.0000	mg/L	1
			CADMIUM	0.0060	mg/L	1
			IRON	2.6000	mg/L	1
			POTASSIUM	9.5000	mg/L	1
			MAGNESIUM	36.0000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	180.0000	mg/L	1
			ZINC	0.0190	mg/L	1
HM-22	MW-HM22-07	12-MAY-93	ALUMINUM	0.8300	mg/L	1
			BARIUM	0.0590	mg/L	1
			CALCIUM	490.0000	mg/L	5
			IRON	2.7000	mg/L	1
			POTASSIUM	3.9000	mg/L	1
			MAGNESIUM	41.0000	mg/L	1
			MANGANESE	0.2300	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.0460	mg/L	1
HM-23	MW-HM23-07	04-MAY-93	ALUMINUM	0.4300	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	1.6000	mg/L	1
			POTASSIUM	0.8100	mg/L	1
			MAGNESIUM	3.3000	mg/L	1
			MANGANESE	0.1200	mg/L	1
			SODIUM	22.0000	mg/L	1
			LEAD	0.0640	mg/L	1
			ZINC	2.5000	mg/L	1
HM-24	MW-HM24-07	06-MAY-93	BARIUM	0.0400	mg/L	1
			CALCIUM	320.0000	mg/L	5
			IRON	0.3000	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			MANGANESE	0.0700	mg/L	1
			SODIUM	60.0000	mg/L	1
			ZINC	1.1000	mg/L	1
HM-25	MW-HM25-07	13-JUN-93	ARSENIC	0.2100	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			BARIUM	0.3800	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	5.2000	mg/L	1
			POTASSIUM	0.8900	mg/L	1
			MAGNESIUM	6.7000	mg/L	1
			MANGANESE	0.4000	mg/L	1
			SODIUM	41.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-25 DUP	MW2-HM25-07	13-JUN-93	ARSENIC	0.1900	mg/L	1
			BARIUM	0.3800	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	5.7000	mg/L	1
			POTASSIUM	0.9000	mg/L	1
			MAGNESIUM	6.8000	mg/L	1
			MANGANESE	0.4000	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-26	MW-HM26-07	07-JUN-93	ALUMINUM	1.4000	mg/L	1
			BARIUM	0.0410	mg/L	1
			CALCIUM	470.0000	mg/L	10
			COPPER	0.0480	mg/L	1
			IRON	0.2500	mg/L	1
			POTASSIUM	33.0000	mg/L	1
			MAGNESIUM	190.0000	mg/L	1
			MANGANESE	0.6200	mg/L	1
			SODIUM	220.0000	mg/L	1
			ZINC	0.0620	mg/L	1
HM-26 DUP	MW2-HM26-07	07-JUN-93	ALUMINUM	2.5000	mg/L	1
			ARSENIC	0.1000	mg/L	1
			BARIUM	0.0380	mg/L	1
			CALCIUM	460.0000	mg/L	10
			COPPER	0.0540	mg/L	1
			IRON	2.9000	mg/L	1
			POTASSIUM	32.0000	mg/L	1
			MAGNESIUM	190.0000	mg/L	1
			MANGANESE	0.9100	mg/L	1
			SODIUM	210.0000	mg/L	1
			SELENIUM	0.1300	mg/L	1
			ZINC	0.0630	mg/L	1
HM-27	MW-HM27-07	08-MAY-93	SILVER	0.0100	mg/L	1
			ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0240	mg/L	1
			CALCIUM	300.0000	mg/L	1
			IRON	0.0800	mg/L	1
			POTASSIUM	33.0000	mg/L	1
			MAGNESIUM	150.0000	mg/L	1
			MANGANESE	0.6000	mg/L	1
			SODIUM	190.0000	mg/L	1
HM-28	MW-HM28-07	14-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0640	mg/L	1
			CALCIUM	130.0000	mg/L	1
			CHROMIUM, TOTAL	0.1000	mg/L	1
			IRON	0.0910	mg/L	1
			POTASSIUM	0.9700	mg/L	1
			MAGNESIUM	5.4000	mg/L	1
			SODIUM	32.0000	mg/L	1
HM-29	MW-HM29-07	23-MAY-93	ALUMINUM	0.2800	mg/L	1
			BARIUM	0.0950	mg/L	1
			CALCIUM	88.0000	mg/L	1
			CHROMIUM, TOTAL	0.1400	mg/L	1
			IRON	0.6500	mg/L	1
			POTASSIUM	0.6600	mg/L	1
			MAGNESIUM	2.5000	mg/L	1
			SODIUM	130.0000	mg/L	1
			ZINC	0.2400	mg/L	1
HM-30	MW-HM30-07	02-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0560	mg/L	1
			CALCIUM	81.0000	mg/L	1
			IRON	0.1500	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	2.0000	mg/L	1
			SODIUM	18.0000	mg/L	1
			ZINC	0.0550	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
HM-31	MW-HM31-07	05-JUN-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0580	mg/L	1
			CALCIUM	160.0000	mg/L	1
			COPPER	0.0220	mg/L	1
			IRON	0.2100	mg/L	1
			POTASSIUM	1.7000	mg/L	1
			MAGNESIUM	8.6000	mg/L	1
			MANGANESE	0.0450	mg/L	1
			SODIUM	110.0000	mg/L	1
			ZINC	0.0360	mg/L	1
HM-32	MW-HM32-07	08-MAY-93	ALUMINUM	0.1000	mg/L	1
			BARIUM	0.0460	mg/L	1
			CALCIUM	77.0000	mg/L	1
			IRON	0.1500	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	1.8000	mg/L	1
			SODIUM	18.0000	mg/L	1
			ZINC	0.2100	mg/L	1
HM-33	MW-HM33-07	06-MAY-93	ALUMINUM	0.2600	mg/L	1
			BARIUM	0.1900	mg/L	1
			CALCIUM	820.0000	mg/L	5
			COPPER	0.0220	mg/L	1
			IRON	0.5400	mg/L	1
			POTASSIUM	1.7000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.5900	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0240	mg/L	1
HM-34	MW-HM34-07	12-MAY-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	280.0000	mg/L	1
			IRON	0.2600	mg/L	1
			POTASSIUM	0.9200	mg/L	1
			MAGNESIUM	6.3000	mg/L	1
			MANGANESE	0.5700	mg/L	1
			SODIUM	23.0000	mg/L	1
			ZINC	0.0330	mg/L	1
HM-35	MW-HM35-07	12-MAY-93	ALUMINUM	0.3300	mg/L	1
			BARIUM	0.0600	mg/L	1
			CALCIUM	290.0000	mg/L	1
			IRON	0.0500	mg/L	1
			POTASSIUM	1.6000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.7800	mg/L	1
			SODIUM	41.0000	mg/L	1
HM-36	MW-HM36-07	06-MAY-93	ALUMINUM	0.6900	mg/L	1
			BARIUM	0.0420	mg/L	1
			CALCIUM	550.0000	mg/L	5
			IRON	0.2200	mg/L	1
			POTASSIUM	1.2000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.5200	mg/L	1
			SODIUM	110.0000	mg/L	1
			ZINC	0.0590	mg/L	1
HM-37	MW-HM37-07	07-JUN-93	SILVER	0.0150	mg/L	1
			ALUMINUM	0.2500	mg/L	1
			BARIUM	0.0280	mg/L	1
			CALCIUM	360.0000	mg/L	10
			COPPER	0.0210	mg/L	1
			POTASSIUM	27.0000	mg/L	1
			MAGNESIUM	120.0000	mg/L	1
			MANGANESE	0.9200	mg/L	1
			SODIUM	180.0000	mg/L	1
			ZINC	0.0100	mg/L	1
HM-39	MW-HM39-07	11-MAY-93	ALUMINUM	0.8000	mg/L	1
			BARIUM	0.0310	mg/L	1
			CALCIUM	730.0000	mg/L	10
			IRON	2.2000	mg/L	1
			POTASSIUM	2.2000	mg/L	1
			MAGNESIUM	44.0000	mg/L	1
			MANGANESE	0.0780	mg/L	1
			SODIUM	150.0000	mg/L	1
			ZINC	0.0330	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
HM-40	MW-HM40-07	04-MAY-93	ALUMINUM	1.6000	mg/L	1
			BARIUM	0.1500	mg/L	1
			CALCIUM	320.0000	mg/L	10
			IRON	0.4800	mg/L	1
			POTASSIUM	0.7000	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.2000	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0420	mg/L	1
HM-41	MW-HM41-07	05-MAY-93	ALUMINUM	0.3000	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	0.6100	mg/L	1
			MAGNESIUM	2.9000	mg/L	1
			SODIUM	23.0000	mg/L	1
HM-42	MW-HM42-07	04-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.0690	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.4800	mg/L	1
			MAGNESIUM	2.9000	mg/L	1
			MANGANESE	0.0500	mg/L	1
			SODIUM	11.0000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-43	MW-HM43-07	04-MAY-93	SILVER	0.0120	mg/L	1
			ALUMINUM	0.4300	mg/L	1
			BARIUM	0.0650	mg/L	1
			CALCIUM	240.0000	mg/L	1
			IRON	0.6500	mg/L	1
			MAGNESIUM	4.0000	mg/L	1
			MANGANESE	0.0430	mg/L	1
			SODIUM	5.9000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-44	MW-HM44-07	04-MAY-93	ALUMINUM	0.9100	mg/L	1
			BARIUM	0.0780	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.3100	mg/L	1
			POTASSIUM	0.5700	mg/L	1
			MAGNESIUM	2.5000	mg/L	1
			MANGANESE	0.0430	mg/L	1
			SODIUM	12.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-46	MW-HM46-07	05-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	520.0000	mg/L	10
			IRON	0.0880	mg/L	1
			POTASSIUM	0.7500	mg/L	1
			MAGNESIUM	5.3000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	26.0000	mg/L	1
HM-47	MW-HM47-07	27-MAY-93	ALUMINUM	0.2400	mg/L	1
			BARIUM	0.3200	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	0.7500	mg/L	1
			MAGNESIUM	4.3000	mg/L	1
			MANGANESE	1.0000	mg/L	1
			SODIUM	36.0000	mg/L	1
			ZINC	0.0270	mg/L	1
HM-48	MW-HM48-07	07-MAY-93	ALUMINUM	0.3200	mg/L	1
			BARIUM	0.0520	mg/L	1
			CALCIUM	71.0000	mg/L	1
			COPPER	0.1600	mg/L	1
			IRON	0.3100	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	3.9000	mg/L	1
			MANGANESE	0.0170	mg/L	1
			SODIUM	32.0000	mg/L	1
			ZINC	0.1700	mg/L	1
HM-49	MW-HM49-07	09-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	490.0000	mg/L	10
			IRON	0.2100	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	2.7000	mg/L	1
			MAGNESIUM	19.0000	mg/L	1
			MANGANESE	0.1200	mg/L	1
			SODIUM	12.0000	mg/L	1
			ZINC	0.0200	mg/L	1
HM-50	MW-HM50-07	14-MAY-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0320	mg/L	1
			CALCIUM	350.0000	mg/L	10
			IRON	4.3000	mg/L	1
			POTASSIUM	5.4000	mg/L	1
			MAGNESIUM	34.0000	mg/L	1
			MANGANESE	0.1100	mg/L	1
			SODIUM	250.0000	mg/L	1
			ZINC	0.1400	mg/L	1
HM-51	MW-HM51-07	06-JUN-93	ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0500	mg/L	1
			CALCIUM	860.0000	mg/L	10
			COPPER	0.0480	mg/L	1
			IRON	26.0000	mg/L	10
			POTASSIUM	3.7000	mg/L	1
			MAGNESIUM	82.0000	mg/L	1
			MANGANESE	0.5200	mg/L	1
			SODIUM	400.0000	mg/L	10
			ZINC	0.0160	mg/L	1
HM-52	MW-HM52-07	07-MAY-93	ALUMINUM	0.3800	mg/L	1
			BARIUM	0.0530	mg/L	1
			CALCIUM	96.0000	mg/L	1
			IRON	0.3400	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	2.7000	mg/L	1
			MANGANESE	0.0320	mg/L	1
			SODIUM	7.3000	mg/L	1
			ZINC	0.0490	mg/L	1
HM-53	MW-HM53-07	11-JUN-93	ARSENIC	0.0830	mg/L	1
			BARIUM	0.3300	mg/L	1
			CALCIUM	130.0000	mg/L	1
			CADMIUM	0.0100	mg/L	1
			IRON	24.0000	mg/L	10
			POTASSIUM	0.9100	mg/L	1
			MAGNESIUM	6.7000	mg/L	1
			MANGANESE	0.5000	mg/L	1
			SODIUM	36.0000	mg/L	1
			ZINC	0.0230	mg/L	1
HM-54	MW-HM54-07	18-MAY-93	ALUMINUM	0.7900	mg/L	1
			BARIUM	0.0790	mg/L	1
			CALCIUM	97.0000	mg/L	1
			CHROMIUM, TOTAL	0.0420	mg/L	1
			COPPER	0.0330	mg/L	1
			IRON	0.9200	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	2.2000	mg/L	1
			MANGANESE	0.0260	mg/L	1
			SODIUM	8.1000	mg/L	1
			ZINC	0.4100	mg/L	1
HM-54 DUP	MW2-HM54-07	18-MAY-93	ALUMINUM	0.7300	mg/L	1
			BARIUM	0.0790	mg/L	1
			CALCIUM	96.0000	mg/L	1
			CHROMIUM, TOTAL	0.0340	mg/L	1
			COPPER	0.0340	mg/L	1
			IRON	0.8800	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	2.1000	mg/L	1
			MANGANESE	0.0240	mg/L	1
			SODIUM	8.0000	mg/L	1
			LEAD	0.0570	mg/L	1
			ZINC	0.3700	mg/L	1
HM-55	MW-HM55-07	13-MAY-93	ALUMINUM	1.4000	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	550.0000	mg/L	10
			IRON	0.8600	mg/L	1
			POTASSIUM	2.6000	mg/L	1
			MAGNESIUM	5.6000	mg/L	1
			MANGANESE	0.8300	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			SODIUM	53.0000	mg/L	1
			LEAD	0.0820	mg/L	1
			ZINC	0.0940	mg/L	1
HM-56	MW-HM56-07	27-MAY-93	ALUMINUM	0.2800	mg/L	1
			BARIUM	0.5900	mg/L	1
			CALCIUM	300.0000	mg/L	1
			IRON	5.1000	mg/L	1
			POTASSIUM	2.1000	mg/L	1
			MAGNESIUM	7.3000	mg/L	1
			MANGANESE	0.1700	mg/L	1
			SODIUM	34.0000	mg/L	1
			ZINC	0.0130	mg/L	1
HM-57	MW-HM57-07	14-MAY-93	ALUMINUM	0.3600	mg/L	1
			BARIUM	0.0690	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	0.2200	mg/L	1
			POTASSIUM	3.9000	mg/L	1
			MAGNESIUM	9.2000	mg/L	1
			MANGANESE	0.0740	mg/L	1
			SODIUM	34.0000	mg/L	1
HM-58	MW-HM58-07	18-MAY-93	ALUMINUM	0.2700	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	620.0000	mg/L	10
			IRON	0.4900	mg/L	1
			POTASSIUM	0.8800	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	1.6000	mg/L	1
			SODIUM	86.0000	mg/L	1
HM-59	MW-HM59-07	17-MAY-93	ALUMINUM	0.4000	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	660.0000	mg/L	10
			IRON	0.4900	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.2300	mg/L	1
			SODIUM	78.0000	mg/L	1
HM-59 DUP	MW2-HM59-07	17-MAY-93	ALUMINUM	0.5900	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	670.0000	mg/L	10
			IRON	0.5300	mg/L	1
			POTASSIUM	2.7000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.2400	mg/L	1
			SODIUM	79.0000	mg/L	1
HM-60	MW-HM60-07	07-JUN-93	ALUMINUM	0.2000	mg/L	1
			BARIUM	0.0980	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.0750	mg/L	1
			POTASSIUM	0.5600	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			SODIUM	28.0000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-61	MW-HM61-07	10-MAY-93	ALUMINUM	0.7600	mg/L	1
			BARIUM	0.0780	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	6.1000	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.6500	mg/L	1
			SODIUM	15.0000	mg/L	1
			ZINC	0.0210	mg/L	1
HM-62	MW-HM62-07	09-MAY-93	ALUMINUM	0.7400	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	450.0000	mg/L	10
			IRON	0.4500	mg/L	1
			POTASSIUM	0.5800	mg/L	1
			MAGNESIUM	5.0000	mg/L	1
			MANGANESE	0.1500	mg/L	1
			SODIUM	88.0000	mg/L	1
HM-63	MW-HM63-07	07-JUN-93	ALUMINUM	0.3900	mg/L	1
			BARIUM	0.4700	mg/L	1
			CALCIUM	220.0000	mg/L	1
			CADMIUM	0.0070	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			IRON	9.4000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	6.3000	mg/L	1
			MANGANESE	1.5000	mg/L	1
			SODIUM	46.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-64	MW-HM64-07	08-MAY-93	ALUMINUM	0.2700	mg/L	1
			BARIUM	0.0530	mg/L	1
			CALCIUM	540.0000	mg/L	10
			IRON	0.3800	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	5.6000	mg/L	1
			MANGANESE	0.2800	mg/L	1
			SODIUM	110.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-65	MW-HM65-07	09-MAY-93	ALUMINUM	0.6900	mg/L	1
			BARIUM	0.0180	mg/L	1
			CALCIUM	970.0000	mg/L	10
			IRON	1.0000	mg/L	1
			POTASSIUM	2.3000	mg/L	1
			MAGNESIUM	71.0000	mg/L	1
			MANGANESE	0.3200	mg/L	1
			SODIUM	140.0000	mg/L	1
			LEAD	0.0910	mg/L	1
			ZINC	0.0870	mg/L	1
HM-65 DUP	MW2-HM65-07	09-MAY-93	ALUMINUM	0.3900	mg/L	1
			BARIUM	0.0190	mg/L	1
			CALCIUM	1000.0000	mg/L	10
			IRON	0.7000	mg/L	1
			POTASSIUM	2.3000	mg/L	1
			MAGNESIUM	70.0000	mg/L	1
			MANGANESE	0.3400	mg/L	1
			SODIUM	140.0000	mg/L	1
			ZINC	0.0850	mg/L	1
HM-66	MW-HM66-07	09-MAY-93	ALUMINUM	0.8400	mg/L	1
			BARIUM	0.0660	mg/L	1
			CALCIUM	860.0000	mg/L	10
			IRON	1.0000	mg/L	1
			POTASSIUM	0.8500	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.3800	mg/L	1
			SODIUM	45.0000	mg/L	1
HM-68	MW-HM68-07	25-MAY-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.1900	mg/L	1
			POTASSIUM	0.9800	mg/L	1
			MAGNESIUM	3.9000	mg/L	1
			MANGANESE	0.0230	mg/L	1
			SODIUM	11.0000	mg/L	1
			ZINC	0.0180	mg/L	1
HM-69	MW-HM69-07	14-MAY-93	BARIUM	0.0680	mg/L	1
			CALCIUM	620.0000	mg/L	10
			IRON	0.2000	mg/L	1
			POTASSIUM	2.0000	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	0.2900	mg/L	1
			SODIUM	11.0000	mg/L	1
			ZINC	0.0250	mg/L	1
HM-70	MW-HM70-07	26-MAY-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.0830	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	0.0610	mg/L	1
			POTASSIUM	0.6300	mg/L	1
			MAGNESIUM	2.9000	mg/L	1
			SODIUM	30.0000	mg/L	1
			ZINC	0.0170	mg/L	1
HM-71	MW-HM71-07	27-MAY-93	ALUMINUM	0.6800	mg/L	1
			BARIUM	0.0990	mg/L	1
			CALCIUM	100.0000	mg/L	1
			CHROMIUM, TOTAL	0.0410	mg/L	1
			IRON	0.2300	mg/L	1
			POTASSIUM	1.1000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	2.9000	mg/L	1
			MANGANESE	0.0280	mg/L	1
			SODIUM	100.0000	mg/L	1
HM-72	MW-HM72-07	22-MAY-93	ALUMINUM	0.4200	mg/L	1
			BARIUM	0.0900	mg/L	1
			CALCIUM	200.0000	mg/L	1
			IRON	0.3200	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	9.5000	mg/L	1
			MANGANESE	0.0540	mg/L	1
			SODIUM	120.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-72 DUP	MW2-HM72-07	22-MAY-93	ALUMINUM	0.3600	mg/L	1
			BARIUM	0.0920	mg/L	1
			CALCIUM	200.0000	mg/L	1
			IRON	0.2900	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	9.4000	mg/L	1
			MANGANESE	0.0550	mg/L	1
			SODIUM	120.0000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-73	MW-HM73-07	14-MAY-93	ALUMINUM	0.9500	mg/L	1
			BARIUM	0.0340	mg/L	1
			CALCIUM	730.0000	mg/L	10
			COPPER	0.0260	mg/L	1
			IRON	2.4000	mg/L	1
			POTASSIUM	4.6000	mg/L	1
			MAGNESIUM	46.0000	mg/L	1
			MANGANESE	0.0670	mg/L	1
			SODIUM	120.0000	mg/L	1
			ZINC	0.1400	mg/L	1
HM-74	MW-HM74-07	13-MAY-93	ALUMINUM	0.3300	mg/L	1
			BARIUM	0.0610	mg/L	1
			CALCIUM	480.0000	mg/L	10
			COPPER	0.0270	mg/L	1
			IRON	0.2800	mg/L	1
			POTASSIUM	4.4000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.2100	mg/L	1
			SODIUM	360.0000	mg/L	10
			ZINC	0.0540	mg/L	1
HM-74 DUP	MW2-HM74-07	13-MAY-93	ALUMINUM	0.2500	mg/L	1
			BARIUM	0.0590	mg/L	1
			CALCIUM	470.0000	mg/L	10
			COPPER	0.0250	mg/L	1
			IRON	0.2300	mg/L	1
			POTASSIUM	4.3000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.2000	mg/L	1
			SODIUM	350.0000	mg/L	10
			ZINC	0.0480	mg/L	1
HM-75	MW-HM75-07	11-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.0220	mg/L	1
			CALCIUM	500.0000	mg/L	10
			IRON	1.6000	mg/L	1
			POTASSIUM	4.7000	mg/L	1
			MAGNESIUM	28.0000	mg/L	1
			MANGANESE	0.0760	mg/L	1
			SODIUM	140.0000	mg/L	1
			LEAD	0.0600	mg/L	1
			ZINC	0.0630	mg/L	1
HM-76	MW-HM76-07	10-MAY-93	ALUMINUM	0.7000	mg/L	1
			BARIUM	0.0400	mg/L	1
			CALCIUM	430.0000	mg/L	10
			IRON	1.7000	mg/L	1
			POTASSIUM	3.1000	mg/L	1
			MAGNESIUM	21.0000	mg/L	1
			MANGANESE	0.1200	mg/L	1
			SODIUM	52.0000	mg/L	1
			ZINC	0.0440	mg/L	1
HM-76 DUP	MW2-HM76-07	10-MAY-93	ALUMINUM	0.8400	mg/L	1
			BARIUM	0.0380	mg/L	1
			CALCIUM	410.0000	mg/L	10

