

**3R - 326**

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# **REPORTS**

**DATE:**

**2001**

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312326



*Environmental Services  
187 County Road 4980  
Bloomfield, New Mexico 87413  
(505) 632-4409 (office)  
(505) 632-4405 (fax)*

March 20, 2002

Mr. William Olson  
Hydrologist  
Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

APR 04 2002

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2001 GROUND WATER SUMMARY REPORT**

Dear Mr. Olson:

Enclosed for your review is the 2001 Ground Water Summary Report. The report presents monitoring data for eighteen sites having petroleum hydrocarbon impacted ground water, which resulted from the past use of unlined surface impoundments. The sites included in the report are listed in Table 1.

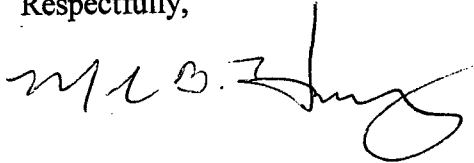
In 2001, three sites met the required remediation standards and were closed with OCD approval. The sites, listed in Table 2, achieved clean closure through a combination of contaminant source removal actions and monitored natural attenuation. Ground water cleanup objectives at each site were met in roughly three years, or less.

Of the eighteen active sites, five have accumulations of LNAPL in one or more monitoring well. In December 2001, the LNAPL accumulations were removed from these wells to evaluate LNAPL recovery rates and to augment the natural attenuation process. In 2002, passive LNAPL collection devices will be deployed or manual LNAPL removal events will be scheduled at some of the sites.

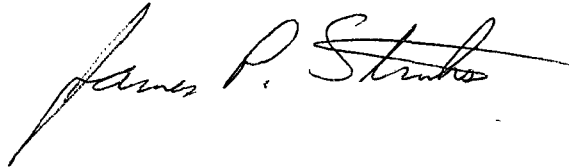
The remaining thirteen active sites either contain concentrations of dissolved BTEX in excess of cleanup standards or have met cleanup standards but have not yet demonstrated four consecutive clean quarters. Pursuant to discussions on the subject with OCD, Williams intends to implement various methods to accelerate the attenuation at select sites. These augmentation methods will be incorporated into an addendum to the Ground Water Management plan.

Thank you for your time to review this submittal. If you have any questions regarding the report, you may call me at (505) 632-4409 or Jim Struhs at (505) 632-4457.

Respectfully,



Mark B. Harvey  
Project Coordinator  
Mark.Harvey@Williams.com



James P. Struhs  
Project Hydrogeologist  
Jim.Struhs@Williams.com

Attachment  
Enclosure

c: Denny Foust, OCD Aztec District Office  
Bill Liess, BLM Farmington District Office

**Table 1. List of Active Sites for 2001 Report**

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification
1	Blanco Wash Drip	J	31	27N	8W	-107.721574	36.530995	19-Feb-99
2	Chamberlain 1	F	14	32N	12W	-108.068853	36.990549	30-Sep-99
3	Davis 1	E	11	31N	12W	-108.068919	36.916257	2-Mar-99
4	Dogie East Pit	D	4	25N	6W	-107.478874	36.434196	7-Jul-97
5	Dogie North Pit	D	4	25N	6W	-107.479158	36.435784	7-Jul-97
6	Florance 124	C	27	29N	9W	-107.76698	36.70209	12-Aug-96
7	Florance 40	G	21	30N	8W	-107.67775	36.800088	27-Jan-97
8	Florance M 47X	G	5	30N	9W	-107.799823	36.843166	27-Jan-97
9	Grenier 4A	M	7	31N	11W	-108.036001	36.910167	18-Oct-99
10	Honolulu Drip	B	15	26N	4W	-107.238469	36.492341	18-Jun-96
11	Ice Canyon Drip	J	13	26N	7W	-107.52226	36.484972	1-Dec-97
12	Jicarilla Contract 147-6	C	6	25N	5W	-107.402363	36.433963	13-Aug-98
13	Kaufman 1	H	33	31N	13W	-108.202128	36.860121	9-Mar-00
14	O' Shea 1M	F	3	31N	13W	-108.193596	36.932228	6-Jun-98
15	Patterson A Com A1	G	2	31N	12W	-108.061165	36.930755	2-Mar-99
16	Pritchard 2	J	6	30N	8W	-107.712068	36.837817	22-Feb-99
17	Wilmerding 1M	C	10	31N	13W	-108.193158	36.91846	5-Jun-98
18	Zachry 18E	O	11	28N	10W	-107.860007	36.670885	6-Sep-96

