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NAS FORT WORTH  
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LIMITED ENVIRONMENTAL INVESTIGATION AND ASSESSMENT OF PETROLEUM  
HYDROCARBON IMPACTS INSTALLATION OF MONITORING WELL 3 NAS FORT WORTH  
TX  
10/27/1992  
MAXIM ENGINEERS



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

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**ADMINISTRATIVE RECORD  
COVER SHEET**

AR File Number 118

CO - 01/1/85

LIMITED ENVIRONMENTAL INVESTIGATION  
and  
Assessment of Petroleum  
Hydrocarbon Impacts

INSTALLATION OF MONITOR WELL 3  
Carswell Air Force Base  
Fort Worth, Texas

BSS

Project Number:  
  
2492L01270

Prepared for:

UNITED STATES AIR FORCE  
Carswell Air Force Base  
Fort Worth, Texas

Prepared by:

MAXIM ENGINEERS, INC.  
Environmental and Engineering Consultants  
2301 East Loop 820 North  
Fort Worth, Texas 76118  
(817) 595-2288

October 27, 1992

17A-22-118



**MAXIM ENGINEERS, INC.**  
Engineering and Environmental Consultants

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October 27, 1992

Lt. Erin Manning  
Building 1215  
Carswell Air Force Base, TX 76127

RE: Monitor Well Installation  
Grassy Area Adjacent to A Street on Shopette Lot  
Carswell AFB, Texas

Dear Lt. Manning:

We have completed our supervision of soil removal and assessment of petroleum hydrocarbon impacts of the above referenced property. The findings of our work, together with conclusions and recommendations, are presented in the attached report.

We will be happy to answer any questions concerning the report. It has been a pleasure to work with you on this project, and look forward to being of continued service.

Sincerely,

**MAXIM ENGINEERS, INC.**

Keva Ward  
Environmental Scientist  
Environmental Services

Gary D. Lambert  
Senior Project Manager  
Engineering and Environmental Services

KW/mfg

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LIMITED ENVIRONMENTAL INVESTIGATION  
and  
Assessment of Petroleum  
Hydrocarbon Impacts

1.0 Introduction

The following is a report summarizing the activities performed by Maxim Engineers, Inc. (Maxim) for the United States Air Force as part of a limited subsurface investigation and Monitor Well installation at the Shopette facility on A Street at Carswell Air Force Base.

Maxim performed this investigation and subsequent monitor well installation to assist in determining whether hydrocarbon contamination discovered in a field approximately 2/10 of a mile down gradient of this boring location may be emanating from a source upgradient of this location. This monitor well, hereafter referred to as MW-3, is situated approximately 90 to 100 feet down gradient from several large, above ground fuel storage tanks.

The scope of work called for a single boring to be advanced to a depth of 50 feet or bedrock. Samples of the soil and groundwater were to be collected and analyzed for total petroleum hydrocarbon (TPH) content and benzene, ethylbenzene, toluene and xylene (BTEX) content.

Upon termination of the boring at 50 feet or bedrock, the boring was to be converted to a monitor well and subsequently developed to facilitate groundwater sampling procedures.

Soil and groundwater samples were collected and submitted for analysis for TPH and BTEX using EPA approved testing methods 418.1 and 8020, respectively. A total dissolved solids analysis was also performed. Results of the field investigation and laboratory analyses are discussed herein.

## 2.0 Background

This particular boring location was selected by Carswell personnel due to its up gradient proximity to the gasoline station and site of known contamination, and also because it is situated down gradient from the above ground storage tank (AST) facility which had at one time, according to site personnel, apparently been the location of another gasoline station. It was postulated that placing the boring in this location may assist in determining whether contamination may have migrated down gradient from the AST facility or possibly from activities at the previous gas station.

