

AP - 49

**ANNUAL
MONITORING REPORT**

YEAR(S):

2004



Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL

RETURN RECEIPT NO. 7004 1160 0000 4840 9462

March 21, 2005

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

**Re: 2004 Annual Summary of Monitor Well Sampling, Rice Operating Company,
Justis Saltwater Disposal System (SWD) Well #H-2, Unit H, Section 2, T-26-S,
R-37-E, Lea County, New Mexico
NMOCD CASE #1R0423-01**

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2004 Annual Monitor Well Sampling Report for the Rice Operating Company (ROC) Justis SWD Well #H-2 site located in the Justis Salt Water Disposal System.

Background

In January 2002, Rice had installed the three monitor wells to evaluate groundwater in the vicinity of the H-2 injection facility. Soil samples were collected during tank replacement and sample results prompted the placement of the monitor wells. Originally, two monitor wells, MW-1 and MW-2 showed elevated chloride levels. After several quarterly sampling events, MW-2 continued to show elevated chloride levels. As a result, Rice installed two additional monitor wells in February 2004.

Monitor Well Sampling

On March 11, June 28, September 23 and December 21, 2004, Highlander personnel traveled to the location for quarterly sampling. Prior to sampling, the wells were gauged for static water levels. All monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

Each well was purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. Between wells, the pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are shown in Table 1.

Each well was inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level.

Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. All of the samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A. Cumulative analytical data is summarized in Table 2.

Water table maps were generated for all four quarterly sampling events, using the water level measurement data and are included as Figures 3-6. The general hydraulic gradient appears to be consistently towards the north-northwest.

Sample Results

Referring to Table 2, chloride concentrations from monitor wells MW-1, MW-3, MW-4 and MW-5 were all below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L during the last two quarters of 2004. Only MW-2 exceeded the WQCC standard for all four quarters. Benzene levels in all of the monitor wells have fluctuated between near or slightly above WQCC standards to below method detection limits for the past several quarterly sampling events.

Hydrographs representing fluctuations in groundwater levels and benzene concentration graphs were prepared for all of the monitoring wells and are included in Appendix B. The hydrographs of all monitor wells show a general decline in water levels in the past four quarters, although throughout this period there has been significant precipitation. Benzene levels have fluctuated up and down during this decline and do not show a distinct correlation between water level and benzene concentration at this time. Chloride levels have been consistently elevated in MW-2. Chloride concentrations in MW-1 spiked in the first two quarters, but declined to below WQCC standards in the final two quarters. Chloride concentrations in the remaining monitor wells have remained at or below the WQCC standards, with the exception of the second quarter sample from MW-5, which was slightly above the standard (310 mg/L).



Conclusions

Hydrographs of the monitor wells are showing a distinct decline in water levels during 2004, at a time when significant precipitation has occurred in this region. The hydraulic gradient continues to trend towards the north-northwest, although the regional hydraulic gradient is towards the southeast. Both of these issues tend to indicate outside interference with the localized water table, possibly from irrigation wells located to the north of the site. Fluctuations in benzene levels cannot be correlated to water level fluctuations at this time. Benzene levels in MW-2 and MW-3 were slightly above the WQCC standard of 0.01 mg/L in 2004. Chloride levels have been consistently elevated in MW-2. Chloride concentrations in MW-1 spiked in the first two quarters, but declined to below WQCC standards in the final two quarters. Chloride concentrations in the remaining monitor wells have remained at or below the WQCC standards, with the exception of the second quarter sample from MW-5, which was slightly above the standard (310 mg/L).

NMOCD may soon expect a Corrective Action Plan (CAP) submission for this site by Highlander.

Respectfully Submitted,
HIGHLANDER ENVIRONMENTAL CORP.

