# 3R - 321

# REPORTS

DATE:



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 0 4 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	Е	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	С	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	М	7	31N	11W	-108.036001	36.910167	18-Oct-99
10	Honolulu Drip	В	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	С	6	25N	5W	-107.402363	36.433963	13-Aug-98
13	Kaufman 1	Н	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	С	10	31N	13W	-108.193158	36.91846	5-Jun-98
18	Zachry 18E	0	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

Site Name: Honolulu Line Drip Reporting Period: 2001

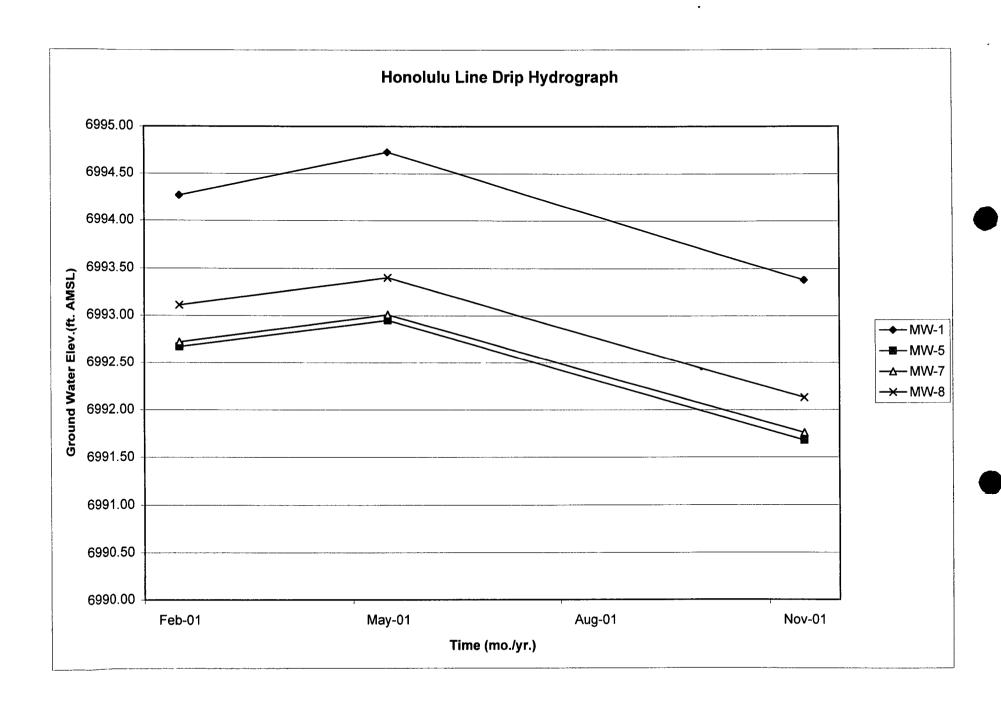
Location: Unit B, Sec 15, Twn 26N, Rng 4W Vulnerable Class: sensitive

Canyon: Tapicito OCD Ranking: 40

Operator: Williams Lead Agency: NMOCD / JAEPO

#### **Status Narrative**

This site has six monitoring wells, with nineteen quarters of monitoring completed to date. Four wells (MW-5, MW-7, MW-12 and MW-13) contained BTEX concentrations in excess of federal drinking water standards in past years. In the fourth quarter of this period, these wells were below the standards for the first time. If these levels are maintained during 2002, this site will be eligible for closure.





Site Name: Honolulu Drip 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-1						
	2/19/01	173119FEB01	<1.0	<1.0	<1.0	<1.0
	5/2/01	110602MAY01	<1	<1	<1	<1
	11/1/01	134001NOV01	<1.0	<2.0	<2.0	<2.0
MW-12			and the second			
	2/13/01	115813FEB01	6.91	2.03	<1	<1
	5/2/01	110102MAY01	8.86	1.86	<1	<1
	11/1/01	134601NOV01	3.9	<2.0	<2.0	<2.0
MW-13						
	2/13/01	120413FEB01	3.21	<1	<1	<1
	5/2/01	114302MAY01	4.28	<1	<1	2.31
	11/1/01	135301NOV01	<1.0	<2.0	<2.0	<2.0
MW-5						
£3331	2/13/01	121113FEB01	79.0	<1	<1	<1
	5/2/01	111102MAY01	197	<1	<1	2.07
	11/1/01	140001NOV01	<1.0	3.3	<2.0	<2.0
MW-7						
_ *************************************	2/13/01	122013FEB01	2.86	<1	<1	1.63
	5/2/01	111902MAY01	5.49	<1	<1	<1
	11/1/01	140401NOV01	<1.0	<2.0	<2.0	<2.0



