

**3R - 315**

# **REPORTS**

**DATE:**

**2001**

312315



*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.

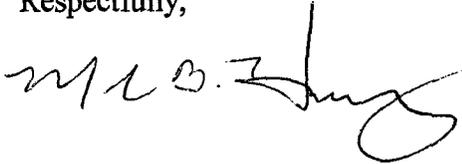
In 2001, three sites met the required remediation standards and were closed with OCD approval. The sites, listed in Table 2, achieved clean closure through a combination of contaminant source removal actions and monitored natural attenuation. Ground water cleanup objectives at each site were met in roughly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

<b>Count</b>	<b>Site Name</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Longitude</b>	<b>Latitude</b>	<b>OCD Initial Notification</b>	<b>Status</b>
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: Florance 40**

**Reporting Period: 2001**

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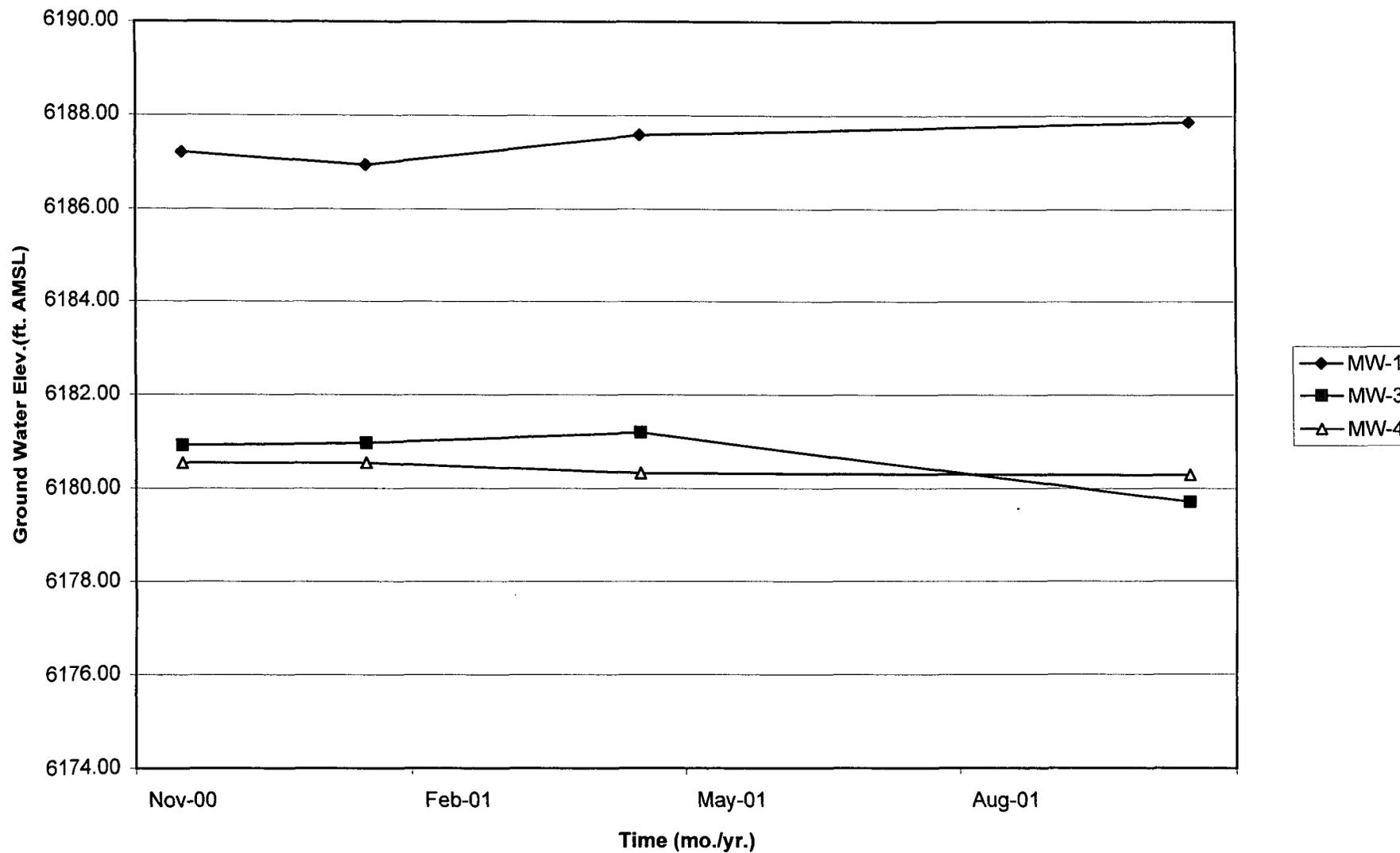
**Location:** Unit G, Sec 21, Twn 30N, Rng 8W  
**Canyon:** Gobernador  
**Operator:** Amoco