### 3.0 Field Investigation

On September 30 at 10:00 a.m., Maxim commenced drilling operations using a truck-mounted rotary drilling rig and hollow stem augers. Soil samples were collected at two-foot intervals using shelly tubes and a two-foot split-spoon, and the sampling tools were decontaminated between sampling events. The soil samples were logged on-site by a field geologist and were placed into clean, 8 ounce glass jars with teflon-lined lids and preserved on ice prior to delivery to the laboratory for analysis. Copies of the analytical results and the chain of custody documentation are included in Section II of this report.

Soils in the boring were brown to very dark brown clay in the 0 to 9 foot range. From 9 to 15 feet was light to medium gray clay with some sand and occasional moisture. Between 15 feet and 17 1/2 feet was light gray, stiff clay with grayish tan sand and increased moisture, and from 17 1/2 to 20 1/2 feet was tan, fine, wet sand with reddish yellow coloring and some limestone fragments. Bedrock was encountered at 20 feet. Boring continued to 20 1/2 feet to establish that bedrock, and not a thin layer of limestone, had been reached. The boring was then terminated at 20 1/2 feet and converted to Monitor Well 3 (MW3). No visual or olfactory indications of hydrocarbon contamination were evident during the course of the boring advancement.

On Monday, October 5, MW-3 was developed and allowed to recharge to its original static level which was measured at 11.5 feet prior to purging. A hand-held PVC tube bailer was used to purge the well, and, following decontamination, to

extract the samples. The sample to be analyzed for TPH was contained in a one-liter jar with five (5) milliliters of hydrochloric acid (HCL) as a preservative. BTEX samples were placed in two 1.5 ounce glass vials, also with HCL, and the TDS samples were poured into two (2) 125 ml polypropelene bottles with no preservative. All samples were kept on ice during transport to the laboratory for analysis. Water sample analytical results are summarized in Table 2 on page 5.

#### 4.0 Laboratory Analysis

Selected soils samples were submitted to Maxim's laboratory for analysis. Containment parameters included Total Petroleum Hydrocarbons (TPH); Benzene, Toluene, Ethylbenzene and Xylene (BTEX) and Total Dissolved Solids (TDS).

**TABLE I**  
**Summary of Analytical Testing Results of Soil**  
**Samples taken by Maxim Engineers September 30, 1992**  
**Results are reported in parts per million (ppm)**

Sample Location	Benzene	Toluene	Ethyl-Benzene	Xylene	Total BTEX	TPH
MW-3 3-5 feet	<.62	<.62	<.62	<.62	<.62	<10.0
MW-3 3-5 feet	<.62	<.62	0.70	<.62	0.70	51.2
MW-3 17.5-20 feet	<.62	<.62	<.62	<.62	<.62	10.6

**TABLE II**  
**Summary of Analytical Testing Results of Water**  
**Samples taken by Maxim Engineers October 5, 1992**  
**Results are reported in parts per million (ppm)**

Sample Location	Benzene	Toluene	Ethyl-Benzene	Xylene	Total BTEX	TPH
MW-3	<.005	<.005	<.005	<.005	<.005	<1.0