**Table 2. List of Sites Closed in 2001**

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification	Status
1	Albright #4 Drip	F	22	29N	10W	-107.868451	36.715299	9-Jul-99	Approved; Wells Abandoned
2	Miles Federal 1E Drip	N	5	26N	7W	-107.602489	36.510939	23-Jun-97	Approved; Wells Abandoned
3	Randleman 1	K	13	31N	11W	-107.945067	36.896329	9-May-97	Pending OCD Approval

## Site Summary Report

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**Site Name:** Kaufman 1

**Reporting Period:** 2001

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**Location:** Unit H, Sec 23, Twn 31N, Rng 13W

**Canyon:** La Plata River

**Operator:** Snyder

**Vulnerable Class:** original

**OCD Ranking:** 40

**Lead Agency:** NMOCD / BLM

### Status Narrative

This site has eight monitoring wells, with seven quarters of ground water monitoring completed to date. Currently, all wells have BTEX levels below the method detection limit. A final round of sampling will be conducted in the first quarter of 2002.

# Analytical Data Summary

Site Name:

Kaufman 1

Reporting Period:

7/1/00 To 12/31/01

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
<b>MW-1</b>						
	10/12/00	174812OCT00	<1	1.44	<1	2.30
	1/12/01	122912JAN01	<1	<1	<1	<1
	4/25/01	152025APR01	<1	<1	<1	<1
	10/1/01	152301OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-2</b>						
	10/12/00	180312OCT00	<1	<1	<1	<1
	1/12/01	124112JAN01	<1	<1	<1	<1
<b>MW-3</b>						
	10/12/00	162612OCT00	<1	<1	<1	<1
	1/12/01	125312JAN01	<1	<1	<1	<1
	4/25/01	162125APR01	<1	<1	<1	<1
	10/1/01	151501OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-4</b>						
	10/12/00	153312OCT00	<1	<1	<1	<1
	1/12/01	130412JAN01	<1	<1	<1	2.14
	4/25/01	161225APR01	<1	<1	<1	<1
	10/1/01	151201OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-5</b>						
	10/12/00	155512OCT00	1.01	1.25	<1	2.88
	1/12/01	131712JAN01	<1	<1	<1	<1
	4/25/01	160325APR01	<1	<1	<1	<1
	10/1/01	150901OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-6</b>						
	10/12/00	172112OCT00	<1	<1	<1	<1
	1/12/01	133112JAN01	<1	<1	<1	<1
	4/25/01	153025APR01	1.78	<1	<1	<1
	10/1/01	152801OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-7</b>						
	10/12/00	170612OCT00	<1	<1	<1	<1
	1/12/01	134512JAN01	<1	<1	<1	<1
	4/25/01	154225APR01	<1	<1	<1	<1
	10/1/01	150101OCT01	<1.0	<2.0	<2.0	<2.0