**Vulnerable Class:** original  
**OCD Ranking:** 20  
**Lead Agency:** NMOCD

### Status Narrative

This site has six monitoring wells, with seventeen quarters of ground water monitoring completed to date. Accumulations of LNAPL exist in three monitoring wells. The LNAPL thickness in MW-1 increased from 0.04 feet to 0.08 feet during the period. In MW-3, LNAPL thickness increased from 0.05 to 0.25 feet during the period. LNAPL thickness in MW-6 increased from 0.01 to 0.36 feet during the period. Despite these increases in accumulated LNAPL thickness, dissolved BTEX in the downgradient sentinel well, MW-7 have remained below WQCC standards.

**Florance 40 Hydrograph**



# Analytical Data Summary

Site Name:

Florance 40

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>AMOCO</b>						
	11/15/00	162015NOV00	966	64.4	1070	12700
	1/22/01	131922JAN01	1210	299	1750	19400
	4/30/01	124830APR01	1080	71	1030	11600
	10/16/01	132716OCT01	930	13	1100	12000
<b>MW-4</b>						
	11/15/00	154015NOV00	<1	<1	<1	<1
	1/22/01	134522JAN01	15.1	46.1	14.7	306
	4/30/01	132530APR01	103	3.85	2.38	42.5
	10/16/01	135116OCT01	<1.0	<2.0	<2.0	<2.0
<b>MW-5</b>						
	11/15/00	155815NOV00	953	64.8	1600	8010
	1/22/01	133322JAN01	818	<1	1390	7530
	4/30/01	130530APR01	873	124	1450	4320
	10/16/01	134016OCT01	770	73	1300	8000
<b>MW-7</b>						
	11/15/00	152515NOV00	<1	<1	<1	<1
	1/22/01	140022JAN01	<1	5.79	1.51	42.4
	4/30/01	134530APR01	<1	<1	<1	<1
	10/16/01	140716OCT01	<1.0	<2.0	<2.0	3.2

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 #: 0011506

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

DATE REPORTED: 11/27/00  
 DATE COLLECTED: 11/15/00  
 DATE RECEIVED: 11/18/00

PROJECT: WES/FLORANCE 40

Reference Fraction:0011506-02A

Sample ID: FLO40-UG-AMOCO

Sample Matrix: WATER

Sample Date Collected: 11/15/0016:20:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED BY
BTEX	OA1/8021B			3.0 <sup>5</sup>	
BENZENE		966	UG/L	10	11/22/00 MB
TOLUENE		64.4	UG/L	10	11/22/00 MB
ETHYLBENZENE		1070	UG/L	10	11/22/00 MB
TOTAL XYLENES		12700	UG/L	10	11/22/00 MB
BFB (SURROGATE)		103	125	75	

ND=NONE DETECTED

L=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:



TERRY KOESTER  
 LABORATORY DIRECTOR

000002

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 #: 0011506

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

DATE REPORTED: 11/27/00  
 DATE COLLECTED: 11/15/00  
 DATE RECEIVED: 11/18/00

PROJECT: WES/FLORANCE 40

Reference Fraction:0011506-01A

Sample ID: FLO40-DG-MW4

Sample Matrix: WATER

Sample Date Collected: 11/15/0015:40:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	11/20/00	KKL
TOLUENE		ND	UG/L	1.0	11/20/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	11/20/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	11/20/00	KKL
BFB (SURROGATE)		107	125	75		