CC - 01111

## 5.0 Conclusions and Recommendations

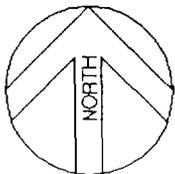
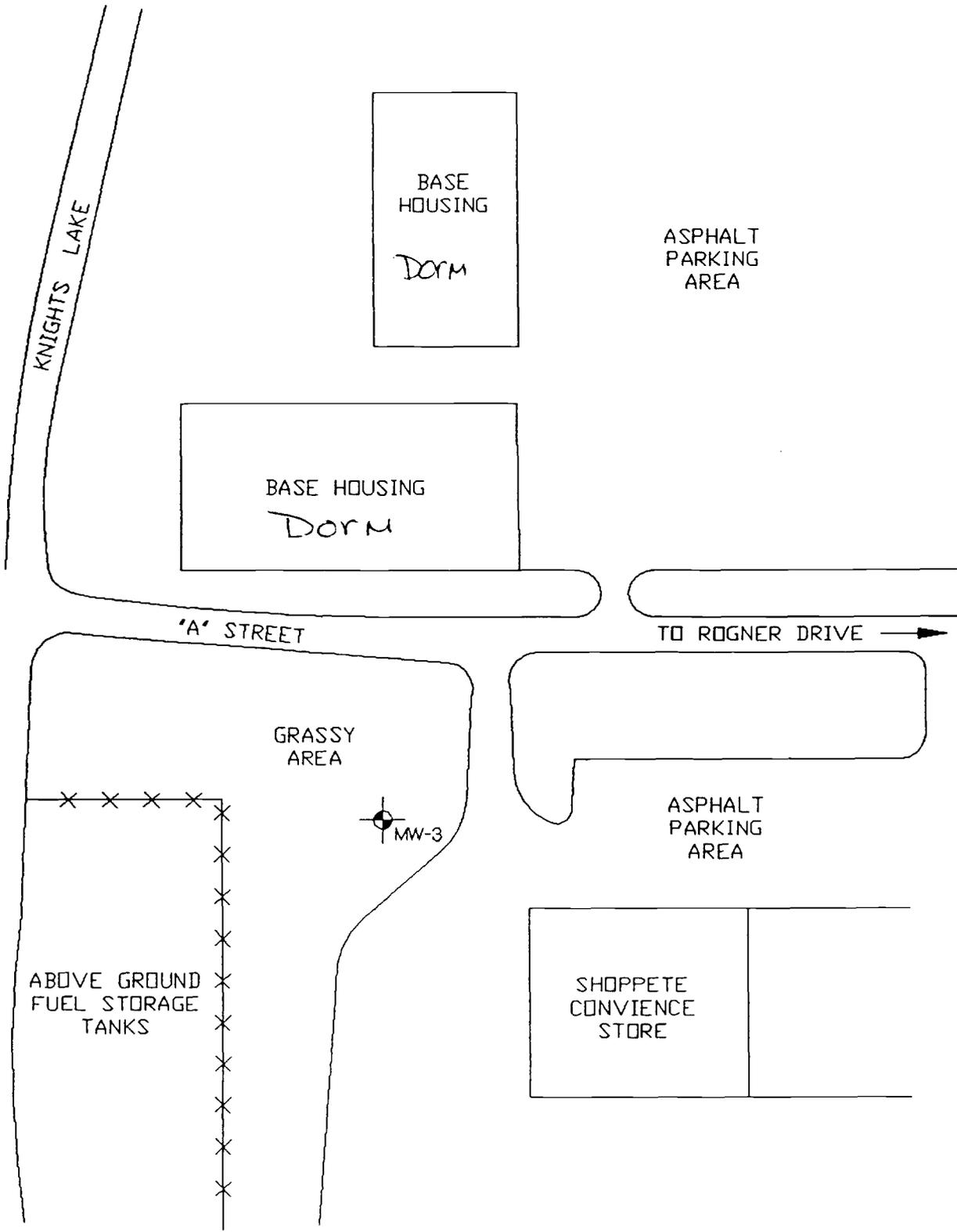
Contaminant levels in the soil samples of MW-3 were all below TWC action levels. Groundwater samples were also below action levels for TPH and BTEX. A total dissolved solids analysis revealed a level of 420 ppm TDS was present in the water at MW-3. According to Texas Water Commission Groundwater Quality of Texas, Report No. 89-01, the classification of water based on the TDS in parts per million (ppm) is as follows:

Fresh Water	<1000 ppm
Slightly Saline Water	1000 to 3000 ppm
Moderately Saline Water	3000 to 10,000 ppm
Very Saline Water	10,000 to 35,000 ppm
Brine	>35,000 ppm

Based on the relatively low levels of TPH, BTEX and TDS found in the soils and water samples collected from MW-3, no further action is recommended at this particular location, with the exception of routine quarterly sampling procedures to monitor possible groundwater contamination migration.