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

LABORATORY REPORT:

REFERENCE #:

0102507

TO:

SENT WILLIAMS GAS PIPELINE 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

DATE REPORTED: DATE COLLECTED: 02/19/01

DATE RECEIVED:

02/21/01

02/23/01

P.O. #:

SWA-022001-01

PROJECT: WES/HONULULU

Sample ID: HON-UG-MW1

Collection Date: 02/19/01 17:31:00

Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BTEX	OA1/8021B			3.0		
BENZENE	71-43-2	NE	UG/L	1.0	02/22/01KF	ΚL
TOLUENE	108-88-3	NI	UG/L	1.0	02/22/01KF	ΚL
ETHYLBENZENE	100-41-4	NI	UG/L	1.0	02/22/01KF	(L
TOTAL XYLENES	1330-20-7	NE	UG/L	1.0	02/22/01KF	(T
BFB (SURROGATE)	_	88	125	75		

NO-NONE DETECTED

PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

\*BACKGROUND CONTAMINATION

SUR=SURROGATE

Q=OUTSIDE LIMITS

B=DETECTED IN METHOD BLANK

APPROVED BY:-

TERRY KOESTER

LABORATORY DIRECTOR

REFERENCE #: 0102507 PAGE: 1

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

#### LABORATORY REPORT:

**REFERENCE #:** 0102450

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONULULU

Reference Fraction:0102450-03A

Sample ID: HON-DG-MW5

Sample Date Collected: 02/13/0112:11:00

DATE REPORTED: 02/22/01 DATE COLLECTED: 02/13/01

DATE RECEIVED: 02/16/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	79.0 ND ND ND ND 89	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0 1.0	02/19/01 02/19/01 02/19/01 02/19/01	MB MB

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

APPROVED BY:

MERRY KOESTER
LABORATORY DIRECTOR

(DD)

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

LABORATORY REPORT:

REFERENCE #: 0102450

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONULULU

Reference Fraction: 0102450-01A

Sample ID: HON-DG-MW7

Sample Date Collected: 02/13/0112:20:00

02/22/01 DATE REPORTED: DATE COLLECTED: 02/13/01 DATE RECEIVED: 02/16/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		2.86	UG/L	1.0		
TOLUENE		ND	UG/L	1.0	02/19/01	MB
ETHYLBENZENE		ND	UG/L	1.0	02/19/01	MB
TOTAL XYLENES		1.63	UG/L	1.0	02/19/01	MB
BFB (SURROGATE)		93	125	75		

NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TÉRRY KOESTER

LABORATORY DIRECTOR

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

LABORATORY REPORT:

**REFERENCE #:** 0102450

Sample Matrix:

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONULULU

Reference Fraction:0102450-04A

Sample ID: HON-DG-MW12

Sample Date Collected: 02/13/0111:58:00

DATE REPORTED: 02/22/01

DATE COLLECTED: 02/13/01

DATE RECEIVED: 02/16/01

TEST METHOD RESULT UNITS PQL ANALYZED BY BTEX OA1/8021B 3.0 6.91 UG/L 02/19/01 MB BENZENE 1.0 2.03 UG/L 1.0 02/19/01 MB TOLUENE ND UG/L 02/19/01 MB ETHYLBENZENE 1.0 ND UG/L TOTAL XYLENES 1.0 02/19/01 MB BFB (SURROGATE) 83 125 75

ND-NONE DETECTED

PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TEŔRY KOESTER

WATER

LABORATORY DIRECTOR

O.

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

#### LABORATORY REPORT:

**REFERENCE #:** 0102450

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD # 4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONULULU

Reference Fraction: 0102450-02A

Sample ID: HON-DG-MW13

Sample Date Collected: 02/13/0112:04:00

DATE REPORTED: 02/22/01 DATE COLLECTED: 02/13/01

DATE RECEIVED: 02/16/01

Sample Matrix: WATER

TECH	WETHOD	DECIT T	INITTO	DOI	ANATYCED	D.V.
TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		3.21	UG/L	1.0	02/19/01	MB
TOLUENE		ND	UG/L	1.0	02/19/01	MB
ETHYLBENZENE		ND	UG/L	1.0	02/19/01	MB
TOTAL XYLENES		ND	UG/L	1.0	02/19/01	MB
BFB (SURROGATE)		86	125	75		