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			IRON	1.8000	mg/L	1
			POTASSIUM	3.2000	mg/L	1
			MAGNESIUM	19.0000	mg/L	1
			MANGANESE	0.0980	mg/L	1
			SODIUM	52.0000	mg/L	1
			ZINC	0.0340	mg/L	1
HM-77	MW-HM77-07	08-MAY-93	ALUMINUM	0.3900	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	170.0000	mg/L	1
			IRON	0.7600	mg/L	1
			POTASSIUM	0.5900	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	30.0000	mg/L	1
			ZINC	0.0130	mg/L	1
HM-79	MW-HM79-07	17-MAY-93	ALUMINUM	0.3700	mg/L	1
			BARIUM	0.0940	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.3900	mg/L	1
			POTASSIUM	0.8100	mg/L	1
			MAGNESIUM	4.4000	mg/L	1
			MANGANESE	0.0290	mg/L	1
			SODIUM	58.0000	mg/L	1
HM-80	MW-HM80-07	12-MAY-93	ALUMINUM	0.4100	mg/L	1
			BARIUM	0.0350	mg/L	1
			CALCIUM	470.0000	mg/L	5
			IRON	1.3000	mg/L	1
			POTASSIUM	2.1000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.0550	mg/L	1
			SODIUM	120.0000	mg/L	1
			ZINC	0.0480	mg/L	1
HM-81	MW-HM81-07	11-MAY-93	ALUMINUM	0.4800	mg/L	1
			BARIUM	0.0530	mg/L	1
			CALCIUM	210.0000	mg/L	1
			IRON	0.4000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.0430	mg/L	1
			SODIUM	72.0000	mg/L	1
			LEAD	0.0520	mg/L	1
HM-82	MW-HM82-07	25-MAY-93	ALUMINUM	1.3000	mg/L	1
			BARIUM	0.0580	mg/L	1
			CALCIUM	50.0000	mg/L	1
			IRON	1.2000	mg/L	1
			POTASSIUM	3.5000	mg/L	1
			MAGNESIUM	1.3000	mg/L	1
			MANGANESE	0.1100	mg/L	1
			SODIUM	5.2000	mg/L	1
			LEAD	0.0900	mg/L	1
			ZINC	0.0610	mg/L	1
HM-84	MW-HM84-07	05-MAY-93	ALUMINUM	0.6300	mg/L	1
			BARIUM	0.0650	mg/L	1
			CALCIUM	190.0000	mg/L	1
			IRON	0.4000	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.2800	mg/L	1
			SODIUM	79.0000	mg/L	1
HM-86	MW-HM86-07	25-MAY-93	BARIUM	0.0720	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	4.2000	mg/L	1
			SODIUM	18.0000	mg/L	1
			ZINC	0.9700	mg/L	1
HM-87	MW-HM87-07	05-JUN-93	SILVER	0.0380	mg/L	1
			ALUMINUM	0.2400	mg/L	1
			BARIUM	0.0660	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.1800	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	3.6000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MANGANESE	0.0270	mg/L	1
			SODIUM	13.0000	mg/L	1
			ZINC	0.0100	mg/L	1
HM-88	MW-HM88-07	24-MAY-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0870	mg/L	1
			CALCIUM	140.0000	mg/L	1
			CHROMIUM, TOTAL	0.1400	mg/L	1
			IRON	0.1900	mg/L	1
			POTASSIUM	0.7600	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			MANGANESE	0.0100	mg/L	1
			SODIUM	24.0000	mg/L	1
			ZINC	0.2300	mg/L	1
HM-89	MW-HM89-07	24-MAY-93	BARIUM	0.3000	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	1.2000	mg/L	1
			POTASSIUM	0.5200	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	29.0000	mg/L	1
			ZINC	1.3000	mg/L	1
HM-90	MW-HM90-07	21-MAY-93	BARIUM	0.1100	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.0610	mg/L	1
			POTASSIUM	3.5000	mg/L	1
			MAGNESIUM	3.5000	mg/L	1
			SODIUM	44.0000	mg/L	1
			ZINC	0.0240	mg/L	1
HM-90 DUP	MW2-HM90-07	21-MAY-93	BARIUM	0.1100	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.0780	mg/L	1
			POTASSIUM	3.6000	mg/L	1
			MAGNESIUM	3.6000	mg/L	1
			SODIUM	45.0000	mg/L	1
			ZINC	0.0390	mg/L	1
HM-91	MW-HM91-07	04-JUN-93	BARIUM	0.1100	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.4500	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	3.5000	mg/L	1
			SODIUM	52.0000	mg/L	1
			ZINC	0.1500	mg/L	1
HM-92	MW-HM92-07	15-MAY-93	BARIUM	0.1200	mg/L	1
			CALCIUM	140.0000	mg/L	1
			POTASSIUM	1.9000	mg/L	1
			MAGNESIUM	3.9000	mg/L	1
			SODIUM	53.0000	mg/L	1
			ZINC	0.0590	mg/L	1
HM-93	MW-HM93-07	23-MAY-93	ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0220	mg/L	1
			CALCIUM	480.0000	mg/L	5
			IRON	0.1300	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.0360	mg/L	1
			SODIUM	37.0000	mg/L	1
			ZINC	0.0220	mg/L	1
HM-94	MW-HM94-07	26-MAY-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	140.0000	mg/L	1
			CHROMIUM, TOTAL	0.2600	mg/L	1
			IRON	0.3100	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	3.6000	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0620	mg/L	1
HM-95	MW-HM95-07	27-MAY-93	ALUMINUM	0.3000	mg/L	1
			BARIUM	0.0800	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	0.7500	mg/L	1
			MAGNESIUM	3.1000	mg/L	1
			MANGANESE	0.0290	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			SODIUM	19.0000	mg/L	1
HM-96	MW-HM96-07	27-MAY-93	BARIUM	0.1600	mg/L	1
			CALCIUM	130.0000	mg/L	1
			CHROMIUM, TOTAL	0.0990	mg/L	1
			IRON	0.0620	mg/L	1
			POTASSIUM	2.1000	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			SODIUM	69.0000	mg/L	1
HM-97	MW-HM97-07	26-MAY-93	ALUMINUM	1.4000	mg/L	1
			BARIUM	0.2100	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.6600	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			MANGANESE	0.3400	mg/L	1
			SODIUM	89.0000	mg/L	1
			ZINC	0.0780	mg/L	1
HM-98	MW-HM98-07	26-MAY-9	ALUMINUM	5.5000	mg/L	1
			BARIUM	0.4200	mg/L	1
			BERYLLIUM	0.0027	mg/L	1
			CALCIUM	220.0000	mg/L	1
			IRON	13.0000	mg/L	1
			POTASSIUM	2.8000	mg/L	1
			MAGNESIUM	7.3000	mg/L	1
			MANGANESE	0.7200	mg/L	1
			SODIUM	78.0000	mg/L	1
			VANADIUM	0.0530	mg/L	1
			ZINC	1.1000	mg/L	1
HM-99	MW-HM99-07	27-MAY-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	160.0000	mg/L	1
			CHROMIUM, TOTAL	0.0760	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	2.3000	mg/L	1
			MAGNESIUM	3.9000	mg/L	1
			MANGANESE	0.0270	mg/L	1
			SODIUM	31.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-100	MW-HM100-07	05-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	640.0000	mg/L	10
			COPPER	0.0220	mg/L	1
			IRON	0.1800	mg/L	1
			POTASSIUM	0.6200	mg/L	1
			MAGNESIUM	5.7000	mg/L	1
			MANGANESE	0.4200	mg/L	1
			SODIUM	20.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-101	MW-HM101-07	04-MAY-93	BARIUM	0.0350	mg/L	1
			CALCIUM	600.0000	mg/L	10
			IRON	0.2000	mg/L	1
			POTASSIUM	3.4000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.2500	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-102	MW-HM102-07	05-MAY-93	ALUMINUM	1.3000	mg/L	1
			BARIUM	0.1800	mg/L	1
			CALCIUM	360.0000	mg/L	10
			IRON	1.6000	mg/L	1
			POTASSIUM	1.9000	mg/L	1
			MAGNESIUM	6.6000	mg/L	1
			MANGANESE	0.9600	mg/L	1
			SODIUM	13.0000	mg/L	1
			ZINC	0.0150	mg/L	1
HM-103	MW-HM103-07	26-MAY-93	ALUMINUM	0.5200	mg/L	1
			BARIUM	0.0820	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	0.2500	mg/L	1
			POTASSIUM	0.6000	mg/L	1
			MAGNESIUM	3.8000	mg/L	1
			MANGANESE	0.0500	mg/L	1
			SODIUM	17.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			LEAD	0.0500	mg/L	1
			ZINC	0.0930	mg/L	1
HM-104	MW-HM104-07	06-MAY-93	ALUMINUM	0.5400	mg/L	1
			BARIUM	0.0500	mg/L	1
			CALCIUM	960.0000	mg/L	5
			IRON	1.8000	mg/L	1
			POTASSIUM	4.3000	mg/L	1
			MAGNESIUM	28.0000	mg/L	1
			MANGANESE	0.3100	mg/L	1
			SODIUM	81.0000	mg/L	1
			ZINC	0.0960	mg/L	1
HM-105	MW-HM105-07	13-MAY-93	ALUMINUM	0.1800	mg/L	1
			BARIUM	0.0980	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	8.5000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.9300	mg/L	1
			SODIUM	51.0000	mg/L	1
HM-107	MW-HM107-07	07-MAY-93	ALUMINUM	0.6600	mg/L	1
			BARIUM	0.2000	mg/L	1
			CALCIUM	230.0000	mg/L	1
			IRON	2.3000	mg/L	1
			POTASSIUM	1.2000	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	0.4200	mg/L	1
			SODIUM	31.0000	mg/L	1
			ZINC	0.0200	mg/L	1
HM-108	MW-HM108-07	07-MAY-93	ALUMINUM	0.2400	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	160.0000	mg/L	1
			IRON	0.7100	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	8.1000	mg/L	1
			MANGANESE	0.1000	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0140	mg/L	1
HM-110	MW-HM110-07	02-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0510	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	0.1000	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			MANGANESE	0.0390	mg/L	1
			SODIUM	11.0000	mg/L	1
			ZINC	0.0120	mg/L	1
HM-111	MW-HM111-07	02-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0590	mg/L	1
			CALCIUM	110.0000	mg/L	1
			IRON	0.2800	mg/L	1
			MAGNESIUM	2.8000	mg/L	1
			SODIUM	13.0000	mg/L	1
			ZINC	0.0370	mg/L	1
HM-112	MW-HM112-07	03-JUN-93	BARIUM	0.0760	mg/L	1
			CALCIUM	110.0000	mg/L	1
			MAGNESIUM	3.2000	mg/L	1
			SODIUM	25.0000	mg/L	1
			ZINC	0.0390	mg/L	1
HM-113	MW-HM113-07	10-JUN-93	ALUMINUM	0.4000	mg/L	1
			BARIUM	0.0750	mg/L	1
			CALCIUM	82.0000	mg/L	1
			IRON	0.6000	mg/L	1
			POTASSIUM	4.1000	mg/L	1
			MAGNESIUM	2.1000	mg/L	1
			MANGANESE	0.1400	mg/L	1
			SODIUM	3.3000	mg/L	1
			ZINC	0.4900	mg/L	1
HM-114	MW-HM114-07	23-MAY-93	ALUMINUM	0.2900	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.2600	mg/L	1
			POTASSIUM	1.0000	mg/L	1
			MAGNESIUM	3.2000	mg/L	1
			MANGANESE	0.1100	mg/L	1
			SODIUM	18.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			ZINC	0.0140	mg/L	1
HM-115	MW-HM115-07	23-MAY-93	ALUMINUM	0.4600	mg/L	1
			BARIUM	0.1500	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.2900	mg/L	1
			POTASSIUM	2.3000	mg/L	1
			MAGNESIUM	3.5000	mg/L	1
			MANGANESE	0.1500	mg/L	1
			SODIUM	26.0000	mg/L	1
			ZINC	0.0150	mg/L	1
HM-116	MW-HM116-07	25-MAY-93	ALUMINUM	1.7000	mg/L	1
			BARIUM	0.1600	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	1.2000	mg/L	1
			POTASSIUM	2.2000	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.0750	mg/L	1
			SODIUM	46.0000	mg/L	1
			ZINC	0.0340	mg/L	1
HM-117	MW-HM117-07	25-MAY-93	ALUMINUM	0.1800	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CHROMIUM, TOTAL	0.0560	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	3.4000	mg/L	1
			MANGANESE	0.0130	mg/L	1
			SODIUM	92.0000	mg/L	1
			ZINC	0.0210	mg/L	1
HM-118	MW-HM118-07	25-MAY-93	ALUMINUM	0.2100	mg/L	1
			BARIUM	0.2500	mg/L	1
			CALCIUM	240.0000	mg/L	1
			IRON	0.2000	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	7.7000	mg/L	1
			MANGANESE	0.0240	mg/L	1
			SODIUM	170.0000	mg/L	1
			ZINC	0.0110	mg/L	1
HM-118 DUP	MW2-HM118-07	25-MAY-93	BARIUM	0.2500	mg/L	1
			CALCIUM	240.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	7.6000	mg/L	1
			MANGANESE	0.0250	mg/L	1
			SODIUM	170.0000	mg/L	1
HM-119	MW-HM119-07	21-MAY-93	BARIUM	0.1400	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.2500	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	9.1000	mg/L	1
			MANGANESE	0.0870	mg/L	1
			SODIUM	69.0000	mg/L	1
			ZINC	0.0430	mg/L	1
HM-119 DUP	MW2-HM119-07	21-MAY-93	BARIUM	0.1400	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.2700	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	9.6000	mg/L	1
			MANGANESE	0.0920	mg/L	1
			SODIUM	66.0000	mg/L	1
			ZINC	0.0590	mg/L	1
HM-120	MW-HM120-07	21-MAY-93	ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0210	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.0850	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	30.0000	mg/L	1
			MANGANESE	0.3300	mg/L	1
			SODIUM	85.0000	mg/L	1
HM-121	MW-HM121-07	26-MAY-93	ALUMINUM	0.2900	mg/L	1
			BARIUM	0.2600	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.1600	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	0.9800	mg/L	1
			MAGNESIUM	5.9000	mg/L	1
			MANGANESE	0.0460	mg/L	1
			SODIUM	150.0000	mg/L	1
HM-121 DUP	MW2-HM121-07	26-MAY-93	ALUMINUM	0.2700	mg/L	1
			BARIUM	0.2600	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	5.9000	mg/L	1
			MANGANESE	0.0480	mg/L	1
			SODIUM	150.0000	mg/L	1
HM-122	MW-HM122-07	21-MAY-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.5000	mg/L	1
			CALCIUM	170.0000	mg/L	1
			IRON	2.8000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	5.9000	mg/L	1
			MANGANESE	1.4000	mg/L	1
			SODIUM	19.0000	mg/L	1
			ZINC	0.0190	mg/L	1
HM-123	MW-HM123-07	21-MAY-93	ALUMINUM	0.5000	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.3800	mg/L	1
			POTASSIUM	1.0000	mg/L	1
			MAGNESIUM	5.7000	mg/L	1
			MANGANESE	0.1300	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.0100	mg/L	1
HM-123 DUP	MW2-HM123-07	21-MAY-93	ALUMINUM	0.5500	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	0.4900	mg/L	1
			POTASSIUM	1.0000	mg/L	1
			MAGNESIUM	5.7000	mg/L	1
			MANGANESE	0.1300	mg/L	1
			SODIUM	22.0000	mg/L	1
			ZINC	0.0350	mg/L	1
HM-124	MW-HM124-07	20-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	0.0780	mg/L	1
			POTASSIUM	0.9000	mg/L	1
			MAGNESIUM	3.3000	mg/L	1
			MANGANESE	0.0150	mg/L	1
			SODIUM	9.9000	mg/L	1
HM-125	MW-HM125-07	20-MAY-93	ALUMINUM	0.5500	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	130.0000	mg/L	1
			IRON	0.4100	mg/L	1
			POTASSIUM	0.6800	mg/L	1
			MAGNESIUM	3.7000	mg/L	1
			MANGANESE	0.1000	mg/L	1
			SODIUM	21.0000	mg/L	1
HM-127	MW-HM127-07	19-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.0640	mg/L	1
			CALCIUM	93.0000	mg/L	1
			IRON	0.1800	mg/L	1
			MAGNESIUM	3.9000	mg/L	1
			MANGANESE	0.0330	mg/L	1
			SODIUM	7.3000	mg/L	1
W-128L	MW-W128L-07	19-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0210	mg/L	1
			CALCIUM	620.0000	mg/L	10
			IRON	0.2900	mg/L	1
			POTASSIUM	5.6000	mg/L	1
			MAGNESIUM	20.0000	mg/L	1
			MANGANESE	0.1300	mg/L	1
			SODIUM	48.0000	mg/L	1
W-131L	MW-W131L-07	04-JUN-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.0220	mg/L	1
			CALCIUM	890.0000	mg/L	10