## 6.0 Limitations

It should be noted that all subsurface investigations are inherently limited in the sense that conclusions are drawn and recommendations are developed from test borings which depict subsurface conditions at representative locations over relatively short periods of time. Subsurface conditions elsewhere may differ from those at sampling locations. In addition, subsurface conditions at sampling locations may vary over longer periods of time than can be observed in a study of this type. The conclusions, opinions, and recommendations in this report are based on the limited information obtained and discussed herein. This firm is not responsible for the conclusions, opinions, or recommendations made by others based on this information.



SITE PLAN - INSTALLATION OF  
MONITOR WELL NO.3

FOR: U.S. AIR FORCE

SCALE: NO SCALE	PROJECT NO. 2492L01270	FIGURE 2	DATE: 10-19-92	DRAWN BY: CSM	000 VENV
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**MAXIM ENGINEERS, INC.**  
Engineering and Environmental Consultants  
FT. WORTH, TEXAS

MAXIM ENGINEERS, INC.

# Log of Boring

Number

**B-3**

Location

**SEE SITE PLAN**

Page 1 of 1

**2492001270**

Project

**CARSWELL AIR FORCE BASE,**

**FORT WORTH, TEXAS**

Feet	Samples Symbol	Auger Type	Casing Elevation	Well Construction Details	Photo-ionization Reading	Benzene (ppm)	Toluene (ppm)	Xylene (ppm)	Ethyl Benzene (ppm)	Total BTXE (ppm)	T.P.H. (ppm)
		Hollow Stem									
		<b>STRATUM DESCRIPTION</b>									
		TOP SOIL, GRAVEL, organics									
3.0		Dark brown CLAY				<.62	<.62	<.62	<.62	<.62	<10.0
5.0		Very dark brown CLAY									
7.0		Brown CLAY with some calcareous nodules									
9.0		Light to medium gray moist CLAY with tan SAND and some small GRAVEL				<.62	<.62	<.62	<.70	<.70	51.2
10.0		Grayish tan moist CLAY with some small shell like fragments									
12.5		Light gray moist CLAY with occasional LIMESTONE fragments									
15.0		Light gray stiff CLAY grading to grayish tan and tan SAND, very moist, some IRON stains at 15 feet									
17.5		Tan fine wet SAND grading to reddish yellow coarse SAND and CLAY SAND with LIMESTONE fragments				<.62	<.62	<.62	<.62	<.62	10.6
20.0		No sample recovery, encountered BEDROCK									
20.5		BORING TERMINATED AT 20.5 FEET, CONVERTED TO MW-3									

Completion Depth  
**20.5'**

Date  
**9/30/92**

Water Observations

**WATER ENCOUNTERED AT 15 FEET**

ATTENTION OWNER: Confidentiality  
Privilege Notice on Reverse Side

State of Texas  
WELL REPORT

Texas Water Well Drillers Board  
P.O. Box 13087  
Austin, Texas 78711

1) OWNER OPERATION CONTRACTOR ADDRESS BLD 1330 CARSWELL AFB FT WORTH 76127  
(Name) (Street or RFD) (City) (State) (Zip)  
LOCATION OF WELL:  
County TARRANT . APPROX 5 miles in W TOW W direction from FT WORTH  
(NE, SW, etc.) (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

LEGAL DESCRIPTION: S.E. CORNER NIGHT LAKE + JENNINGS  
Section No. \_\_\_\_\_ Block No. \_\_\_\_\_ Township \_\_\_\_\_ Abstract No. \_\_\_\_\_ Survey Name \_\_\_\_\_  
Distance and direction from two intersecting section or survey lines \_\_\_\_\_  
 SEE ATTACHED MAP MAPSCO PAGE 60 @ TARRANT

3) TYPE OF WORK (Check):  New Well  Deepening  Reconditioning  Plugging  
4) PROPOSED USE (Check):  Domestic  Industrial  Monitor  Public Supply  Irrigation  Test Well  Injection  De-Watering  
5) DRILLING METHOD (Check):  Driven  Mud Rotary  Air Hammer  Jetted  Bored  Air Rotary  Cable Tool  Other AUGER

6) WELL LOG: Date Drilling: Started 9-30-82 Completed 9-30-82  
Diameter of Hole: Dia. (in.) From (ft.) To (ft.)  
12 Surface 20  
7) BOREHOLE COMPLETION:  Open Hole  Straight Wall  Underreamed  Gravel Packed  Other SAND  
If Gravel Packed give interval ... from 7 ft. to 20 ft.