ND-NONE DETECTED

PRACTICAL QUANTITAION LIMIT

SU≡STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

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

LABORATORY REPORT:

**REFERENCE #:** 0105206

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONOLULU LINE DRIP

Reference Fraction:0105206-03A

Sample ID: HON-DG-MW1

Sample Date Collected: 05/02/0111:06:00

DATE REPORTED: 05/15/01 DATE COLLECTED: 05/02/01

DATE RECEIVED: 05/08/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE	·	ND	UG/L	1.0	05/09/01	MB
TOLUENE		ND	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		99	125	75		

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

**10** 

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

LABORATORY REPORT:

**REFERENCE #:** 0105206

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONOLULU LINE DRIP

Reference Fraction:0105206-02A

Sample ID: HON-DG-MW5

Sample Date Collected: 05/02/0111:11:00

DATE REPORTED: 05/15/01 DATE COLLECTED: 05/02/01

DATE RECEIVED: 05/08/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	197 ND ND 2.07 114	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0 1.0	05/09/01 05/09/01 05/09/01 05/09/01	MB MB

ND=NONE DETECTED

=PRACTICAL QUANTITAION LIMIT

55=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

XERRY KOESTER

LABORATORY DIRECTOR

Oh

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

#### LABORATORY REPORT:

**REFERENCE #:** 0105206

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONOLULU LINE DRIP

Reference Fraction:0105206-01A

Sample ID: HON-DG-MW7

Sample Date Collected: 05/02/0111:19:00

DATE REPORTED: 05/15/01 DATE COLLECTED: 05/02/01

DATE RECEIVED: 05/08/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE	OA1/8021B	5.49 ND ND	UG/L UG/L UG/L	3.0 1.0 1.0	05/09/01 05/09/01 05/09/01	MB
TOTAL XYLENES BFB (SURROGATE)		ND 103	UG/L 125	1.0	05/09/01	

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

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

PDA.

# OWAL LABORATORIES,

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

#### LABORATORY REPORT:

**REFERENCE #:** 0105206

WILLIAMS GAS PIPELINE SENT

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONOLULU LINE DRIP

Reference Fraction:0105206-04A

Sample ID: HON-DG-MW12

Sample Date Collected: 05/02/0111:01:00

DATE REPORTED: 05/15/01

DATE COLLECTED: 05/02/01 DATE RECEIVED: 05/08/01

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	OA1/8021B	8.86 1.86 ND ND 97	UG/L UG/L UG/L UG/L 125	3.0 1.0 1.0 1.0 75	*. *.	MB MB

NONE DETECTED -PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B≈DETECTED IN METHOD BLANK

APPROVED BY:

ERRY KOESTER

LABORATORY DIRECTOR

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

LABORATORY REPORT:

**REFERENCE #:** 0105206

DATE COLLECTED: 05/02/01

DATE RECEIVED: 05/08/01

DATE REPORTED:

SENT WILLIAMS GAS PIPELINE

TO: 187 COUNTY ROAD #4980

BLOOMFIELD, NM 87413

JIM STRUHS

PROJECT: WES/HONOLULU LINE DRIP

Reference Fraction: 0105206-05A

Sample ID: HON-DG-MW13

Sample Date Collected: 05/02/0111:43:00

Sample Matrix: WATER

05/15/01

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0	<del></del>	
BENZENE	•	4.28	UG/L	1.0	05/09/01	MB
TOLUENE		ND	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		ND	UG/L	1.0		
TOTAL XYLENES		2.31	UG/L	1.0		
BFB (SURROGATE)		98	125	75	• •	

ND-NONE DETECTED

PRACTICAL QUANTITAION LIMIT

SU-STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

PERRY KOESTER

LABORATORY DIRECTOR



Client: Mile High Environmental

Collected: November 1, 2001

Received: November 6, 2001

Contact: Jim Struhs

Analyzed: November 14, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48277-01A

Field Sample ID: HON-UG-MW1

Site ID: Honolulu Drip/JPS-110501-02

463 West 3600 South Salt Lake City, Utah

**Analytical Results** 

MBTEXN/TPH-P

84115	Units = mg/L Final Dilution Factor: 1	Reporting	Amount
	Compound	Limit	Detected
	Benzene	0.0010	< 0.0010
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 s-mail: awal @xmission.com	Toluene	0.0020	< 0.0020
	Ethylbenzene	0.0020	< 0.0020
Kyle F. Gross Laboratory Director	Total Xylene	0.0020	< 0.0020
	Surr: Surr 1,2-Dichloroethane	71-136	101 %
Peggy McNicol QA Officer	Surr: Surr Toluene-d8	87-111	99.6 %