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			COPPER	0.0200	mg/L	1
			IRON	0.8600	mg/L	1
			POTASSIUM	3.0000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.2100	mg/L	1
			SODIUM	47.0000	mg/L	1
			ZINC	0.0300	mg/L	1
W-131U	MW-W131U-07	04-JUN-93	ALUMINUM	2.4000	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	440.0000	mg/L	10
			IRON	2.1000	mg/L	1
			MAGNESIUM	7.2000	mg/L	1
			MANGANESE	2.5000	mg/L	1
			SODIUM	35.0000	mg/L	1
			ZINC	0.0120	mg/L	1
W-133L	MW-W133L-07	04-JUN-93	ALUMINUM	0.5400	mg/L	1
			ARSENIC	0.1900	mg/L	1
			BARIUM	0.3600	mg/L	1
			CALCIUM	550.0000	mg/L	10
			IRON	13.0000	mg/L	1
			POTASSIUM	0.6000	mg/L	1
			MAGNESIUM	8.5000	mg/L	1
			MANGANESE	1.1000	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0380	mg/L	1
W-134	MW-W134-07	14-MAY-93	ALUMINUM	0.1000	mg/L	1
			BARIUM	0.0950	mg/L	1
			CALCIUM	110.0000	mg/L	1
			COPPER	0.0750	mg/L	1
			IRON	7.3000	mg/L	1
			MAGNESIUM	19.0000	mg/L	1
			MANGANESE	0.2200	mg/L	1
			SODIUM	73.0000	mg/L	1
			ZINC	0.0880	mg/L	1
W-135	MW-W135-07	12-MAY-93	ALUMINUM	0.1800	mg/L	1
			BARIUM	0.0230	mg/L	1
			CALCIUM	780.0000	mg/L	10
			COPPER	0.0520	mg/L	1
			IRON	0.3700	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	66.0000	mg/L	1
			MANGANESE	0.1900	mg/L	1
			SODIUM	670.0000	mg/L	10
			ZINC	0.1100	mg/L	1
W-136	MW-W136-07	09-MAY-93	ALUMINUM	0.1900	mg/L	1
			BARIUM	0.6300	mg/L	1
			CALCIUM	430.0000	mg/L	10
			IRON	7.8000	mg/L	1
			POTASSIUM	0.6900	mg/L	1
			MAGNESIUM	6.4000	mg/L	1
			MANGANESE	0.7700	mg/L	1
			SODIUM	66.0000	mg/L	1
W-137	MW-W137-07	07-MAY-93	ALUMINUM	0.4000	mg/L	1
			BARIUM	0.3700	mg/L	1
			CALCIUM	910.0000	mg/L	5
			COPPER	0.0280	mg/L	1
			IRON	0.8500	mg/L	1
			POTASSIUM	0.8700	mg/L	1
			MAGNESIUM	9.0000	mg/L	1
			MANGANESE	0.4900	mg/L	1
			SODIUM	31.0000	mg/L	1
			ZINC	0.0240	mg/L	1
W-139L	MW-W139L-07	11-JUN-93	BARIUM	7.9000	mg/L	1
			CALCIUM	450.0000	mg/L	10
			IRON	0.1200	mg/L	1
			POTASSIUM	3.1000	mg/L	1
			MAGNESIUM	8.4000	mg/L	1
			MANGANESE	0.2800	mg/L	1
			SODIUM	58.0000	mg/L	1
			SELENIUM	0.1000	mg/L	1
W-139U	MW-W139U-07	13-JUN-93	ALUMINUM	0.1600	mg/L	1
			ARSENIC	0.0510	mg/L	1
			BARIUM	2.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			CALCIUM	440.0000	mg/L	10
			IRON	4.7000	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	9.0000	mg/L	1
			MANGANESE	0.7400	mg/L	1
			SODIUM	78.0000	mg/L	1
			ZINC	0.0130	mg/L	1
W-140L	MW-W140L-07	10-JUN-93	ALUMINUM	0.5400	mg/L	1
			ARSENIC	0.0550	mg/L	1
			BARIUM	1.9000	mg/L	1
			CALCIUM	290.0000	mg/L	1
			CADMIUM	0.0070	mg/L	1
			IRON	11.0000	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	7.9000	mg/L	1
			MANGANESE	0.6100	mg/L	1
			SODIUM	61.0000	mg/L	1
			ZINC	0.0110	mg/L	1
W-141L	MW-W141L-07	13-JUN-93	ALUMINUM	13.0000	mg/L	1
			ARSENIC	0.0890	mg/L	1
			BARIUM	3.2000	mg/L	1
			CALCIUM	370.0000	mg/L	10
			CADMIUM	0.0110	mg/L	1
			COPPER	0.0550	mg/L	1
			IRON	27.0000	mg/L	10
			POTASSIUM	5.7000	mg/L	1
			MAGNESIUM	9.5000	mg/L	1
			MANGANESE	0.5200	mg/L	1
			SODIUM	41.0000	mg/L	1
			VANADIUM	0.0510	mg/L	1
			ZINC	0.1100	mg/L	1
W-141U	MW-W141U-07	14-JUN-93	ALUMINUM	0.1800	mg/L	1
			ARSENIC	0.0740	mg/L	1
			BARIUM	5.1000	mg/L	1
			CALCIUM	280.0000	mg/L	1
			CADMIUM	0.0060	mg/L	1
			COPPER	0.0220	mg/L	1
			IRON	9.7000	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	7.1000	mg/L	1
			MANGANESE	0.4800	mg/L	1
			SODIUM	80.0000	mg/L	1
			NICKEL	0.0460	mg/L	1
			ZINC	0.0450	mg/L	1
W-143	MW-W143-07	13-MAY-93	ALUMINUM	1.1000	mg/L	1
			BARIUM	0.2200	mg/L	1
			CALCIUM	610.0000	mg/L	10
			IRON	1.9000	mg/L	1
			POTASSIUM	0.7700	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	1.5000	mg/L	1
			SODIUM	240.0000	mg/L	1
			ZINC	0.0270	mg/L	1
W-144	MW-W144-07	04-JUN-93	BARIUM	0.1200	mg/L	1
			CALCIUM	400.0000	mg/L	10
			COPPER	0.0310	mg/L	1
			IRON	0.1400	mg/L	1
			POTASSIUM	0.8000	mg/L	1
			MAGNESIUM	4.5000	mg/L	1
			MANGANESE	0.1900	mg/L	1
			SODIUM	110.0000	mg/L	1
			ZINC	0.0150	mg/L	1
W-145	MW-W145-07	07-MAY-93	ALUMINUM	0.6600	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	570.0000	mg/L	5
			IRON	0.6000	mg/L	1
			POTASSIUM	4.8000	mg/L	1
			MAGNESIUM	6.8000	mg/L	1
			MANGANESE	0.5800	mg/L	1
			SODIUM	28.0000	mg/L	1
			ZINC	0.0400	mg/L	1
W-146	MW-W146-07	09-MAY-93	ALUMINUM	0.6700	mg/L	1
			BARIUM	0.2100	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			CALCIUM	710.0000	mg/L	10
			IRON	2.2000	mg/L	1
			POTASSIUM	1.5000	mg/L	1
			MAGNESIUM	5.1000	mg/L	1
			MANGANESE	0.7300	mg/L	1
			SODIUM	40.0000	mg/L	1
			ZINC	0.0440	mg/L	1
W-147	MW-W147-07	10-MAY-93	ALUMINUM	0.5100	mg/L	1
			BARIUM	0.0140	mg/L	1
			CALCIUM	12.0000	mg/L	1
			IRON	0.2800	mg/L	1
			MAGNESIUM	0.3400	mg/L	1
			MANGANESE	0.0120	mg/L	1
			SODIUM	140.0000	mg/L	1
W-148	MW-W148-07	10-JUN-93	ALUMINUM	0.4000	mg/L	1
			ARSENIC	0.1100	mg/L	1
			BARIUM	0.5100	mg/L	1
			CALCIUM	190.0000	mg/L	1
			CADMIUM	0.0110	mg/L	1
			IRON	18.0000	mg/L	1
			POTASSIUM	0.7400	mg/L	1
			MAGNESIUM	4.0000	mg/L	1
			MANGANESE	0.4200	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0150	mg/L	1
W-148	MW2-W148-07	10-JUN-93	ALUMINUM	0.1000	mg/L	1
			BARIUM	0.5300	mg/L	1
			CALCIUM	190.0000	mg/L	1
			IRON	1.8000	mg/L	1
			POTASSIUM	0.8800	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.4000	mg/L	1
			SODIUM	44.0000	mg/L	1
			ZINC	0.0130	mg/L	1
W-149	MW-W149-07	26-MAY-93	ALUMINUM	0.4100	mg/L	1
			BARIUM	0.1700	mg/L	1
			CALCIUM	190.0000	mg/L	1
			CHROMIUM, TOTAL	0.6000	mg/L	1
			IRON	0.1800	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	5.0000	mg/L	1
			MANGANESE	0.0460	mg/L	1
			SODIUM	27.0000	mg/L	1
			ZINC	0.0270	mg/L	1
W-150L	MW-W150L-07	02-JUN-93	ALUMINUM	0.3300	mg/L	1
			BARIUM	0.0230	mg/L	1
			CALCIUM	660.0000	mg/L	10
			COPPER	0.0500	mg/L	1
			IRON	1.0000	mg/L	1
			POTASSIUM	6.0000	mg/L	1
			MAGNESIUM	27.0000	mg/L	1
			MANGANESE	0.0540	mg/L	1
			SODIUM	41.0000	mg/L	1
			ZINC	0.0450	mg/L	1
W-151	MW-W151-07	25-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.2600	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	3.8000	mg/L	1
			MANGANESE	0.0380	mg/L	1
			SODIUM	14.0000	mg/L	1
			ZINC	0.0110	mg/L	1
W-152	MW-W152-07	20-MAY-93	ALUMINUM	0.2500	mg/L	1
			BARIUM	0.0290	mg/L	1
			CALCIUM	670.0000	mg/L	10
			IRON	0.3100	mg/L	1
			POTASSIUM	9.2000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.0330	mg/L	1
			SODIUM	62.0000	mg/L	1
			ZINC	0.0170	mg/L	1
W-153	MW-W153-07	25-MAY-93	ALUMINUM	0.4600	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			BARIUM	0.1400	mg/L	1
			CALCIUM	170.0000	mg/L	1
			CHROMIUM, TOTAL	0.0380	mg/L	1
			IRON	0.3600	mg/L	1
			POTASSIUM	1.6000	mg/L	1
			MAGNESIUM	4.5000	mg/L	1
			MANGANESE	0.0680	mg/L	1
			SODIUM	19.0000	mg/L	1
			ZINC	0.0170	mg/L	1
W-154	MW-W154-07	03-JUN-93	ALUMINUM	0.7200	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	120.0000	mg/L	1
			CHROMIUM, TOTAL	1.1000	mg/L	1
			IRON	0.3900	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	4.2000	mg/L	1
			MANGANESE	0.0220	mg/L	1
			MOLYBDENUM	0.1000	mg/L	1
			SODIUM	270.0000	mg/L	1
			ZINC	0.0190	mg/L	1
W-155	MW-W155-07	27-MAY-93	ALUMINUM	0.4000	mg/L	1
			BARIUM	0.1900	mg/L	1
			CALCIUM	250.0000	mg/L	1
			IRON	4.4000	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	19.0000	mg/L	1
			MANGANESE	0.4600	mg/L	1
			SODIUM	89.0000	mg/L	1
			ZINC	0.0130	mg/L	1
W-156	MW-W156-07	27-MAY-93	ALUMINUM	0.5600	mg/L	1
			BARIUM	0.1600	mg/L	1
			CALCIUM	420.0000	mg/L	10
			IRON	0.5200	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	6.3000	mg/L	1
			MANGANESE	0.3900	mg/L	1
			SODIUM	29.0000	mg/L	1
			ZINC	0.0130	mg/L	1
W-157	MW-W157-07	12-MAY-93	ALUMINUM	0.6400	mg/L	1
			BARIUM	0.0240	mg/L	1
			CALCIUM	900.0000	mg/L	5
			COPPER	0.0240	mg/L	1
			IRON	1.4000	mg/L	1
			POTASSIUM	4.2000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.2400	mg/L	1
			SODIUM	130.0000	mg/L	1
			ZINC	0.0260	mg/L	1
W-158	MW-W158-07	06-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.1300	mg/L	1
			CALCIUM	350.0000	mg/L	10
			COPPER	0.0350	mg/L	1
			IRON	0.0660	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	4.4000	mg/L	1
			MANGANESE	0.2500	mg/L	1
			SODIUM	36.0000	mg/L	1
			ZINC	0.0120	mg/L	1
W-159	MW-W159-07	05-JUN-93	ALUMINUM	0.1600	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	360.0000	mg/L	10
			IRON	0.0890	mg/L	1
			POTASSIUM	0.8200	mg/L	1
			MAGNESIUM	4.3000	mg/L	1
			MANGANESE	0.1700	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0180	mg/L	1
W-160	MW-W160-07	05-JUN-93	ALUMINUM	0.1500	mg/L	1
			BARIUM	0.0880	mg/L	1
			CALCIUM	250.0000	mg/L	1
			COPPER	0.0200	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	0.8000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	3.1000	mg/L	1
			MANGANESE	0.1500	mg/L	1
			SODIUM	13.0000	mg/L	1
W-162	MW-W162-07A	05-JUN-93	SILVER	0.0180	mg/L	1
			ALUMINUM	0.2800	mg/L	1
			BARIUM	0.0940	mg/L	1
			CALCIUM	140.0000	mg/L	1
			IRON	0.7800	mg/L	1
			POTASSIUM	1.3000	mg/L	1
			MAGNESIUM	5.4000	mg/L	1
			MANGANESE	0.4400	mg/L	1
			SODIUM	10.0000	mg/L	1
W-163	MW-W163-07	04-JUN-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.4700	mg/L	1
			CALCIUM	690.0000	mg/L	10
			IRON	9.4000	mg/L	1
			POTASSIUM	1.7000	mg/L	1
			MAGNESIUM	8.8000	mg/L	1
			MANGANESE	2.4000	mg/L	1
			SODIUM	26.0000	mg/L	1
			ZINC	0.0130	mg/L	1
CARSWELL AFB UPPER ZONE WELLS						
LF04-01	MW-LF0401-07	19-MAY-93	ALUMINUM	1.1000	mg/L	1
			BARIUM	0.1600	mg/L	1
			CALCIUM	250.0000	mg/L	1
			IRON	0.7900	mg/L	1
			POTASSIUM	0.6500	mg/L	1
			MAGNESIUM	5.7000	mg/L	1
			MANGANESE	0.3000	mg/L	1
			SODIUM	20.0000	mg/L	1
			ZINC	0.0260	mg/L	1
LF04-02	MW-LF0402-07	22-MAY-93	ALUMINUM	1.7000	mg/L	1
			BARIUM	0.2600	mg/L	1
			CALCIUM	630.0000	mg/L	5
			IRON	0.7000	mg/L	1
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	9.9000	mg/L	1
			MANGANESE	0.6700	mg/L	1
			SODIUM	26.0000	mg/L	1
			ZINC	0.0160	mg/L	1
LF04-04	MW-LF0404-07	22-MAY-93	ALUMINUM	0.6000	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	290.0000	mg/L	1
			IRON	0.7400	mg/L	1
			POTASSIUM	2.0000	mg/L	1
			MAGNESIUM	8.1000	mg/L	1
			MANGANESE	0.2500	mg/L	1
			SODIUM	27.0000	mg/L	1