ND=NONE DETECTED

PQL=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

*Terry Koester*  
 TERRY KOESTER  
 LABORATORY DIRECTOR

000001

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 #: 0011506

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

DATE REPORTED: 11/27/00  
 DATE COLLECTED: 11/15/00  
 DATE RECEIVED: 11/18/00

PROJECT: WES/FLORANCE 40

Reference Fraction:0011506-04A

Sample ID: FLO40-UG-MW5

Sample Matrix: WATER

Sample Date Collected: 11/15/0015:58:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		953	UG/L	10	11/21/00	MB
TOLUENE		64.8	UG/L	10	11/21/00	MB
ETHYLBENZENE		1600	UG/L	10	11/21/00	MB
TOTAL XYLENES		8010	UG/L	10	11/21/00	MB
BFB (SURROGATE)		121	125	75		

ND=NONE DETECTED  
 PL=PRACTICAL QUANTITAION LIMIT  
 SU=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR

000004

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 #: 0011506

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

DATE REPORTED: 11/27/00  
 DATE COLLECTED: 11/15/00  
 DATE RECEIVED: 11/18/00

PROJECT: WES/FLORANCE 40

Reference Fraction:0011506-03A

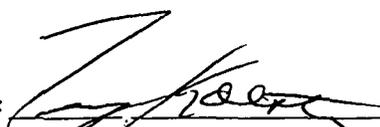
Sample ID: FLO40-DG-MW7

Sample Matrix: WATER

Sample Date Collected: 11/15/0015:25:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	11/20/00	KKL
TOLUENE		ND	UG/L	1.0	11/20/00	KKL
ETHYLBENZENE		ND	UG/L	1.0	11/20/00	KKL
TOTAL XYLENES		ND	UG/L	1.0	11/20/00	KKL
BFB (SURROGATE)		107	125	75		

ND=NONE DETECTED  
 L=PRACTICAL QUANTITAION LIMIT  
 SU=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY:   
 TERRY KOESTER  
 LABORATORY DIRECTOR

000003

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 #: 0101668

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD # 4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORENCE 40

DATE REPORTED: 02/02/01  
 DATE COLLECTED: 01/22/01  
 DATE RECEIVED: 01/27/01

Reference Fraction:0101668-04A  
 Sample ID: FLRN40-UG-AMOCO  
 Sample Date Collected: 01/22/0113:19:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED BY
BTEX	OA1/8021B			3.0	
BENZENE		1210	UG/L	100	01/29/01 KKL
TOLUENE		299	UG/L	100	01/29/01 KKL
ETHYLBENZENE		1750	UG/L	100	01/29/01 KKL
TOTAL XYLENES		19400	UG/L	100	01/29/01 KKL
BFB (SURROGATE)		87	125	75	

ND=NONE DETECTED  
 I=PRACTICAL QUANTITAION LIMIT  
 S=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR

*TK*

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 #: 0101668

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

DATE REPORTED: 02/02/01  
 DATE COLLECTED: 01/22/01  
 DATE RECEIVED: 01/27/01

PROJECT: WES/FLORENCE 40

Reference Fraction: 0101668-02A  
 Sample ID: FLRN40-DG-MW4  
 Sample Date Collected: 01/22/01 13:45:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		15.1	UG/L	1.0	01/29/01	KKL
TOLUENE		46.1	UG/L	1.0	01/29/01	KKL
ETHYLBENZENE		14.7	UG/L	1.0	01/29/01	KKL
TOTAL XYLENES		306	UG/L	1.0	01/29/01	KKL
BFB (SURROGATE)		88	125	75		