Released by:

Laboratory Supervisor

Report Date:

November 19, 2001



Client: Mile High Environmental

Collected: November 1, 2001

Received: November 6, 2001

Contact: Jim Struhs

Analyzed: November 14, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48277-02A

Field Sample ID: HON-DG-MW5

Site ID: Honolulu Drip/JPS-110501-02

463 West 3600 South Salt Lake City, Utah

**Analytical Results** 

MBTEXN/TPH-P

84115	Units = mg/L Final Dilution Factor: 1 Reportin	Reporting	Amount
	Compound	Limit	Detected
	Benzene	0.0010	< 0.0010
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 e-mail: awal @xmission.com	Toluene	0.0020	0.0033
	Ethylbenzene	0.0020	< 0.0020
Kyle F. Gross Laboratory Director	Total Xylene	0.0020	< 0.0020
	Surr: Surr 1,2-Dichloroethane	71-136	102 %
Peggy McNicol QA Officer	Surr: Surr Toluene-d8	87-111	101 %

Released by:

Laboratory Supervisor

Report Date:

November 19, 2001



Client: Mile High Environmental

Collected: November 1, 2001

Received: November 6, 2001

Contact: Jim Struhs

Analyzed: November 14, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48277-03A

Field Sample ID: HON-DG-MW7

Site ID: Honolulu Drip/JPS-110501-02

463 West 3600 South Salt Lake City, Utah

(801) 263-8686

Kyle F. Gross Laboratory Director

> Peggy McNicol QA Officer

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

MBTEXN/TPH-P

Units = mg/L Final Dilution Factor: 1	Reporting	Amount
Compound	Limit	Detected
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Total Xylene	0.0020	< 0.0020
Surr: Surr 1,2-Dichloroethane	71-136	99.5 %
Surr: Surr Toluene-d8	87-111	98.5 %

Released by:

Laboratory Supervisor

Report Date:

November 19, 2001



Client: Mile High Environmental

Collected: November 1, 2001

Received: November 6, 2001

Contact: Jim Struhs

Analyzed: November 14, 2001

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48277-04A

Field Sample ID: **HON-UG-MW12** Site ID: Honolulu Drip/JPS-110501-02

463 West 3600 South Salt Lake City, Utah

**Analytical Results** 

MBTEXN/TPH-P

84115	Units = mg/L Final Dilution Factor: 1	Reporting	Amount
	Compound	Limit	Detected
	Benzene	0.0010	0.0039
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 e-mail: awal@xmission.com	Toluene	0.0020	< 0.0020
	Ethylbenzene	0.0020	< 0.0020
Kyle F. Gross Laboratory Director	Total Xylene	0.0020	< 0.0020
	Surr: Surr 1,2-Dichloroethane	71-136	97.0 %
Peggy McNicol QA Officer	Surr: Surr Toluene-d8	87-111	96.8 %

Released by:

Laboratory Supervisor

Report Date:

November 19, 2001



Client: Mile High Environmental

Collected: November 1, 2001

Received: November 6, 2001

Contact: Jim Struhs

Analyzed: November 14, 2001

**AMERICAN** WEST **ANALYTICAL LABORATORIES** 

Analysis Requested: SW8260B/5030A

Lab Sample ID: L48277-05A

Field Sample ID: HON-DG-MW13 Site ID: Honolulu Drip/JPS-110501-02

463 West 3600 South Salt Lake City, Utah 84115

QA Officer

**Analytical Results** 

MBTEXN/TPH-P

84115	Units = mg/L Final Dilution Factor: 1	Reporting	Amount	
	Compound	Limit	Detected	
	Benzene	0.0010	< 0.0010	
(801) 263-8686 Foll Free (888) 263-8686 Fax (801) 263-8687 s-mail: awal $\hat{q}$ xmission.com	Toluene	0.0020	< 0.0020	
	Ethylbenzene	0.0020	< 0.0020	
Kyle F. Gross Laboratory Director	Total Xylene	0.0020	< 0.0020	
	Surr: Surr 1,2-Dichloroethane	71-136	95.2 %	
Peggy McNicol	Surr: Surr Toluene-d8	87-111	96.3 %	

Released by:

Laboratory Supervisor

Report Date:

November 19, 2001