			ZINC	0.0120	mg/L	1
LF04-4A	MW-LF044A-07	18-MAY-93	ALUMINUM	1.4000	mg/L	1
			BARIUM	0.1800	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.3500	mg/L	1
			POTASSIUM	0.7200	mg/L	1
			MAGNESIUM	4.8000	mg/L	1
			MANGANESE	0.8800	mg/L	1
			SODIUM	28.0000	mg/L	1
			ZINC	0.0180	mg/L	1
LF04-4B	MW-LF044B-07	18-MAY-93	ALUMINUM	1.1000	mg/L	1
			BARIUM	0.1900	mg/L	1
			CALCIUM	350.0000	mg/L	10
			IRON	1.9000	mg/L	1
			POTASSIUM	1.0000	mg/L	1
			MAGNESIUM	6.7000	mg/L	1
			MANGANESE	1.1000	mg/L	1
			SODIUM	30.0000	mg/L	1
			ZINC	0.0170	mg/L	1
LF04-4C	MW-LF044C-07	18-MAY-93	ALUMINUM	0.7100	mg/L	1
			BARIUM	0.8600	mg/L	1
			CALCIUM	370.0000	mg/L	10
			COPPER	0.0260	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	0.9300	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	11.0000	mg/L	1
			MANGANESE	12.0000	mg/L	1
			SODIUM	45.0000	mg/L	1
			NICKEL	0.0500	mg/L	1
			ZINC	0.0190	mg/L	1
LF04-4G	MW-LF044G-07	23-MAY-93	ALUMINUM	4.5000	mg/L	1
			BARIUM	0.2000	mg/L	1
			CALCIUM	820.0000	mg/L	5
			COPPER	0.0250	mg/L	1
			IRON	4.8000	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	1.1000	mg/L	1
			SODIUM	25.0000	mg/L	1
			ZINC	0.0220	mg/L	1
LF04-10	MW-LF0410-07	18-MAY-93	ALUMINUM	1.4000	mg/L	1
			BARIUM	0.2200	mg/L	1
			CALCIUM	470.0000	mg/L	10
			IRON	0.6400	mg/L	1
			POTASSIUM	0.9100	mg/L	1
			MAGNESIUM	7.5000	mg/L	1
			MANGANESE	0.5500	mg/L	1
			SODIUM	23.0000	mg/L	1
			ZINC	0.0480	mg/L	1
LF05-01	MW-LF0501-07	19-MAY-93	ALUMINUM	0.7400	mg/L	1
			BARIUM	0.4100	mg/L	1
			CALCIUM	170.0000	mg/L	1
			CADMIUM	0.0058	mg/L	1
			IRON	9.1000	mg/L	1
			POTASSIUM	3.7000	mg/L	1
			MAGNESIUM	9.6000	mg/L	1
			MANGANESE	0.4000	mg/L	1
			SODIUM	22.0000	mg/L	1
			ZINC	0.0160	mg/L	1
LF05-02	MW-LF0502-07	20-MAY-93	ALUMINUM	0.7400	mg/L	1
			ARSENIC	0.0760	mg/L	1
			BARIUM	0.3000	mg/L	1
			CALCIUM	220.0000	mg/L	1
			IRON	13.0000	mg/L	1
			POTASSIUM	2.8000	mg/L	1
			MAGNESIUM	8.2000	mg/L	1
			MANGANESE	1.1000	mg/L	1
			SODIUM	20.0000	mg/L	1
LF05-5A	MW-LF055A-07	21-MAY-93	ALUMINUM	0.9600	mg/L	1
			BARIUM	0.1500	mg/L	1
			CALCIUM	220.0000	mg/L	1
			IRON	0.5200	mg/L	1
			POTASSIUM	0.5900	mg/L	1
			MAGNESIUM	7.6000	mg/L	1
			MANGANESE	0.2800	mg/L	1
			SODIUM	24.0000	mg/L	1
			ZINC	0.0150	mg/L	1
LF05-5B	MW-LF055B-07	18-MAY-93	ALUMINUM	0.4500	mg/L	1
			BARIUM	0.4300	mg/L	1
			CALCIUM	170.0000	mg/L	1
			IRON	9.4000	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	8.3000	mg/L	1
			MANGANESE	2.5000	mg/L	1
			SODIUM	26.0000	mg/L	1
			ZINC	0.0340	mg/L	1
LF05-5E	MW-LF055E-07	21-MAY-93	ALUMINUM	0.8400	mg/L	1
			BARIUM	0.1800	mg/L	1
			CALCIUM	720.0000	mg/L	10
			IRON	0.8700	mg/L	1
			POTASSIUM	1.1000	mg/L	1
			MAGNESIUM	9.0000	mg/L	1
			MANGANESE	0.9700	mg/L	1
			SODIUM	33.0000	mg/L	1
LF05-14	MW-LF0514-07	23-MAY-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.2700	mg/L	1
			CALCIUM	490.0000	mg/L	5
			IRON	0.6000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	1.4000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.7800	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.0220	mg/L	1
LF05-18	MW-LF0518-07	22-MAY-93	ALUMINUM	2.7000	mg/L	1
			BARIUM	0.1700	mg/L	1
			CALCIUM	250.0000	mg/L	1
			IRON	2.4000	mg/L	1
			POTASSIUM	1.8000	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	0.2200	mg/L	1
			SODIUM	39.0000	mg/L	1
			ZINC	0.0120	mg/L	1
LF05-19	MW-LF0519-07	18-MAY-93	ALUMINUM	0.3900	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	190.0000	mg/L	1
			IRON	0.5900	mg/L	1
			POTASSIUM	1.9000	mg/L	1
			MAGNESIUM	9.5000	mg/L	1
			MANGANESE	0.1200	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0490	mg/L	1
FT08-11A	MW-FT0811A-07	19-MAY-93	ALUMINUM	0.8800	mg/L	1
			BARIUM	0.1600	mg/L	1
			CALCIUM	200.0000	mg/L	1
			IRON	0.8300	mg/L	1
			POTASSIUM	1.6000	mg/L	1
			MAGNESIUM	7.6000	mg/L	1
			MANGANESE	0.3300	mg/L	1
			SODIUM	62.0000	mg/L	1
			ZINC	0.0130	mg/L	1
FT08-11B	MW-FT0811B-07	19-MAY-93	ALUMINUM	0.2000	mg/L	1
			BARIUM	0.2300	mg/L	1
			CALCIUM	220.0000	mg/L	1
			CADMIUM	0.0130	mg/L	1
			IRON	20.0000	mg/L	1
			POTASSIUM	0.8300	mg/L	1
			MAGNESIUM	13.0000	mg/L	1
			MANGANESE	1.9000	mg/L	1
			SODIUM	59.0000	mg/L	1
			ZINC	0.0130	mg/L	1
FT09-12A	MW-FT0912A-07	19-MAY-93	ALUMINUM	0.6300	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	240.0000	mg/L	1
			IRON	0.4000	mg/L	1
			POTASSIUM	0.5700	mg/L	1
			MAGNESIUM	4.5000	mg/L	1
			MANGANESE	0.1100	mg/L	1
			SODIUM	17.0000	mg/L	1
			ZINC	0.0110	mg/L	1
FT09-12B	MW-FT0912B-07	19-MAY-93	ALUMINUM	0.2200	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	3.5000	mg/L	1
			MAGNESIUM	5.0000	mg/L	1
			MANGANESE	1.3000	mg/L	1
			SODIUM	22.0000	mg/L	1
PALUXY UPPER SAND						
P-8US	MW-P8US-07	10-JUN-93	ALUMINUM	0.4800	mg/L	1
			BARIUM	0.0640	mg/L	1
			CALCIUM	35.0000	mg/L	1
			POTASSIUM	7.6000	mg/L	1
			MAGNESIUM	0.3000	mg/L	1
			SODIUM	24.0000	mg/L	1
P-9US	MW-P9US-07	08-JUN-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.0290	mg/L	1
			CALCIUM	150.0000	mg/L	1
			POTASSIUM	2.4000	mg/L	1
			MAGNESIUM	7.5000	mg/L	1
			SODIUM	21.0000	mg/L	1
P-12US	MW-P12US-07	10-MAY-93	ALUMINUM	1.9000	mg/L	1
			BARIUM	0.0330	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			CALCIUM	91.0000	mg/L	1
			IRON	0.1600	mg/L	1
			POTASSIUM	5.7000	mg/L	1
			SODIUM	29.0000	mg/L	1
			ZINC	0.1100	mg/L	1
P-14US	MW-P14US-07	25-MAY-93	ALUMINUM	0.1800	mg/L	1
			BARIUM	0.0630	mg/L	1
			CALCIUM	25.0000	mg/L	1
			IRON	0.0920	mg/L	1
			POTASSIUM	5.7000	mg/L	1
			MAGNESIUM	3.0000	mg/L	1
			SODIUM	42.0000	mg/L	1
			ZINC	0.0160	mg/L	1
P-15US	MW-P15US-07	24-MAY-93	ALUMINUM	0.5400	mg/L	1
			BARIUM	0.1000	mg/L	1
			CALCIUM	57.0000	mg/L	1
			IRON	0.0760	mg/L	1
			POTASSIUM	20.0000	mg/L	1
			MAGNESIUM	0.3900	mg/L	1
			SODIUM	47.0000	mg/L	1
			ZINC	0.0180	mg/L	1
P-16US	MW-P16US-07	24-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0710	mg/L	1
			CALCIUM	29.0000	mg/L	1
			IRON	9.4000	mg/L	1
			POTASSIUM	5.4000	mg/L	1
			MAGNESIUM	5.0000	mg/L	1
			SODIUM	33.0000	mg/L	1
			ZINC	0.0150	mg/L	1
P-18US	MW-P18US-07	26-MAY-93	ALUMINUM	0.4500	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	100.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	2.8000	mg/L	1
			MAGNESIUM	10.0000	mg/L	1
			MANGANESE	0.0330	mg/L	1
			SODIUM	30.0000	mg/L	1
			ZINC	0.0460	mg/L	1
P-19US	MW-P19US-07	05-JUN-93	ALUMINUM	0.4300	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	130.0000	mg/L	1
			CHROMIUM, TOTAL	0.0600	mg/L	1
			COPPER	0.0260	mg/L	1
			IRON	0.8100	mg/L	1
			POTASSIUM	2.0000	mg/L	1
			MAGNESIUM	6.1000	mg/L	1
			MANGANESE	0.0490	mg/L	1
			SODIUM	29.0000	mg/L	1
			ZINC	0.0330	mg/L	1
UPPER PALUXY						
P-5UN	MW-P5UN-07	18-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0410	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	4.1000	mg/L	1
			POTASSIUM	4.8000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.1400	mg/L	1
			SODIUM	46.0000	mg/L	1
			ZINC	1.5000	mg/L	1
P-6U	MW-P6U-07	12-MAY-93	ALUMINUM	1.6000	mg/L	1
			BARIUM	0.0640	mg/L	1
			CALCIUM	160.0000	mg/L	1
			CADMIUM	0.0060	mg/L	1
			IRON	52.0000	mg/L	10
			POTASSIUM	10.0000	mg/L	1
			MAGNESIUM	8.7000	mg/L	1
			MANGANESE	0.3700	mg/L	1
			SODIUM	52.0000	mg/L	1
			LEAD	0.5700	mg/L	1
			ZINC	35.0000	mg/L	10
P-7U	MW-P7U-07	10-JUN-93	BARIUM	0.0870	mg/L	1
			CALCIUM	160.0000	mg/L	1
			IRON	2.7000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	9.3000	mg/L	1
			MAGNESIUM	52.0000	mg/L	1
			MANGANESE	0.0770	mg/L	1
			SODIUM	49.0000	mg/L	1
			NICKEL	0.1000	mg/L	1
			ZINC	0.3600	mg/L	1
P-8UN	MW-P8UN-07	09-JUN-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0650	mg/L	1
			CALCIUM	67.0000	mg/L	1
			POTASSIUM	5.9000	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.0140	mg/L	1
			SODIUM	57.0000	mg/L	1
P-9UN	MW-P9UN-07	20-MAY-93	BARIUM	0.0940	mg/L	1
			CALCIUM	74.0000	mg/L	1
			IRON	2.5000	mg/L	1
			POTASSIUM	6.9000	mg/L	1
			MAGNESIUM	26.0000	mg/L	1
			MANGANESE	0.0380	mg/L	1
			SODIUM	61.0000	mg/L	1
			LEAD	0.0700	mg/L	1
			ZINC	4.7000	mg/L	1
P-10U	MW-P10U-07	11-MAY-93	ALUMINUM	0.2600	mg/L	1
			BARIUM	0.0520	mg/L	1
			CALCIUM	160.0000	mg/L	1
			IRON	5.4000	mg/L	1
			POTASSIUM	3.7000	mg/L	1
			MAGNESIUM	8.3000	mg/L	1
			MANGANESE	3.2000	mg/L	1
			SODIUM	43.0000	mg/L	1
			NICKEL	0.0530	mg/L	1
			ZINC	0.1800	mg/L	1
P-11U	MW-P11U-07	19-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0730	mg/L	1
			CALCIUM	38.0000	mg/L	1
			IRON	0.5500	mg/L	1
			POTASSIUM	5.7000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.0160	mg/L	1
			SODIUM	59.0000	mg/L	1
			ZINC	0.9200	mg/L	1
P-12UN	MW-P12UN-07	10-MAY-93	ALUMINUM	2.1000	mg/L	1
			BARIUM	0.1400	mg/L	1
			CALCIUM	54.0000	mg/L	1
			IRON	3.3000	mg/L	1
			POTASSIUM	5.5000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.1600	mg/L	1
			SODIUM	51.0000	mg/L	1
			LEAD	0.1000	mg/L	1
			ZINC	7.6000	mg/L	1
P-13U	MW-P13U-07	21-MAY-93	ALUMINUM	0.5500	mg/L	1
			BARIUM	0.0710	mg/L	1
			CALCIUM	41.0000	mg/L	1
			IRON	1.5000	mg/L	1
			POTASSIUM	5.6000	mg/L	1
			MAGNESIUM	13.0000	mg/L	1
			MANGANESE	0.0750	mg/L	1
			SODIUM	69.0000	mg/L	1
			ZINC	0.7700	mg/L	1
P-15U	MW-P15U-07	22-MAY-93	BARIUM	0.0820	mg/L	1
			CALCIUM	39.0000	mg/L	1
			IRON	0.0610	mg/L	1
			POTASSIUM	7.1000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			SODIUM	56.0000	mg/L	1
			ZINC	0.0200	mg/L	1
P-21U	MW-P21U-07	05-MAY-93	ALUMINUM	0.2000	mg/L	1
			BARIUM	0.0650	mg/L	1
			CALCIUM	44.0000	mg/L	1
			IRON	1.0000	mg/L	1
			POTASSIUM	5.7000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MANGANESE	0.0260	mg/L	1
			SODIUM	40.0000	mg/L	1
			ZINC	0.2900	mg/L	1
P-21U DUP	MW2-P21U-07	05-MAY-93	ALUMINUM	0.1900	mg/L	1
			BARIUM	0.0670	mg/L	1
			CALCIUM	46.0000	mg/L	1
			IRON	1.3000	mg/L	1
			POTASSIUM	5.9000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.0300	mg/L	1
			SODIUM	41.0000	mg/L	1
			ZINC	0.3100	mg/L	1
P-22U	MW-P22U-07	10-MAY-93	ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0400	mg/L	1
			CALCIUM	160.0000	mg/L	1
			IRON	8.1000	mg/L	1
			POTASSIUM	5.8000	mg/L	1
			MAGNESIUM	26.0000	mg/L	1
			MANGANESE	0.1700	mg/L	1
			SODIUM	41.0000	mg/L	1
			ZINC	1.3000	mg/L	1
P-23U	MW-P23U-07	12-MAY-93	ALUMINUM	0.2200	mg/L	1