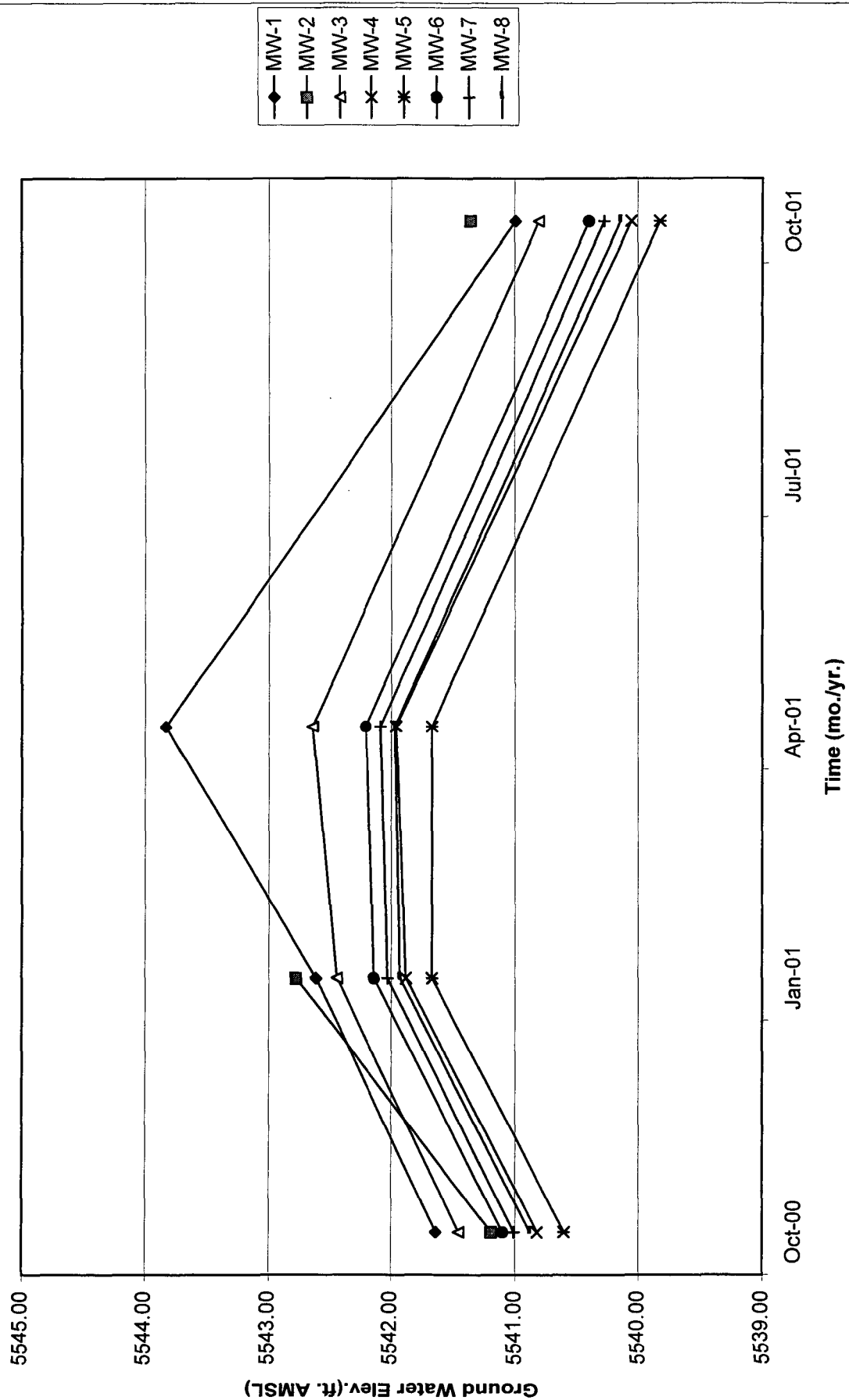
Site Name:  
Kaufman 1

Reporting Period:  
7/1/00 To 12/31/01

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-8						
	10/12/00	164612OCT00	2.65	<1	1.29	2.95
	1/12/01	135912JAN01	<1	<1	<1	<1
	4/25/01	155025APR01	<1	<1	<1	<1
	10/1/01	150601OCT01	<1.0	<2.0	<2.0	<2.0



# Kaufman 1 Hydrograph



# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction:0010518-03A

Sample ID: KAUF-1-UG-MW-1

Sample Matrix: WATER

Sample Date Collected: 10/12/00 17:48:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		1.44	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		2.30	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		75	125	75		

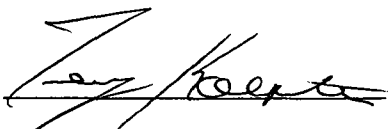
ND=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction:0010518-02A

Sample ID: KAUF-1-SA-MW-2

Sample Matrix: WATER

Sample Date Collected: 10/12/0018:03:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		77	125	75		

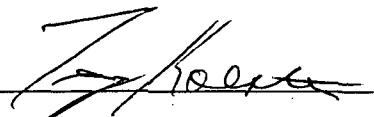
NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction:0010518-07A