ND=NONE DETECTED  
 P=PRACTICAL QUANTITAION LIMIT  
 SU=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR  
 TK

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 #: 0101668

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD # 4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORENCE 40

DATE REPORTED: 02/02/01  
 DATE COLLECTED: 01/22/01  
 DATE RECEIVED: 01/27/01

Reference Fraction: 0101668-03A  
 Sample ID: FLRN40-UG-MW5  
 Sample Date Collected: 01/22/01 13:33:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		818	UG/L	10	01/29/01	KKL
TOLUENE		ND	UG/L	10	01/29/01	KKL
ETHYLBENZENE		1390	UG/L	10	01/29/01	KKL
TOTAL XYLENES		7530	UG/L	10	01/29/01	KKL
BFB (SURROGATE)		96	125	75		

ND=NONE DETECTED  
 =PRACTICAL QUANTITAION LIMIT  
 =STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR  
 TK

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

LABORATORY REPORT:

REFERENCE #: 0101668

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD # 4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORENCE 40

DATE REPORTED: 02/02/01  
 DATE COLLECTED: 01/22/01  
 DATE RECEIVED: 01/27/01

Reference Fraction: 0101668-01A  
 Sample ID: FLRN40-DG-MW7  
 Sample Date Collected: 01/22/01 14:00:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	01/30/01	KKL
TOLUENE		5.79	UG/L	1.0	01/30/01	KKL
ETHYLBENZENE		1.51	UG/L	1.0	01/30/01	KKL
TOTAL XYLENES		42.4	UG/L	1.0	01/30/01	KKL
BFB (SURROGATE)		110	125	75		

ND=NONE DETECTED  
 =PRACTICAL QUANTITATION LIMIT  
 SU=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER  
 LABORATORY DIRECTOR  
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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 #: 0105063

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD #4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORANCE 40

DATE REPORTED: 05/09/01  
 DATE COLLECTED: 04/30/01  
 DATE RECEIVED: 05/02/01

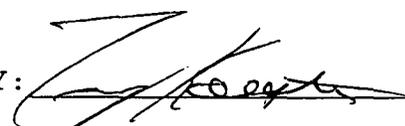
Reference Fraction: 0105063-04A  
 Sample ID: FLRN40-UG-AMOCO  
 Sample Date Collected: 04/30/0112:48:00

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		1080	UG/L	10	05/07/01	MB
TOLUENE		71.0	UG/L	10	05/07/01	MB
ETHYLBENZENE		1030	UG/L	10	05/07/01	MB
TOTAL XYLENES		11600	UG/L	10	05/07/01	MB
BFB (SURROGATE)		111	125	75		

ND=NONE DETECTED  
 P=PRACTICAL QUANTITAION LIMIT  
 S=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 #: 0105063

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

DATE REPORTED: 05/09/01  
 DATE COLLECTED: 04/30/01  
 DATE RECEIVED: 05/02/01

PROJECT: WES/FLORANCE 40

Reference Fraction: 0105063-02A

Sample ID: FLRN40-DG-MW4

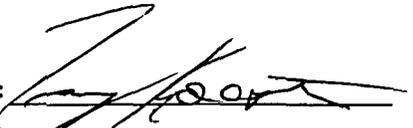
Sample Matrix: WATER

Sample Date Collected: 04/30/01 13:25:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		103	UG/L	1.0	05/07/01	MB
TOLUENE		3.85	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		2.38	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		42.5	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		122	125	75		

ND=NONE DETECTED  
 PL=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 #: 0105063

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD #4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORANCE 40

DATE REPORTED: 05/09/01  
 DATE COLLECTED: 04/30/01  
 DATE RECEIVED: 05/02/01

Reference Fraction: 0105063-03A

Sample ID: FLRN40-UG-MW5

Sample Matrix: WATER

Sample Date Collected: 04/30/01 13:05:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		873	UG/L	10	05/07/01	MB
TOLUENE		124	UG/L	10	05/07/01	MB
ETHYLBENZENE		1450	UG/L	10	05/07/01	MB
TOTAL XYLENES		4320	UG/L	10	05/07/01	MB
BFB (SURROGATE)		124	125	75		