			BARIUM	0.0420	mg/L	1
			CALCIUM	120.0000	mg/L	1
			IRON	19.0000	mg/L	5
			POTASSIUM	34.0000	mg/L	1
			MAGNESIUM	5.6000	mg/L	1
			MANGANESE	0.2500	mg/L	1
			SODIUM	52.0000	mg/L	1
			ZINC	0.0590	mg/L	1
P-24U	MW-P24U-07	11-MAY-93	ARSENIC	0.0640	mg/L	1
			BARIUM	0.1600	mg/L	1
			CALCIUM	170.0000	mg/L	1
			CADMIUM	0.0080	mg/L	1
			IRON	12.0000	mg/L	1
			POTASSIUM	4.5000	mg/L	1
			MAGNESIUM	13.0000	mg/L	1
			MANGANESE	0.8000	mg/L	1
			SODIUM	45.0000	mg/L	1
			ZINC	0.2800	mg/L	1
P-25U	MW-P25U-07	07-MAY-93	ALUMINUM	0.5500	mg/L	1
			BARIUM	0.0780	mg/L	1
			CALCIUM	61.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	5.9000	mg/L	1
			MAGNESIUM	20.0000	mg/L	1
			MANGANESE	0.0340	mg/L	1
			SODIUM	40.0000	mg/L	1
			ZINC	0.3200	mg/L	1
P-27U	MW-P27U-07	26-MAY-93	ALUMINUM	0.3500	mg/L	1
			BARIUM	0.0520	mg/L	1
			CALCIUM	180.0000	mg/L	1
			IRON	6.9000	mg/L	1
			POTASSIUM	8.7000	mg/L	1
			MAGNESIUM	28.0000	mg/L	1
			MANGANESE	0.4100	mg/L	1
			SODIUM	53.0000	mg/L	1
			ZINC	0.0320	mg/L	1
P-28U	MW-P28U-07	13-MAY-93	ALUMINUM	0.1000	mg/L	1
			BARIUM	0.0310	mg/L	1
			CALCIUM	460.0000	mg/L	10
			IRON	3.0000	mg/L	1
			POTASSIUM	7.1000	mg/L	1
			MAGNESIUM	71.0000	mg/L	1
			MANGANESE	0.3900	mg/L	1
			SODIUM	40.0000	mg/L	1
			ZINC	0.0600	mg/L	1
MIDDLE PALUXY						
P-5M	MW-P5M-07	17-MAY-93	ALUMINUM	0.2300	mg/L	1
			BARIUM	0.1100	mg/L	1
			CALCIUM	64.0000	mg/L	1
			IRON	0.7500	mg/L	1
			POTASSIUM	4.3000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.0360	mg/L	1
			SODIUM	23.0000	mg/L	1
			LEAD	0.0590	mg/L	1
			ZINC	3.3000	mg/L	1
P-5M DUP	MW2-P5M-07	17-MAY-93	ALUMINUM	0.3600	mg/L	1
			BARIUM	0.1200	mg/L	1
			CALCIUM	62.0000	mg/L	1
			IRON	0.6600	mg/L	1
			POTASSIUM	4.3000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.0430	mg/L	1
			SODIUM	23.0000	mg/L	1
			LEAD	0.0570	mg/L	1
			ZINC	3.1000	mg/L	1
P-6M	MW-P6M-07	08-MAY-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0910	mg/L	1
			CALCIUM	45.0000	mg/L	1
			IRON	0.3200	mg/L	1
			POTASSIUM	5.3000	mg/L	1
			MAGNESIUM	24.0000	mg/L	1
			SODIUM	25.0000	mg/L	1
			LEAD	0.0680	mg/L	1
			ZINC	3.8000	mg/L	1
P-7M	MW-P7M-07	06-MAY-93	ALUMINUM	0.1400	mg/L	1
			BARIUM	0.0700	mg/L	1
			CALCIUM	55.0000	mg/L	1
			IRON	0.2200	mg/L	1
			POTASSIUM	6.1000	mg/L	1
			MAGNESIUM	24.0000	mg/L	1
			MANGANESE	0.0180	mg/L	1
			SODIUM	27.0000	mg/L	1
			LEAD	0.0660	mg/L	1
			ZINC	4.5000	mg/L	1
P-8M	MW-P8M-07	22-MAY-93	BARIUM	0.0770	mg/L	1
			CALCIUM	32.0000	mg/L	1
			IRON	0.2700	mg/L	1
			POTASSIUM	7.8000	mg/L	1
			MAGNESIUM	14.0000	mg/L	1
			MANGANESE	0.0150	mg/L	1
			SODIUM	32.0000	mg/L	1
			LEAD	0.0730	mg/L	1
			ZINC	3.8000	mg/L	1
P-9M	MW-P9M-07	20-MAY-93	BARIUM	0.0970	mg/L	1
			CALCIUM	59.0000	mg/L	1
			IRON	0.6000	mg/L	1
			POTASSIUM	12.0000	mg/L	1
			MAGNESIUM	21.0000	mg/L	1
			MANGANESE	0.0310	mg/L	1
			SODIUM	48.0000	mg/L	1
			LEAD	0.1400	mg/L	1
			ZINC	9.6000	mg/L	1
P-10M	MW-P10M-07	11-MAY-93	BARIUM	0.0250	mg/L	1
			CALCIUM	22.0000	mg/L	1
			IRON	0.2400	mg/L	1
			POTASSIUM	5.3000	mg/L	1
			MAGNESIUM	1.2000	mg/L	1
			SODIUM	37.0000	mg/L	1
			VANADIUM	0.0530	mg/L	1
			ZINC	1.2000	mg/L	1
P-11M	MW-P11M-07	19-MAY-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.0330	mg/L	1
			CALCIUM	25.0000	mg/L	1
			IRON	1.8000	mg/L	1
			POTASSIUM	5.0000	mg/L	1
			MAGNESIUM	4.1000	mg/L	1
			MANGANESE	0.1400	mg/L	1
			SODIUM	58.0000	mg/L	1
			LEAD	0.4700	mg/L	1
			ZINC	35.0000	mg/L	10
P-12M	MW-P12M-07	09-MAY-93	ALUMINUM	0.1000	mg/L	1
			BARIUM	0.0490	mg/L	1
			CALCIUM	52.0000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			IRON	0.4600	mg/L	1
			POTASSIUM	4.7000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			MANGANESE	0.0180	mg/L	1
			SODIUM	21.0000	mg/L	1
			ZINC	0.5700	mg/L	1
P-12M DUP	MW2-P12M-07	09-MAY-93	BARIUM	0.0630	mg/L	1
			CALCIUM	56.0000	mg/L	1
			IRON	0.3700	mg/L	1
			POTASSIUM	5.2000	mg/L	1
			MAGNESIUM	17.0000	mg/L	1
			MANGANESE	0.0200	mg/L	1
			SODIUM	28.0000	mg/L	1
			ZINC	0.3800	mg/L	1
P-13M	MW-P13M-07	21-MAY-93	ALUMINUM	0.1700	mg/L	1
			BARIUM	0.0290	mg/L	1
			CALCIUM	13.0000	mg/L	1
			IRON	0.1400	mg/L	1
			POTASSIUM	62.0000	mg/L	1
			MAGNESIUM	5.3000	mg/L	1
			SODIUM	49.0000	mg/L	1
			LEAD	0.1900	mg/L	1
			ZINC	14.0000	mg/L	1
HM-126	MW-HM126-07	11-JUN-93	ALUMINUM	0.1300	mg/L	1
			BARIUM	0.0550	mg/L	1
			CALCIUM	95.0000	mg/L	1
			IRON	0.0540	mg/L	1
			MAGNESIUM	2.8000	mg/L	1
			SODIUM	20.0000	mg/L	1
P-20M	MW-P20M-07	03-MAY-93	ALUMINUM	0.6800	mg/L	1
			BARIUM	0.0730	mg/L	1
			CALCIUM	66.0000	mg/L	1
			IRON	1.1000	mg/L	1
			POTASSIUM	8.5000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.0520	mg/L	1
			SODIUM	36.0000	mg/L	1
			ZINC	0.2400	mg/L	1
P-20M DUP	MW2-P20M-07	03-MAY-93	ALUMINUM	1.2000	mg/L	1
			BARIUM	0.0780	mg/L	1
			CALCIUM	69.0000	mg/L	1
			IRON	1.7000	mg/L	1
			POTASSIUM	11.0000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.0820	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.3100	mg/L	1
P-22M	MW-P22M-07	10-MAY-93	BARIUM	0.0910	mg/L	1
			CALCIUM	26.0000	mg/L	1
			IRON	0.9800	mg/L	1
			POTASSIUM	8.3000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			MANGANESE	0.0240	mg/L	1
			SODIUM	27.0000	mg/L	1
			LEAD	0.0640	mg/L	1
			ZINC	3.1000	mg/L	1
P-22M DUP	MW2-P22M-07	10-MAY-93	BARIUM	0.0920	mg/L	1
			CALCIUM	27.0000	mg/L	1
			IRON	0.7200	mg/L	1
			POTASSIUM	8.5000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			MANGANESE	0.0230	mg/L	1
			SODIUM	28.0000	mg/L	1
			LEAD	0.0660	mg/L	1
			ZINC	3.4000	mg/L	1
P-24M	MW-P24M-07	11-MAY-93	BARIUM	0.2900	mg/L	1
			CALCIUM	64.0000	mg/L	1
			IRON	1.4000	mg/L	1
			POTASSIUM	3.6000	mg/L	1
			MAGNESIUM	16.0000	mg/L	1
			MANGANESE	0.1100	mg/L	1
			SODIUM	21.0000	mg/L	1
			LEAD	0.0750	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			ZINC	4.9000	mg/L	1
P-25M	MW-P25M-07	07-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0290	mg/L	1
			CALCIUM	9.2000	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	27.0000	mg/L	1
			MAGNESIUM	1.9000	mg/L	1
			SODIUM	62.0000	mg/L	1
			LEAD	0.0630	mg/L	1
			ZINC	2.9000	mg/L	1
P-26M	MW-P26M-07	09-MAY-93	ALUMINUM	0.2100	mg/L	1
			CALCIUM	7.7000	mg/L	1
			IRON	0.1700	mg/L	1
			POTASSIUM	4.9000	mg/L	1
			MAGNESIUM	4.0000	mg/L	1
			SODIUM	29.0000	mg/L	1
			LEAD	0.1100	mg/L	1
			ZINC	5.5000	mg/L	1
P-29M	MW-P29M-07	12-MAY-93	BARIUM	0.0940	mg/L	1
			CALCIUM	78.0000	mg/L	1
			IRON	0.3700	mg/L	1
			POTASSIUM	5.3000	mg/L	1
			MAGNESIUM	27.0000	mg/L	1
			MANGANESE	0.0410	mg/L	1
			SODIUM	23.0000	mg/L	1
			ZINC	0.0490	mg/L	1
P-30M	MW-P30M-07	12-MAY-93	ALUMINUM	0.1100	mg/L	1
			BARIUM	0.0910	mg/L	1
			CALCIUM	54.0000	mg/L	1
			IRON	0.2500	mg/L	1
			POTASSIUM	5.0000	mg/L	1
			MAGNESIUM	20.0000	mg/L	1
			MANGANESE	0.0300	mg/L	1
			SODIUM	43.0000	mg/L	1
			ZINC	0.0460	mg/L	1
CITY OF WHITE SETTLEMENT WELLS						
WS-1	PW-WS1-07	11-MAY-93	BARIUM	0.0630	mg/L	1
			CALCIUM	67.0000	mg/L	1
			IRON	0.1900	mg/L	1
			POTASSIUM	4.8000	mg/L	1
			MAGNESIUM	25.0000	mg/L	1
			MANGANESE	0.0160	mg/L	1
			SODIUM	30.0000	mg/L	1
WS-1 DUP	PW2-WS1-07	11-MAY-93	BARIUM	0.0610	mg/L	1
			CALCIUM	65.0000	mg/L	1
			IRON	0.1900	mg/L	1
			POTASSIUM	4.7000	mg/L	1
			MAGNESIUM	25.0000	mg/L	1
			MANGANESE	0.0160	mg/L	1
			SODIUM	29.0000	mg/L	1
WS-2	PW-WS2-07	11-MAY-93	BARIUM	0.0650	mg/L	1
			CALCIUM	72.0000	mg/L	1
			IRON	0.0820	mg/L	1
			POTASSIUM	4.4000	mg/L	1
			MAGNESIUM	22.0000	mg/L	1
			MANGANESE	0.0130	mg/L	1
			SODIUM	25.0000	mg/L	1
WS-3	PW-WS3-07	11-MAY-93	BARIUM	0.0830	mg/L	1
			CALCIUM	53.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	4.8000	mg/L	1
			MAGNESIUM	20.0000	mg/L	1
			MANGANESE	0.0160	mg/L	1
			SODIUM	43.0000	mg/L	1
WS-H3	PW-WSH3-07	11-MAY-93	BARIUM	0.1000	mg/L	1
			CALCIUM	27.0000	mg/L	1
			IRON	0.0860	mg/L	1
			POTASSIUM	5.0000	mg/L	1
			MAGNESIUM	12.0000	mg/L	1
			SODIUM	76.0000	mg/L	1
WS-12	PW-WS12-07	11-MAY-93	BARIUM	0.0880	mg/L	1
			CALCIUM	47.0000	mg/L	1
			IRON	0.0420	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			POTASSIUM	4.7000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			MANGANESE	0.0140	mg/L	1
			SODIUM	54.0000	mg/L	1
WS-5A	PW-WS5A-07	11-MAY-93	BARIUM	0.0550	mg/L	1
			CALCIUM	44.0000	mg/L	1
			IRON	0.1000	mg/L	1
			POTASSIUM	3.8000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			SODIUM	66.0000	mg/L	1
WS-8	PW-WS8-07	11-MAY-93	BARIUM	0.0850	mg/L	1
			CALCIUM	48.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	4.9000	mg/L	1
			MAGNESIUM	18.0000	mg/L	1
			SODIUM	48.0000	mg/L	1
SURFACE WATER LOCATIONS						
SW-03A	SW-SW3A-07	24-MAY-93	BARIUM	0.0390	mg/L	1
			CALCIUM	40.0000	mg/L	1
			IRON	0.2500	mg/L	1
			POTASSIUM	2.7000	mg/L	1
			MAGNESIUM	7.8000	mg/L	1
			MANGANESE	0.0520	mg/L	1
			SODIUM	140.0000	mg/L	1
			ZINC	0.0110	mg/L	1
SW-08	SW-SW8-07	24-MAY-93	BARIUM	0.0900	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.1200	mg/L	1
			POTASSIUM	3.1000	mg/L	1
			MAGNESIUM	15.0000	mg/L	1
			MANGANESE	0.0170	mg/L	1
			SODIUM	50.0000	mg/L	1
C-5	SW-C5-07	24-MAY-93	BARIUM	0.0670	mg/L	1
			CALCIUM	69.0000	mg/L	1
			IRON	0.0580	mg/L	1
			POTASSIUM	4.2000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.0180	mg/L	1
C-5 DUP	SW2-C5-07	24-MAY-93	BARIUM	0.0690	mg/L	1
			CALCIUM	70.0000	mg/L	1
			IRON	0.0620	mg/L	1
			POTASSIUM	4.3000	mg/L	1
			MAGNESIUM	11.0000	mg/L	1
			SODIUM	39.0000	mg/L	1
			ZINC	0.0130	mg/L	1
EGL-1	SW-EGL1-07	24-MAY-93	ALUMINUM	0.1200	mg/L	1
			BARIUM	0.0740	mg/L	1
			CALCIUM	71.0000	mg/L	1
			IRON	0.0650	mg/L	1
			POTASSIUM	3.1000	mg/L	1
			MAGNESIUM	7.1000	mg/L	1
			SODIUM	38.0000	mg/L	1
			ZINC	0.0280	mg/L	1
EGL-2	SW-EGL2-07	24-MAY-93	BARIUM	0.0820	mg/L	1
			CALCIUM	86.0000	mg/L	1
			IRON	0.0610	mg/L	1
			POTASSIUM	2.5000	mg/L	1
			MAGNESIUM	6.3000	mg/L	1
			SODIUM	35.0000	mg/L	1
			ZINC	0.0200	mg/L	1
LF05-S5	SW-LF05S5-07	24-MAY-93	BARIUM	0.0770	mg/L	1
			CALCIUM	79.0000	mg/L	1
			IRON	0.1000	mg/L	1
			POTASSIUM	2.2000	mg/L	1
			MAGNESIUM	5.8000	mg/L	1
			MANGANESE	0.0150	mg/L	1
			SODIUM	32.0000	mg/L	1
			ZINC	0.0120	mg/L	1
LF05-S6	SW-LF05S6-07	24-MAY-93	BARIUM	0.0810	mg/L	1
			CALCIUM	98.0000	mg/L	1
			IRON	0.0830	mg/L	1
			POTASSIUM	2.2000	mg/L	1