Sample ID: KAUF-1-DG-MW-3

Sample Matrix: WATER

Sample Date Collected: 10/12/0016:26:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		76	125	75		

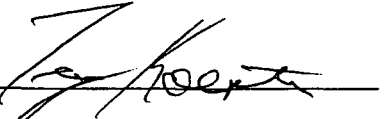
ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
 TO: PO BOX 215  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
 DATE COLLECTED: 10/12/00  
 DATE RECEIVED: 10/18/00

Reference Fraction:0010518-08A

Sample ID: KAUF-1-CG-MW-4

Sample Matrix: WATER

Sample Date Collected: 10/12/0015:33:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		77	125	75		

ND=NONE DETECTED

P=PRRACTICAL QUANTITAION LIMIT

SC=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction: 0010518-05A

Sample ID: KAUF-1-DG-MW-5

Sample Matrix: WATER

Sample Date Collected: 10/12/00 15:55:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		1.01	UG/L	1.0	10/19/00	KKL
TOLUENE		1.25	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		2.88	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		75	125	75		

=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

**Q W A L L A B O R A T O R I E S , I N C .**

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

**LABORATORY REPORT:**

**REFERENCE #:** 0010518

SENT **WILLIAMS GAS PIPELINE**  
 TO: **PO BOX 215**  
**BLOOMFIELD, NM 87413**  
**JIM STRUHS**  
 PROJECT: **WES/KAUFMAN 1**

**DATE REPORTED:** 10/23/00  
**DATE COLLECTED:** 10/12/00  
**DATE RECEIVED:** 10/18/00

**Reference Fraction:**0010518-01A

**Sample ID:** KAUF-1DG-MW-6

**Sample Matrix:** WATER

**Sample Date Collected:** 10/12/0017:21:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		77	125	75		

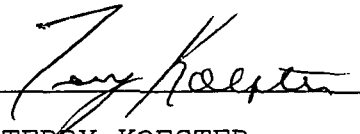
ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction:0010518-04A

Sample ID: KAUF-1-DG-MW-7

Sample Matrix: WATER

Sample Date Collected: 10/12/0017:06:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B				3.0	
BENZENE		ND	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		87	125		75	

NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER  
LABORATORY DIRECTOR



## Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0010518

SENT WILLIAMS GAS PIPELINE  
TO: PO BOX 215  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 10/23/00  
DATE COLLECTED: 10/12/00  
DATE RECEIVED: 10/18/00

Reference Fraction:0010518-06A

Sample ID: KAUF-1-DG-MW-8

Sample Matrix: WATER

Sample Date Collected: 10/12/0016:46:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		2.65	UG/L	1.0	10/19/00	KKL
TOLUENE		ND	UG/L	1.0	10/19/00	KKL
ETHYLBENZENE		1.29	UG/L	1.0	10/19/00	KKL
TOTAL XYLENES		2.95	UG/L	1.0	10/19/00	KKL
BFB (SURROGATE)		78	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

## Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0101411-06A

Sample ID: KAUF1-DG-MW1

Sample Matrix: WATER

Sample Date Collected: 01/12/01 12:29:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		114	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

Reference Fraction: 0101411-05A

Sample ID: KAUF1-DG-MW2

Sample Matrix: WATER

Sample Date Collected: 01/12/01 12:41:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B				3.0	
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		109	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

Reference Fraction:0101411-08A

Sample ID: KAUF1-CG-MW3

Sample Matrix: WATER

Sample Date Collected: 01/12/0112:53:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		109	125	75		

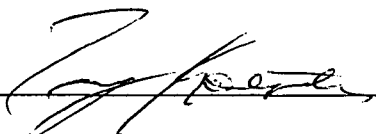
ND=NONE DETECTED

Q=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:



TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0101411-07A

Sample ID: KAUF1-UG-MW4

Sample Matrix: WATER

Sample Date Collected: 01/12/01 13:04:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		2.14	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		117	125	75		

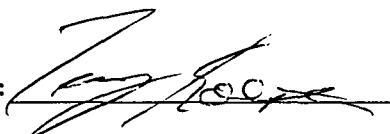
ND=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD # 4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/KAUFMAN 1