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)	Gage Casting Screen	
						From	To	
<u>0</u>	<u>3</u>	<u>BROWN SAND + CLAY ROCK FILL</u>	<u>4</u>	<u>N</u>	<u>SOLID</u>	<u>0</u>	<u>10</u>	<u>40</u>
<u>3</u>	<u>7</u>	<u>GREY CLAY</u>	<u>4</u>	<u>N</u>	<u>SCREEN</u>	<u>10</u>	<u>21</u>	<u>40</u>
<u>7</u>	<u>15</u>	<u>TAN + GREY CLAY</u>						
<u>15</u>	<u>20 1/2</u>	<u>TAN SAND + GRAVEL</u>						
<u>20 1/2</u>		<u>LIMESTONE</u> (Use reverse side if necessary)						

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:  
9) CEMENTING DATA [Rule 287.44(1)]  
Cemented from 0 ft. to 4 1/2 ft. No. of Sacks Used 5  
BENENOTE 4 1/2 ft. to 7 ft. No. of Sacks Used 10  
Method used BY HAND GAL  
Cemented by DRILLER

3) TYPE PUMP:  Turbine  Jet  Submersible  Cylinder  Other NA  
Depth to pump bowls, cylinder, jet, etc., \_\_\_\_\_ ft.  
10) SURFACE COMPLETION:  Specified Surface Slab Installed [Rule 287.44(2)(A)]  Specified Steel Sleeve Installed [Rule 287.44(3)(A)]  Pitless Adapter Used [Rule 287.44(3)(B)]  Approved Alternative Procedure Used [Rule 287.71] FLUSH MOUNT

14) WELL TESTS: Type Test:  Pump  Bailor  Jetted  Estimated NA  
Yield: \_\_\_\_\_ gpm with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
11) WATER LEVEL: Static level NA ft. below land surface Date NA  
Artesian flow \_\_\_\_\_ gpm. Date \_\_\_\_\_

15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents?  Yes  No if yes, submit "REPORT OF UNDESIRABLE WATER"  
Type of water? \_\_\_\_\_ Depth of strata 15  
Was a chemical analysis made?  Yes  No  
12) PACKERS: Type \_\_\_\_\_ Depth \_\_\_\_\_  
NA

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.  
COMPANY NAME MAXIM ENGINEERS WELL DRILLER'S LICENSE NO. 2945 M  
(Type or print)  
ADDRESS 2342 FABENS DALLAS TX 75229  
(Street or RFD) (City) (State) (Zip)  
Signed James R Logan (Registered Driller Trainee)  
(Licensed Well Driller)

Please attach electric log, chemical analysis, and other pertinent information, if available.  
For TWC use only: Well No. \_\_\_\_\_ Located on map \_\_\_\_\_



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Fax (214) 484-5804

BTEX REPORT

CLIENT UNITED STATES AIR FORCE  
PROJECT NO. 2492001270  
SAMPLE DATE 09/30/92  
DATE RECEIVED 09/30/92  
DATE OF EXTRACTION 10/01/92  
DATE OF ANALYSIS 10/01/92  
SAMPLE ID 92135425  
LAB NO. 92035454  
FIELD ID B-3; 3'-5'  
MATRIX SOIL  
METHOD OF TEST EPA METHOD 8020

PARAMETER	RESULTS (ug/g)	DETECTION LIMIT (ug/g)
BENZENE	<0.62	0.62
TOLUENE	<0.62	0.62
ETHYLBENZENE	<0.62	0.62
p-XYLENE	<0.62	0.62
m-XYLENE	<0.62	0.62
o-XYLENE	<0.62	0.62

TOTAL BTEX <0.62  
TOTAL XYLENE <0.62

ANALYST:

*Charles P. France*



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BTEX REPORT

CLIENT UNITED STATES AIR FORCE  
PROJECT NO. 2492001270  
SAMPLE DATE 09/30/92  
DATE RECEIVED 09/30/92  
DATE OF EXTRACTION 10/01/92  
DATE OF ANALYSIS 10/01/92  
SAMPLE ID 92135426  
LAB NO. 92035455  
FIELD ID B-3; 9'-10'  
MATRIX SOIL  
METHOD OF TEST EPA METHOD 8020

PARAMETER	RESULTS (ug/g)	DETECTION LIMIT (ug/g)
BENZENE	<0.62	0.62
TOLUENE	<0.62	0.62
ETHYLBENZENE	0.70	0.62
p-XYLENE	<0.62	0.62
m-XYLENE	<0.62	0.62
o-XYLENE	<0.62	0.62

TOTAL BTEX 0.70

TOTAL XYLENE <0.62

ANALYST: *Charles P. Liacco*

09/30/92 09:14 AM



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**BTEX REPORT**

CLIENT UNITED STATES AIR FORCE  
PROJECT NO. 2492001270  
SAMPLE DATE 09/30/92  
DATE RECEIVED 09/30/92  
DATE OF EXTRACTION 10/01/92  
DATE OF ANALYSIS 10/01/92  
SAMPLE ID 92135427  
LAB NO. 92035456  
FIELD ID B-3; 17.5'-20'  
MATRIX SOIL  
METHOD OF TEST EPA METHOD 8020

PARAMETER	RESULTS (ug/g)	DETECTION LIMIT (ug/g)
BENZENE	<0.62	0.62
TOLUENE	<0.62	0.62
ETHYLBENZENE	<0.62	0.62
p-XYLENE	<0.62	0.62
m-XYLENE	<0.62	0.62
o-XYLENE	<0.62	0.62

TOTAL BTEX <0.62  
TOTAL XYLENE <0.62

ANALYST: Charles P. Fusco

200001270-01  
 09/30/92  
 92135427  
 92035456  
 B-3; 17.5'-20'  
 SOIL  
 EPA METHOD 8020



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**BTEX REPORT**

CLIENT UNITED STATES AIR FORCE  
PROJECT NO. 2492L01270  
SAMPLE DATE 10/05/92  
DATE RECEIVED 10/05/92  
DATE OF EXTRACTION N/A  
DATE OF ANALYSIS 10/05/92  
SAMPLE ID 92135457  
LAB NO. 92035476  
FIELD ID MW-3  
MATRIX LIQUID  
METHOD OF TEST EPA METHOD 8020

PARAMETER	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
BENZENE	<5.0	5.00
TOLUENE	<5.0	5.00
ETHYLBENZENE	<5.0	5.00
p-XYLENE	<5.0	5.00
m-XYLENE	<5.0	5.00
o-XYLENE	<5.0	5.00

TOTAL BTEX <5.00  
TOTAL XYLENE <5.00

ANALYST: *Charles J. Farnsworth*



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Client: UNITED STATES AIR FORCE

Date of Extraction: 10/02/92

Project #: 2492001270

Date of Analysis: 10/02/92

Sample Date: 09/30/92

Matrix: Soil/Liquid

Date Received: 09/30/92

-----  
TOTAL PETROLEUM HYDROCARBONS (EPA Method 418.1)  
-----

SAMPLE #	LAB #	FIELD ID	RESULTS	DETECTION LIMIT
			(ug/g)	(ug/g)
92135425	92515440	B-3; 3'-5'	<10.0	10.0
92135426	92515441	B-3; 9'-10'	51.2	10.0
92135427	92515442	B-3; 17.5'-20'	10.6	10.0
			MATRIX: LIQUID	
			(mg/L)	(mg/L)
92135434	92515449	MW-A	16.0	1.0
92135436	92515451	MW-17M	1413.1	10.3

ANALYST: Charles E. Faria



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Client: UNITED STATES AIR FORCE