APPENDIX B - SW6010 RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Analyte	Result	Units	Dilution
			MAGNESIUM	6.5000	mg/L	1
			MANGANESE	0.0170	mg/L	1
			SODIUM	33.0000	mg/L	1
LF05-S7	SW-LF05S7-07	24-MAY-93	BARIUM	0.1000	mg/L	1
			CALCIUM	150.0000	mg/L	1
			IRON	0.0450	mg/L	1
			POTASSIUM	1.9000	mg/L	1
			MAGNESIUM	7.6000	mg/L	1
			MANGANESE	0.0130	mg/L	1
			SODIUM	31.0000	mg/L	1

APPENDIX C: LEAD DETECTIONS
MAY/JUNE 1993 GROUNDWATER SAMPLING DATA
AIR FORCE PLANT 4

LOCATION	SAMPLE ID	SAMPLE DATE	TEST	ANALYTE	VALUE	UNITS	DILUTION
F-203	MW-F203-07	13-JUN-93	SW7421	LEAD	0.0022	MG/L	1
F-204	MW-F204-07	14-JUN-93	SW7421	LEAD	0.0110	MG/L	1
F-209	MW-F209-07	11-JUN-93	SW7421	LEAD	0.0043	MG/L	1
F-212	MW-F212-07	13-MAY-93	SW6010	LEAD	0.0520	MG/L	1
			SW7421	LEAD	0.0350	MG/L	1
F-217	MW-F217-07	06-JUN-93	SW7421	LEAD	0.0110	MG/L	1
F-221	MW-F221-07	20-MAY-93	SW7421	LEAD	0.0036	MG/L	1
FSA-3-12	MW-FSA312-07	06-JUN-93	SW7421	LEAD	0.0033	MG/L	1
FSA-3-14	MW-FSA314-07	06-JUN-93	SW7421	LEAD	0.0024	MG/L	1
FSA-3-15	MW-FSA315-07	07-JUN-93	SW7421	LEAD	0.0056	MG/L	1
FSA-3-17	MW-FSA317-07	09-JUN-93	SW7421	LEAD	0.0051	MG/L	1
HM-5	MW-HM5-07	06-MAY-93	SW7421	LEAD	0.0049	MG/L	1
HM-5-Dup	MW2-HM5-07	06-MAY-93	SW7421	LEAD	0.0041	MG/L	1
HM-7	MW-HM7-07	06-JUN-93	SW7421	LEAD	0.0100	MG/L	1
HM-8	MW-HM8-07	06-MAY-93	SW7421	LEAD	0.0150	MG/L	1
HM-9	MW-HM9-07	06-MAY-93	SW7421	LEAD	0.0042	MG/L	1
HM-10	MW-HM10-07	06-JUN-93	SW7421	LEAD	0.0028	MG/L	1
HM-11	MW-HM11-07	27-MAY-93	SW7421	LEAD	0.0150	MG/L	1
HM-11-Dup	MW2-HM11-07	27-MAY-93	SW7421	LEAD	0.0190	MG/L	1
HM-14	MW-HM14-07	04-MAY-93	SW6010	LEAD	0.1300	MG/L	1
			SW7421	LEAD	0.0680	MG/L	10
HM-15	MW-HM15-07	03-JUN-93	SW7421	LEAD	0.0087	MG/L	1
HM-16	MW-HM16-07	03-JUN-93	SW7421	LEAD	0.0039	MG/L	1
HM-17	MW-HM17-07	27-MAY-93	SW7421	LEAD	0.0380	MG/L	1
HM-19	MW-HM19-07	09-MAY-93	SW7421	LEAD	0.0036	MG/L	1
HM-20	MW-HM20-07	23-MAY-93	SW7421	LEAD	0.0220	MG/L	1
HM-22	MW-HM22-07	12-MAY-93	SW7421	LEAD	0.0570	MG/L	1
HM-23	MW-HM23-07	04-MAY-93	SW6010	LEAD	0.0640	MG/L	1
			SW7421	LEAD	0.0230	MG/L	1
HM-24	MW-HM24-07	06-MAY-93	SW7421	LEAD	0.0072	MG/L	1
HM-25	MW2-HM25-07	13-JUN-93	SW7421	LEAD	0.0042	MG/L	1
HM-26	MW2-HM26-07	07-JUN-93	SW7421	LEAD	0.0020	MG/L	1
HM-29	MW-HM29-07	23-MAY-93	SW7421	LEAD	0.0240	MG/L	1
HM-30	MW-HM30-07	02-JUN-93	SW7421	LEAD	0.0038	MG/L	1
HM-32	MW-HM32-07	08-MAY-93	SW7421	LEAD	0.0170	MG/L	1
HM-33	MW-HM33-07	06-MAY-93	SW7421	LEAD	0.0059	MG/L	1
HM-34	MW-HM34-07	12-MAY-93	SW7421	LEAD	0.0150	MG/L	1
HM-36	MW-HM36-07	06-MAY-93	SW7421	LEAD	0.0045	MG/L	1
HM-39	MW-HM39-07	11-MAY-93	SW7421	LEAD	0.0160	MG/L	1
HM-40	MW-HM40-07	04-MAY-93	SW7421	LEAD	0.0220	MG/L	1
HM-41	MW-HM41-07	05-MAY-93	SW7421	LEAD	0.0030	MG/L	1
HM-42	MW-HM42-07	04-MAY-93	SW7421	LEAD	0.0037	MG/L	1
HM-43	MW-HM43-07	04-MAY-93	SW7421	LEAD	0.0056	MG/L	1
HM-44	MW-HM44-07	04-MAY-93	SW7421	LEAD	0.0056	MG/L	1
HM-47	MW-HM47-07	27-MAY-93	SW7421	LEAD	0.0059	MG/L	1
HM-48	MW-HM48-07	07-MAY-93	SW7421	LEAD	0.0160	MG/L	1
HM-50	MW-HM50-07	14-MAY-93	SW7421	LEAD	0.0120	MG/L	1
HM-52	MW-HM52-07	07-MAY-93	SW7421	LEAD	0.0110	MG/L	1
HM-53	MW-HM53-07	11-JUN-93	SW7421	LEAD	0.0040	MG/L	1
HM-54	MW-HM54-07	18-MAY-93	SW7421	LEAD	0.0420	MG/L	1
HM-54-Dup	MW2-HM54-07	18-MAY-93	SW6010	LEAD	0.0570	MG/L	1
			SW7421	LEAD	0.0410	MG/L	1
HM-55	MW-HM55-07	13-MAY-93	SW6010	LEAD	0.0820	MG/L	1
			SW7421	LEAD	0.0480	MG/L	10
HM-56	MW-HM56-07	27-MAY-93	SW7421	LEAD	0.0032	MG/L	1
HM-59	MW-HM59-07	17-MAY-93	SW7421	LEAD	0.0026	MG/L	1
HM-59-Dup	MW2-HM59-07	17-MAY-93	SW7421	LEAD	0.0028	MG/L	1