DATE REPORTED: 01/22/01  
 DATE COLLECTED: 01/12/01  
 DATE RECEIVED: 01/17/01

Reference Fraction: 0101411-01A

Sample ID: KAUF1-UG-MW5

Sample Matrix: WATER

Sample Date Collected: 01/12/01 13:17:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		112	125	75		

NONE DETECTED

P=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS  
PROJECT: WES/KAUFMAN 1

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

Reference Fraction: 0101411-02A

Sample ID: KAUF1-DG-MW6

Sample Matrix: WATER

Sample Date Collected: 01/12/01 13:31:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		111	125	75		

ND=NONE DETECTED

U=PRACTICAL QUANTITATION LIMIT

SS=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

PROJECT: WES/KAUFMAN 1

Reference Fraction:0101411-04A

Sample ID: KAUF1-SA-MW7

Sample Matrix: WATER

Sample Date Collected: 01/12/0113:45:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		113	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER  
LABORATORY DIRECTOR



# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0101411

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD # 4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 01/22/01  
DATE COLLECTED: 01/12/01  
DATE RECEIVED: 01/17/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0101411-03A

Sample ID: KAUF1-UG-MW8

Sample Matrix: WATER

Sample Date Collected: 01/12/01 13:59:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/18/01	MB
TOLUENE		ND	UG/L	1.0	01/18/01	MB
ETHYLBENZENE		ND	UG/L	1.0	01/18/01	MB
TOTAL XYLENES		ND	UG/L	1.0	01/18/01	MB
BFB (SURROGATE)		116	125	75		

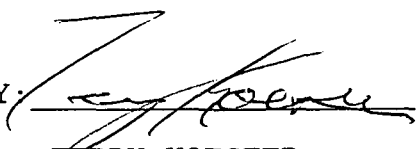
N=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

## Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD #4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 05/11/01  
DATE COLLECTED: 04/25/01  
DATE RECEIVED: 05/01/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0105038-01A

Sample ID: KAUF1-UG-MW1

Sample Matrix: WATER

Sample Date Collected: 04/25/01 15:20:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		102	125	75		

=NONE DETECTED

L=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD #4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 05/11/01  
DATE COLLECTED: 04/25/01  
DATE RECEIVED: 05/01/01

PROJECT: WES/KAUFMAN 1

Reference Fraction:0105038-05A

Sample ID: KAUF1-SA-MW3

Sample Matrix: WATER

Sample Date Collected: 04/25/0116:21:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		100	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
LABORATORY DIRECTOR

*ku*

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD #4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 05/11/01  
DATE COLLECTED: 04/25/01  
DATE RECEIVED: 05/01/01

PROJECT: WES/KAUFMAN 1

Reference Fraction:0105038-03A

Sample ID: KAUF1-DG-MW4

Sample Matrix: WATER

Sample Date Collected: 04/25/0116:12:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B				3.0	
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		99	125	75		

NONE DETECTED

P=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
LABORATORY DIRECTOR

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD #4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 05/11/01  
DATE COLLECTED: 04/25/01  
DATE RECEIVED: 05/01/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0105038-04A

Sample ID: KAUF1-DG-MW5

Sample Matrix: WATER

Sample Date Collected: 04/25/01 16:03:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		97	125	75		

=NONE DETECTED

L=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
LABORATORY DIRECTOR

*Ph*

## Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
TO: 187 COUNTY ROAD #4980  
BLOOMFIELD, NM 87413  
JIM STRUHS

DATE REPORTED: 05/11/01  
DATE COLLECTED: 04/25/01  
DATE RECEIVED: 05/01/01

PROJECT: WES/KAUFMAN 1

Reference Fraction: 0105038-02A

Sample ID: KAUF1-UG-MW6

Sample Matrix: WATER

Sample Date Collected: 04/25/01 15:30:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		1.78	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		97	125	75		

N=NONE DETECTED

L=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
LABORATORY DIRECTOR  
*AK*

# Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

## LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD #4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/KAUFMAN 1

DATE REPORTED: 05/11/01  
 DATE COLLECTED: 04/25/01  
 DATE RECEIVED: 05/01/01

Reference Fraction: 0105038-06A

Sample ID: KAUF1-DG-MW7

Sample Matrix: WATER

Sample Date Collected: 04/25/01 15:42:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		100	125	75		