Date of Extraction: 10/05/92

Project #: 2492L01270

Date of Analysis: 10/06/92

Sample Date: 10/05/92

Matrix: Liquid

Date Received: 10/05/92

-----  
TOTAL PETROLEUM HYDROCARBONS (EPA Method 418.1)  
-----

SAMPLE #	LAB #	FIELD ID	RESULTS (mg/L)	DETECTION LIMIT (mg/L)
92135458	92515477	MW-3	<1.0	1.0

ANALYST: *Charles R. Feltner*



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GENERAL REPORT

---

CLIENT UNITED STATES AIR FORCE  
PROJECT NO. 2492L01270  
SAMPLE DATE 10/05/92  
DATE RECEIVED 10/05/92  
DATE OF ANALYSIS 10/07/92  
MATRIX WATER  
METHOD OF TEST EPA METHOD 120.1

---

SAMPLE NUMBER	SAMPLE LOCATION	RESULTS (mg/l)
92135459	MW-3	420

ANALYST: Charles L. Foster

ENVIRONMENTAL



MAXIM ENGINEERS, INC.

CHAIN OF CUSTODY RECORD

4400 - 1114

PROJECT # 2492001270 PROJECT MANAGER KEVA WAPP P.O. NUMBER: \_\_\_\_\_

SAMPLERS: (Signature) [Signature] DATE SAMPLED 9.30.92

TIME	PRESER- VATIVE	COMP.	GRAB	SAMPLE CONTAINER (SIZE/MATL)	SAMPLE TYPE (LIQUID SLUDGE, ETC)	SAMPLE LOCATION	ANALYSIS REQUESTED	DATE RESULTS NEEDED	LAB NUMBER	SECURITY SEAL (Y/N)	HEAD-SPACE (Y/N)	WATER IN SAMPLE (Y/N)	PACKED W/ICE (Y/N)	PRESERVED W/HCL (Y/N)	TEMP °C	DELIVER
9/30/92	10E	✓		500 GALS	SOIL	B-3; 3 to 5 FEET	TPH / BTEX		92135428	N	N				14.1	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 9-10 FEET	TPH / BTEX		92135429	N	N	Y			14.1	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 17 1/2 - 20 FEET	TPH / BTEX		92135430	N	N				14.1	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 1-3 FEET	HOLD		92135431	N	N				14.4	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 5-7 FEET	HOLD		92135432	N	N				14.4	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 7-9 FT	HOLD		92135433	N	N				14.4	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 10-12 1/2	HOLD		92135434	N	N				14.4	1
9/30/92	10E	✓		500 GALS	SOIL	B-3; 15-17 1/2	HOLD		92135435	N	N				14.4	1
9/30/92	10E	✓		1 LITER	LIQUID	MIXD-A	TPH / BTEX		92135436	N	N				14.4	1
9/30/92	10E	✓		2 LITER	LIQUID	MIXD-A	TPH / BTEX		92135437	N	N				14.4	1
9/30/92	10E	✓		2 LITER	LIQUID	MIXD-1	TPH / BTEX		92135438	N	N				14.4	1
9/30/92	10E	✓		1 LITER	LIQUID	MIXD-2	TPH / BTEX		92135439	N	N				14.4	1
RELINQUISHED BY: (Signature) _____ DATE / TIME _____ RECEIVED BY: (Signature) _____																
RELINQUISHED BY: (Signature) _____ DATE / TIME _____ RECEIVED BY: (Signature) _____																
RELINQUISHED BY: (Signature) _____ DATE / TIME _____ RECEIVED BY: (Signature) _____																
RELINQUISHED BY: (Signature) _____ DATE / TIME _____ RECEIVED BY: (Signature) _____																
REMARKS: _____																

\* DELIVERY CODES - HAND (1) UPS (2) FED-X (3) AIRBORNE (4) TEXAS OVERNIGHT (5) OTHER (6)

(09/92)

TTTCORRESP/DANA\FORMS\CHAIN.C



**FINAL PAGE**

**ADMINISTRATIVE RECORD**

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