APPENDIX C: LEAD DETECTIONS
MAY/JUNE 1993 GROUNDWATER SAMPLING DATA
AIR FORCE PLANT 4

LOCATION	SAMPLE ID	SAMPLE DATE	TEST	ANALYTE	VALUE	UNITS	DILUTION
HM-61	MW-HM61-07	10-MAY-93	SW7421	LEAD	0.0053	MG/L	1
HM-62	MW-HM62-07	09-MAY-93	SW7421	LEAD	0.0099	MG/L	1
HM-64	MW-HM64-07	08-MAY-93	SW7421	LEAD	0.0021	MG/L	1
HM-65	MW-HM65-07	09-MAY-93	SW6010	LEAD	0.0910	MG/L	1
		09-MAY-93	SW7421	LEAD	0.1000	MG/L	5
HM-65-Dup	MW2-HM65-07	09-MAY-93	SW7421	LEAD	0.1000	MG/L	5
HM-66	MW-HM66-07	09-MAY-93	SW7421	LEAD	0.0350	MG/L	1
HM-68	MW-HM68-07	25-MAY-93	SW7421	LEAD	0.0200	MG/L	1
HM-70	MW-HM70-07	26-MAY-93	SW7421	LEAD	0.0041	MG/L	1
HM-72	MW-HM72-07	22-MAY-93	SW7421	LEAD	0.0098	MG/L	1
HM-72-Dup	MW2-HM72-07	22-MAY-93	SW7421	LEAD	0.0081	MG/L	1
HM-73	MW-HM73-07	14-MAY-93	SW7421	LEAD	0.0540	MG/L	1
HM-74	MW-HM74-07	13-MAY-93	SW7421	LEAD	0.0250	MG/L	1
HM-74-Dup	MW2-HM74-07	13-MAY-93	SW7421	LEAD	0.0230	MG/L	1
HM-75	MW-HM75-07	11-MAY-93	SW6010	LEAD	0.0600	MG/L	1
			SW7421	LEAD	0.0690	MG/L	5
HM-76	MW-HM76-07	10-MAY-93	SW7421	LEAD	0.0470	MG/L	1
HM-76-Dup	MW2-HM76-07	10-MAY-93	SW7421	LEAD	0.0410	MG/L	1
HM-77	MW-HM77-07	08-MAY-93	SW7421	LEAD	0.0200	MG/L	1
HM-79	MW-HM79-07	17-MAY-93	SW7421	LEAD	0.0051	MG/L	1
HM-80	MW-HM80-07	12-MAY-93	SW7421	LEAD	0.0380	MG/L	1
HM-81	MW-HM81-07	11-MAY-93	SW6010	LEAD	0.0520	MG/L	1
			SW7421	LEAD	0.0660	MG/L	5
HM-82	MW-HM82-07	25-MAY-93	SW6010	LEAD	0.0900	MG/L	1
			SW7421	LEAD	0.0700	MG/L	5
HM-91	MW-HM91-07	04-JUN-93	SW7421	LEAD	0.0031	MG/L	1
HM-94	MW-HM94-07	26-MAY-93	SW7421	LEAD	0.0028	MG/L	1
HM-97	MW-HM97-07	26-MAY-93	SW7421	LEAD	0.0082	MG/L	1
HM-98	MW-HM98-07	26-MAY-93	SW7421	LEAD	0.0110	MG/L	1
HM-102	MW-HM102-07	05-MAY-93	SW7421	LEAD	0.0074	MG/L	1
HM-103	MW-HM103-07	26-MAY-93	SW6010	LEAD	0.0500	MG/L	1
			SW7421	LEAD	0.0560	MG/L	1
HM-104	MW-HM104-07	06-MAY-93	SW7421	LEAD	0.0025	MG/L	1
HM-107	MW-HM107-07	07-MAY-93	SW7421	LEAD	0.0074	MG/L	1
HM-108	MW-HM108-07	07-MAY-93	SW7421	LEAD	0.0120	MG/L	1
HM-111	MW-HM111-07	02-JUN-93	SW7421	LEAD	0.0056	MG/L	1
HM-112	MW-HM112-07	03-JUN-93	SW7421	LEAD	0.0038	MG/L	1
HM-113	MW-HM113-07	10-JUN-93	SW7421	LEAD	0.0043	MG/L	1
HM-116	MW-HM116-07	25-MAY-93	SW7421	LEAD	0.0020	MG/L	1
HM-117	MW-HM117-07	25-MAY-93	SW7421	LEAD	0.0028	MG/L	1
HM-118	MW-HM118-07	25-MAY-93	SW7421	LEAD	0.0034	MG/L	1
HM-122	MW-HM122-07	21-MAY-93	SW7421	LEAD	0.0051	MG/L	1
HM-125	MW-HM125-07	20-MAY-93	SW7421	LEAD	0.0032	MG/L	1
W-133L	MW-W133L-07	04-JUN-93	SW7421	LEAD	0.0038	MG/L	1
W-134	MW-W134-07	14-MAY-93	SW7421	LEAD	0.0022	MG/L	1
W-139L	MW-W139L-07	11-JUN-93	SW7421	LEAD	0.0021	MG/L	1
W-139U	MW-W139U-07	13-JUN-93	SW7421	LEAD	0.0021	MG/L	1
W-140L	MW-W140L-07	10-JUN-93	SW7421	LEAD	0.0130	MG/L	1
W-141L	MW-W141L-07	13-JUN-93	SW7421	LEAD	0.0260	MB/L	1
W-141U	MW-W141U-07	14-JUN-93	SW7421	LEAD	0.0080	MG/L	1
W-143	MW-W143-07	13-MAY-93	SW7421	LEAD	0.0070	MG/L	1
W-146	MW-W146-07	09-MAY-93	SW7421	LEAD	0.0030	MG/L	1
W-150L	MW-W150L-07	02-JUN-93	SW7421	LEAD	0.0024	MG/L	1
W-157	MW-W157-07	12-MAY-93	SW7421	LEAD	0.0035	MG/L	1
W-163	MW-W163-07	04-JUN-93	SW7421	LEAD	0.0036	MG/L	1
LF04-01	MW-LF0401-07	19-MAY-93	SW7421	LEAD	0.0033	MG/L	1
LF04-02	MW-LF0402-07	22-MAY-93	SW7421	LEAD	0.0076	MG/L	1

APPENDIX C: LEAD DETECTIONS
MAY/JUNE 1993 GROUNDWATER SAMPLING DATA
AIR FORCE PLANT 4

LOCATION	SAMPLE ID	SAMPLE DATE	TEST	ANALYTE	VALUE	UNITS	DILUTION
LF04-04	MW-LF0404-07	22-MAY-93	SW7421	LEAD	0.0024	MG/L	1
LF04-4B	MW-LF044B-07	18-MAY-93	SW7421	LEAD	0.0029	MG/L	1
LF04-4C	MW-LF044C-07	18-MAY-93	SW7421	LEAD	0.0062	MG/L	1
LF04-4G	MW-LF044G-07	23-MAY-93	SW7421	LEAD	0.0032	MG/L	1
LF04-10	MW-LF0410-07	18-MAY-93	SW7421	LEAD	0.0033	MG/L	1
LF05-01	MW-LF0501-07	19-MAY-93	SW7421	LEAD	0.0180	MG/L	1
LF05-5B	MW-LF055B-07	18-MAY-93	SW7421	LEAD	0.0022	MG/L	1
LF05-5E	MW-LF055E-07	21-MAY-93	SW7421	LEAD	0.0037	MG/L	1
LF05-14	MW-LF0514-07	23-MAY-93	SW7421	LEAD	0.0081	MG/L	1
LF05-18	MW-LF0518-07	22-MAY-93	SW7421	LEAD	0.0026	MG/L	1
FT08-11A	MW-FT0811A-07	19-MAY-93	SW7421	LEAD	0.0050	MG/L	1
P-5M	MW-P5M-07	17-MAY-93	SW6010	LEAD	0.0590	MG/L	1
			SW7421	LEAD	0.0053	MG/L	1
P-5M-Dup	MW2-P5M-07	17-MAY-93	SW6010	LEAD	0.0570	MG/L	1
			SW7421	LEAD	0.0093	MG/L	1
P-5UN	MW-P5UN-07	18-MAY-93	SW7421	LEAD	0.0072	MG/L	1
P-6M	MW-P6M-07	08-MAY-93	SW6010	LEAD	0.0680	MG/L	1
			SW7421	LEAD	0.0130	MG/L	1
P-6U	MW-P6U-07	12-MAY-93	SW6010	LEAD	0.5700	MG/L	1
			SW7421	LEAD	0.1300	MG/L	5
P-7M	MW-P7M-07	06-MAY-93	SW6010	LEAD	0.0660	MG/L	1
			SW7421	LEAD	0.0180	MG/L	1
P-7U	MW-P7U-07	10-JUN-93	SW7421	LEAD	0.0065	MG/L	1
P-8M	MW-P8M-07	22-MAY-93	SW6010	LEAD	0.0730	MG/L	1
			SW7421	LEAD	0.0200	MG/L	1
P-8US	MW-P8US-07	10-JUN-93	SW7421	LEAD	0.0032	MG/L	1
P-9M	MW-P9M-07	20-MAY-93	SW6010	LEAD	0.1400	MG/L	1
			SW7421	LEAD	0.0330	MG/L	1
P-9UN	MW-P9UN-07	20-MAY-93	SW6010	LEAD	0.0700	MG/L	1
			SW7421	LEAD	0.0280	MG/L	1
P-10M	MW-P10M-07	11-MAY-93	SW7421	LEAD	0.0120	MG/L	1
P-10U	MW-P10U-07	11-MAY-93	SW7421	LEAD	0.0087	MG/L	1
P-11M	MW-P11M-07	19-MAY-93	SW6010	LEAD	0.4700	MG/L	1
			SW7421	LEAD	0.0630	MG/L	1
P-11U	MW-P11U-07	19-MAY-93	SW7421	LEAD	0.0097	MG/L	1
P-12M	MW-P12M-07	09-MAY-93	SW7421	LEAD	0.0034	MG/L	1
P-12M-Dup	MW2-P12M-07	09-MAY-93	SW7421	LEAD	0.0047	MG/L	1
P-12UN	MW-P12UN-07	10-MAY-93	SW6010	LEAD	0.1000	MG/L	1
			SW7421	LEAD	0.0170	MG/L	1
P-13M	MW-P13M-07	21-MAY-93	SW6010	LEAD	0.1900	MG/L	1
			SW7421	LEAD	0.0140	MG/L	1
P-13U	MW-P13U-07	21-MAY-93	SW7421	LEAD	0.0033	MG/L	1
P-18US	MW-P18US-07	26-MAY-93	SW7421	LEAD	0.0050	MG/L	1
P-19US	MW-P19US-07	05-JUN-93	SW7421	LEAD	0.0140	MG/L	1
P-20M	MW-P20M-07	03-MAY-93	SW7421	LEAD	0.0120	MG/L	1
P-20M-Dup	MW2-P20M-07	03-MAY-93	SW7421	LEAD	0.0190	MG/L	1
P-21U	MW-P21U-07	05-MAY-93	SW7421	LEAD	0.0077	MG/L	1
P-21U-Dup	MW2-P21U-07	05-MAY-93	SW7421	LEAD	0.0120	MG/L	1
P-22M	MW-P22M-07	10-MAY-93	SW6010	LEAD	0.0640	MG/L	1
			SW7421	LEAD	0.0250	MG/L	1
P-22M-Dup	MW2-P22M-07	10-MAY-93	SW6010	LEAD	0.0660	MG/L	1
			SW7421	LEAD	0.0280	MG/L	1
P-22U	MW-P22U-07	10-MAY-93	SW7421	LEAD	0.0055	MG/L	1
P-23U	MW-P23U-07	12-MAY-93	SW7421	LEAD	0.0020	MG/L	1
P-24M	MW-P24M-07	11-MAY-93	SW6010	LEAD	0.0750	MG/L	1
			SW7421	LEAD	0.0100	MG/L	1
P-24U	MW-P24U-07	11-MAY-93	SW7421	LEAD	0.0027	MG/L	1

APPENDIX C: LEAD DETECTIONS
MAY/JUNE 1993 GROUNDWATER SAMPLING DATA
AIR FORCE PLANT 4

LOCATION	SAMPLE ID	SAMPLE DATE	TEST	ANALYTE	VALUE	UNITS	DILUTION
P-25M	MW-P25M-07	07-MAY-93	SW6010	LEAD	0.0630	MG/L	1
			SW7421	LEAD	0.0150	MG/L	1
P-25U	MW-P25U-07	07-MAY-93	SW7421	LEAD	0.0073	MG/L	1
P-26M	MW-P26M-07	09-MAY-93	SW6010	LEAD	0.1100	MG/L	1
			SW7421	LEAD	0.0250	MG/L	1
P-27U	MW-P27U-07	26-MAY-93	SW7421	LEAD	0.0021	MG/L	1