N=NONE DETECTED

L=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR

*DK*

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 0105038

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD #4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/KAUFMAN 1

DATE REPORTED: 05/11/01  
 DATE COLLECTED: 04/25/01  
 DATE RECEIVED: 05/01/01

Reference Fraction: 0105038-07A

Sample ID: KAUF1-DG-MW8

Sample Matrix: WATER

Sample Date Collected: 04/25/01 15:50:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/04/01	KKL
TOLUENE		ND	UG/L	1.0	05/04/01	KKL
ETHYLBENZENE		ND	UG/L	1.0	05/04/01	KKL
TOTAL XYLENES		ND	UG/L	1.0	05/04/01	KKL
BFB (SURROGATE)		94	125	75		

NR=NONE DETECTED

=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR

*Q*





## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental  
Collected: October 1, 2001  
Received: October 5, 2001

Contact: Jim Struhs  
Analyzed: October 10, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-01A

Field Sample ID: **Kauf 1-MW1**

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

<u>Reporting Limit</u>	<u>Amount Detected</u>
0.0010	< 0.0010
0.0020	< 0.0020
0.0020	< 0.0020
0.0020	< 0.0020

Benzene

Toluene

Ethylbenzene

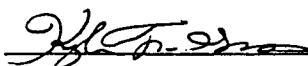
Total Xylene

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
e-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

Page 1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental

Collected: October 1, 2001

Received: October 5, 2001

Contact: Jim Struhs

Analyzed: October 10, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-07A

Field Sample ID: Kauf 1-MW3

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

Reporting  
Limit

Amount  
Detected

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

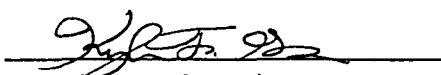
< 0.0020

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
E-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

Page 1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental  
Collected: October 1, 2001  
Received: October 5, 2001

Contact: Jim Struhs  
Analyzed: October 10, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-03A

Field Sample ID: Kauf 1-MW4

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

<u>Reporting Limit</u>	<u>Amount Detected</u>
0.0010	< 0.0010
0.0020	< 0.0020
0.0020	< 0.0020
0.0020	< 0.0020

Benzene

Toluene

Ethylbenzene

Total Xylene

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
E-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

Page 1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental  
Collected: October 1, 2001  
Received: October 5, 2001

Contact: Jim Struhs  
Analyzed: October 15, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-02A

Field Sample ID: **Kauf 1-MW5**

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

Reporting  
Limit

Amount  
Detected

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

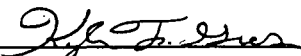
< 0.0020

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
E-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

Page 1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Mile High Environmental

Collected: October 1, 2001

Received: October 5, 2001

Contact: Jim Struhs

Analyzed: October 10, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-06A

Field Sample ID: Kauf 1-MW6

Site ID: Kaufman #1 / SWA-100401-04

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

Reporting  
Limit

Amount  
Detected

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

< 0.0020

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
E-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

Page 1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental

Collected: October 1, 2001

Received: October 5, 2001

Contact: Jim Struhs

Analyzed: October 10, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-04A

Field Sample ID: Kauf 1-MW7

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

Reporting  
Limit

Amount  
Detected

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

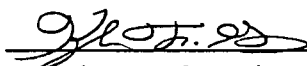
< 0.0020

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-mail: awal@xmission.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by:

  
Laboratory Supervisor

Report Date:

October 19, 2001

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## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental

Collected: October 1, 2001

Received: October 5, 2001

Contact: Jim Struhs

Analyzed: October 15, 2001

Analysis Requested: SW8260B/5030A

Lab Sample ID: L47829-05A

Field Sample ID: Kauf 1-MW8

Site ID: Kaufman #1 / SWA-100401-04

463 West 3600 South  
Salt Lake City, Utah  
84115

### Analytical Results

### MBTEXN/TPH-P

Units = mg/L

Final Dilution Factor: 1

#### Compound

Reporting  
Limit

Amount  
Detected

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

Ethylbenzene

0.0020

< 0.0020

Total Xylene

0.0020

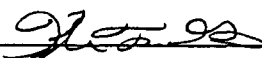
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