ND=NONE DETECTED  
 PL=PRACTICAL QUANTITATION LIMIT  
 SU=STANDARD UNITS  
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APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR  
 TK

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 #: 0105063

SENT WILLIAMS GAS PIPELINE  
 TO: 187 COUNTY ROAD #4980  
 BLOOMFIELD, NM 87413  
 JIM STRUHS  
 PROJECT: WES/FLORANCE 40

DATE REPORTED: 05/09/01  
 DATE COLLECTED: 04/30/01  
 DATE RECEIVED: 05/02/01

Reference Fraction: 0105063-01A

Sample ID: FLRN40-DG-MW7

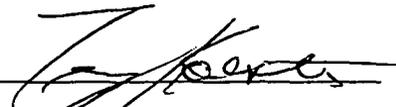
Sample Matrix: WATER

Sample Date Collected: 04/30/01 13:45:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/07/01	MB
TOLUENE		ND	UG/L	1.0	05/07/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/07/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/07/01	MB
BFB (SURROGATE)		108	125	75		

ND=NONE DETECTED  
 PL=PRACTICAL QUANTITAION LIMIT  
 SU=STANDARD UNITS  
 B=DETECTED IN METHOD BLANK

APPROVED BY:



TERRY KOESTER  
 LABORATORY DIRECTOR





ORGANIC ANALYSIS REPORT

Client: Mile High Environmental  
Collected: October 16, 2001  
Received: October 23, 2001

Contact: Jim Struhs  
Analyzed: October 30, 2001

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48053-02A  
Field Sample ID: FLRN40-UG-AMOCO  
Site ID: Florance 40/JPS-102201-01

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

0.93

\*

Toluene

0.0020

0.013

Ethylbenzene

0.0020

1.1

\*

Total Xylene

0.0020

12

\*

(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

\* These analytes were obtained from a 1:50 dilution.

Released by:   
Laboratory Supervisor

Report Date: November 2, 2001 Page 1 of 1



ORGANIC ANALYSIS REPORT

Client: Mile High Environmental  
Collected: October 16, 2001  
Received: October 23, 2001

Contact: Jim Struhs  
Analyzed: October 30, 2001

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48053-03A  
Field Sample ID: FLRN40-DG-MW4  
Site ID: Florance 40/JPS-102201-01

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:

November 2, 2001

Page 1 of 1



ORGANIC ANALYSIS REPORT

Client: Mile High Environmental  
Collected: October 16, 2001  
Received: October 23, 2001

Contact: Jim Struhs  
Analyzed: October 30, 2001

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48053-01A  
Field Sample ID: FLRN40-UG-MW5  
Site ID: Florance 40/JPS-102201-01

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

0.020

0.77

\*

Toluene

0.0020

0.073

Ethylbenzene

0.040

1.3

\*

Total Xylene

0.040

8.0

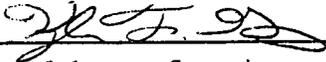
\*

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

\* These analytes were obtained from a 1:20 dilution.

Released by:   
Laboratory Supervisor

Report Date: November 2, 2001 Page 1 of 1



ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Mile High Environmental  
Collected: October 16, 2001  
Received: October 23, 2001

Contact: Jim Struhs  
Analyzed: October 30, 2001

Analysis Requested: SW8260B/5030A

*FIELD SAMPLE I.D. RECORDING ERROR*

48053  
Lab Sample ID: L48052-01A

Field Sample ID: ~~PRTCH-2-DG-MW7~~

*JPS 11/29/02  
FLRN40MW-7*

Site ID: Pritchard 2/JPS-102201-02

*140716 OCT 01 SAMPLE I.D.  
IN DATABASE*

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

**0.0032**

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Released by: *[Signature]*  
Laboratory Supervisor

Report Date: October 30, 2001 Page 1 of 1

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and or analysis in good faith and according to the rules of the trade and of science