APPENDIX D
CHROMIUM RESULTS (DETECTED)

APPENDIX D – CHROMIUM RESULTS (DETECTED)
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

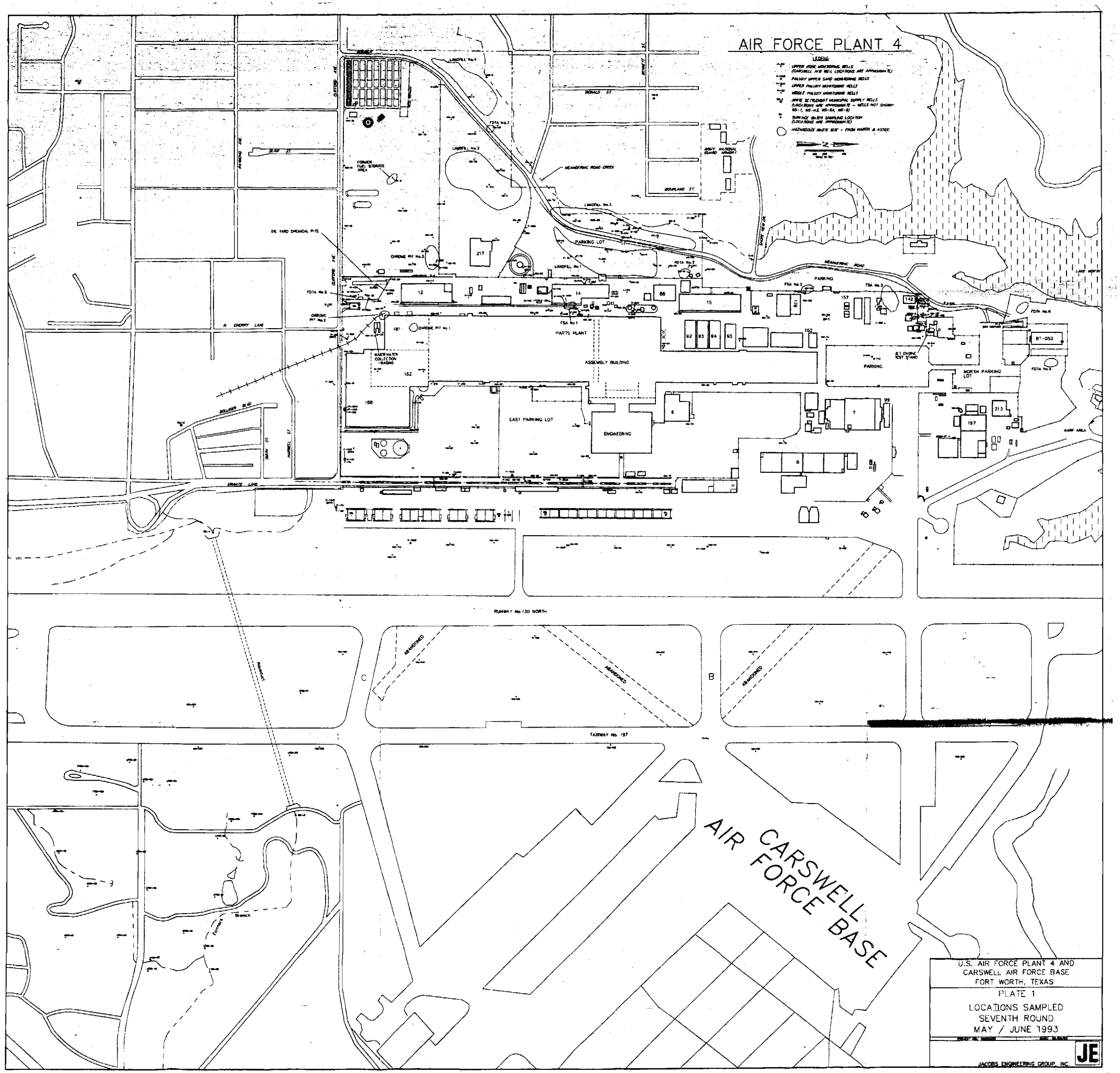
Location	Sample ID	Sample Date	Test	Analyte	Results	Units	Dilution
UPPER ZONE WELLS							
F-211	MW-F211-07	11-JUN-93	SW6010	TOTAL CHROMI	0.110	MG/L	1
F-215	MW-F215-07	09-JUN-93	SW6010	TOTAL CHROMI	0.087	MG/L	1
F-218	MW-F218-07	13-JUN-93	SW6010	TOTAL CHROMI	0.220	MG/L	1
HM-18	MW-HM18-07	09-MAY-93	SW6010	TOTAL CHROMI	0.160	MG/L	1
HM-20	MW-HM20-07	23-MAY-93	SW6010	TOTAL CHROMI	0.110	MG/L	1
HM-28	MW-HM28-07	14-JUN-93	SW6010	TOTAL CHROMI	0.100	MG/L	1
HM-29	MW-HM29-07	23-MAY-93	SW6010	TOTAL CHROMI	0.140	MG/L	1
HM-54	MW-HM54-07	18-MAY-93	SW6010	TOTAL CHROMI	0.042	MG/L	1
HM-54-Dup	MW2-HM54-07	18-MAY-93	SW6010	TOTAL CHROMI	0.034	MG/L	1
HM-71	MW-HM71-07	27-MAY-93	SW6010	TOTAL CHROMI	0.041	MG/L	1
HM-88	MW-HM88-07	24-MAY-93	SW6010	TOTAL CHROMI	0.140	MG/L	1
HM-94	MW-HM94-07	26-MAY-93	SW6010	TOTAL CHROMI	0.260	MG/L	1
HM-96	MW-HM96-07	27-MAY-93	SW6010	TOTAL CHROMI	0.099	MG/L	1
HM-99	MW-HM99-07	27-MAY-93	SW6010	TOTAL CHROMI	0.076	MG/L	1
HM-117	MW-HM117-07	25-MAY-93	SW6010	TOTAL CHROMI	0.056	MG/L	1
W-149	MW-W149-07	26-MAY-93	SW6010	TOTAL CHROMI	0.600	MG/L	1
W-153	MW-W153-07	25-MAY-93	SW6010	TOTAL CHROMI	0.038	MG/L	1
W-154	MW-W154-07	03-JUN-93	SW6010	TOTAL CHROMI	1.100	MG/L	1
PALUXY UPPER SAND WELL							
P-19US	MW-P19US-07	05-JUN-93	SW6010	TOTAL CHROMI	0.060	MG/L	1

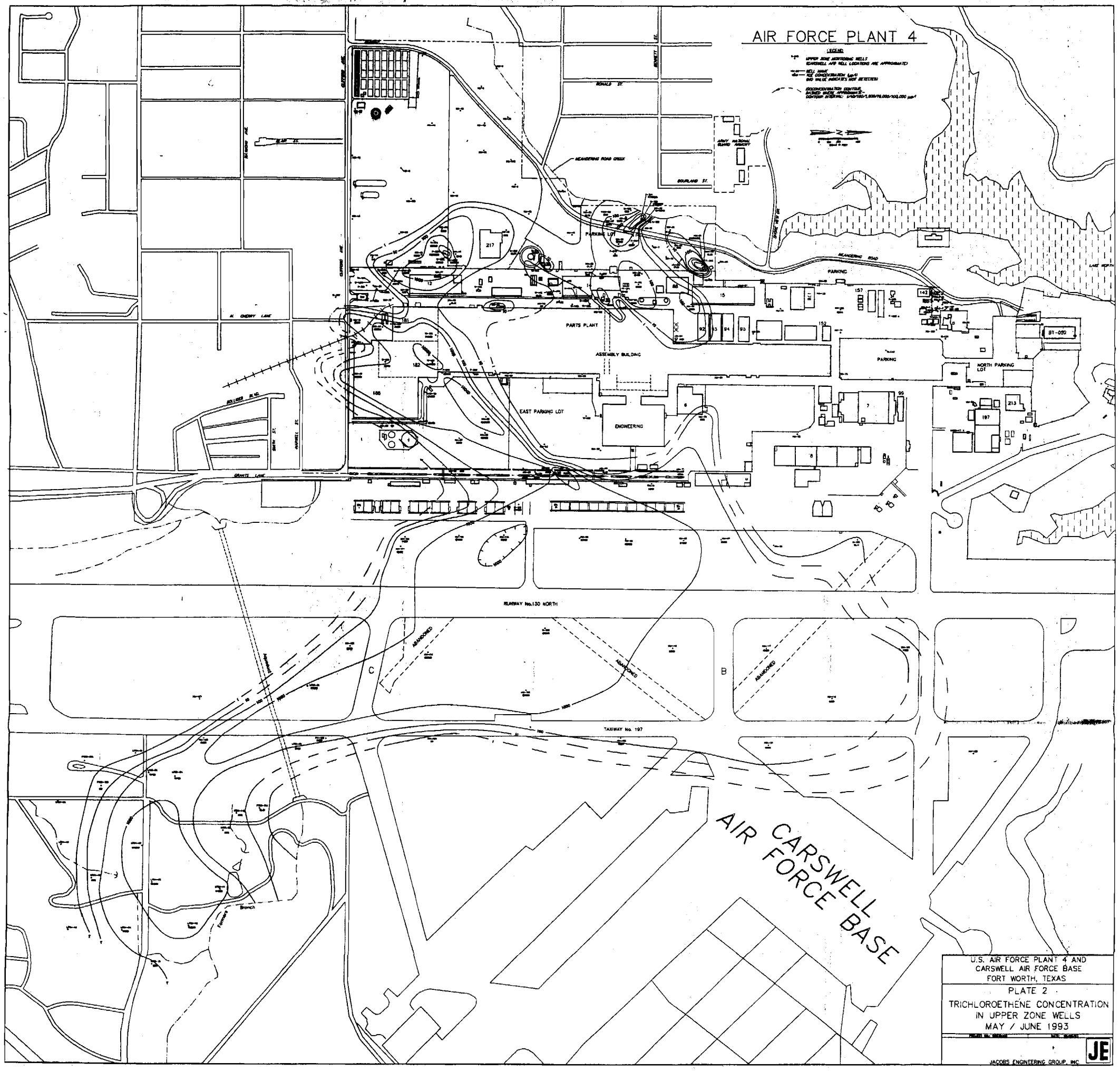
APPENDIX E
TENTATIVELY IDENTIFIED COMPOUNDS

APPENDIX E - TENTATIVELY IDENTIFIED COMPOUNDS - SW8240
MAY/JUNE 1993 GROUNDWATER SAMPLING
AIR FORCE PLANT 4

Location	Sample ID	Sample Date	Result
UPPER ZONE WELLS			
F-200 DUP	MW2-F200-07	14-MAY-93	80 µg/l
F-203	MW-F203-07	13-JUN-93	710 µg/l
F-203 DUP	MW2-F203-07	13-JUN-93	950 ug/l
F-204	MW-F204-07	14-JUN-93	870 µg/l
F-209	MW-F209-07	11-JUN-93	1210 µg/l
FSA3-1	MW-FSA31-07	06-JUN-93	490 µg/l
FSA3-2	MW-FSA32-07	13-JUN-93	1060 µg/l
FSA3-4	MW-FSA34-07	07-JUN-93	390 µg/l
FSA3-6	MW-FSA36-07	08-JUN-93	530 µg/l
FSA3-7	MW-FSA37-07	08-JUN-93	470 µg/l
FSA3-10	MW-FSA310-07	09-JUN-93	420 µg/l
FSA3-12	MW-FSA312-07	06-JUN-93	180 µg/l
FSA3-15	MW-FSA315-07	07-JUN-93	170 µg/l
FSA3-14	MW-FSA314-07	06-JUN-93	1040 µg/l
FSA3-16	MW-FSA316-07	09-JUN-93	110 µg/l
FSA3-17	MW-FSA317-07	08-JUN-93	120 µg/l
HM-25 DUP	MW2-HM25-07	13-JUN-93	500 µg/l
HM-53	MW-HM53-07	11-JUN-93	950 µg/l
HM-56	MW-HM56-07	27-MAY-93	900µg/l
HM-105	MW-HM105-07	13-MAY-93	30 µg/l
HM-120	MW-HM120-07	21-MAY-93	250 µg/l
W-133U	MW-W133U-07	04-JUN-93	720 µg/l
W-135	MW-W135-07	13-MAY-93	200 µg/l
W-136	MW-W136-07	09-MAY-93	950 µg/l
W-139L	MW-W139L-07	11-JUN-93	1300 µg/l
W-139U	MW-W139U-07	13-JUN-93	2000 µg/l
W-140U	MW-W140L-07	13-JUN-93	5200 µg/l
W-141U	MW-W141U-07	13-JUN-93	300 µg/l
W-163	MW-W163-07	04-JUN-93	6700 µg/l
CARSWELL AFB WELL			
FT08-11B	MW-FT0811B-07	05-MAY-93	130 µg/l

NOTE: These compounds were tentatively identified by BC Analytical as methylated benzenes and normal- and cyclo-alkanes in the C4 to C12 range. Only the totals are shown here.


AIR FORCE PLANT 4
LEGEND
UPPER JOPE MONITORING WELLS (CARSWELL AFB WELL LOCATIONS ARE APPROXIMATE)
PALUXY UPPER SAND MONITORING WELLS
UPPER PALUXY MONITORING WELLS
MIDDLE PALUXY MONITORING WELLS
AFPE SETLEIGHT MUNICIPAL SUPPLY WELLS (LOCATIONS ARE APPROXIMATE - WELLS NOT SHOWN WS-1, WS-4,5, WS-8A, WS-9)
SURFACE WATER SAMPLING LOCATION (LOCATIONS ARE APPROXIMATE)
HAZARDOUS WASTE SITE - FROM NARCO & ASSOC.
LANDFILL No.4
FDTA No.3
LANDFILL No.2
FORMER FUEL STORAGE AREA
MEANDERING ROAD CREEK
ARMY NATIONAL GUARD ARMORY
LANDFILL No.3
PARKING LOT
DE YARD CHEMICAL PITS
CHROME PIT No.3
FDTA No.5
CHROME PIT No.2
CHROME PIT No.1
FDTA No.2
FSA No.2
FSA No.3
PARKING
FDTA No.6
FSA No.1
PARTS PLANT
ASSEMBLY BUILDING
WASTEWATER COLLECTION BASINS
EAST PARKING LOT
ENGINEERING
NORTH PARKING LOT
BT-052
FDTA No.4
RAMP AREA
N. CHERRY LANE
BOULDER BLVD
GRANITE LANE
RUNWAY No.13D NORTH
ABANDONED
TAXIWAY No. 197
CARSWELL AIR FORCE BASE
U.S. AIR FORCE PLANT 4 AND
CARSWELL AIR FORCE BASE
FORT WORTH, TEXAS
PLATE 1
LOCATIONS SAMPLED
SEVENTH ROUND
MAY / JUNE 1993
JACOBS ENGINEERING GROUP, INC.



U.S. AIR FORCE PLANT 4 AND
CARSWELL AIR FORCE BASE
FORT WORTH, TEXAS

PLATE 2

TRICHLOROETHENE CONCENTRATION
IN UPPER ZONE WELLS
MAY / JUNE 1993

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