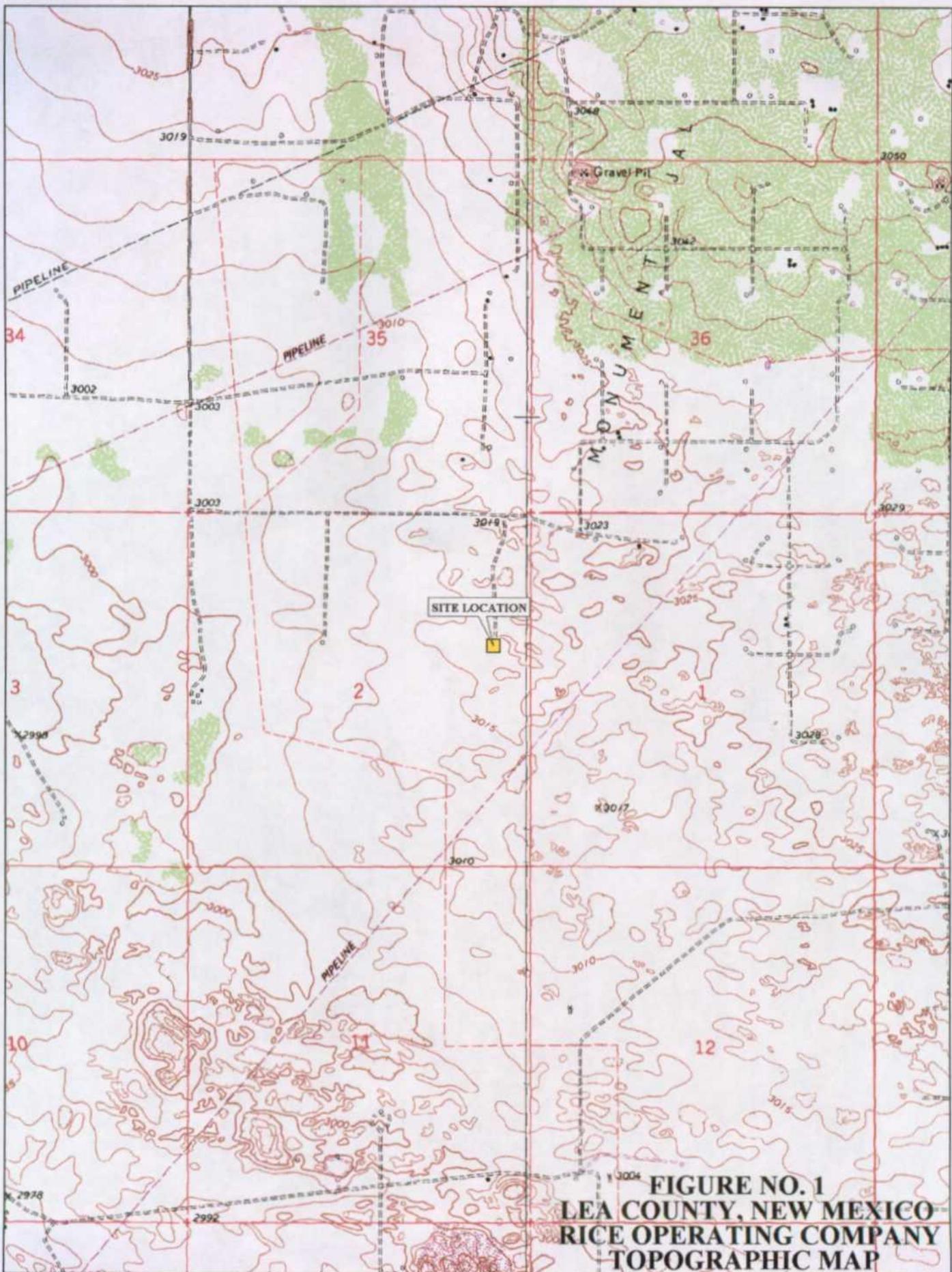


Timothy M. Reed, P.G.
Vice President

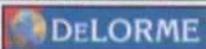
cc: ROC, Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240



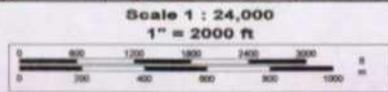
FIGURES



**FIGURE NO. 1
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP**



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www.delorme.com





MW #5



MW #2



MW #4



MW #1

SWD H-2
WELL

21.5'x8'
TANK

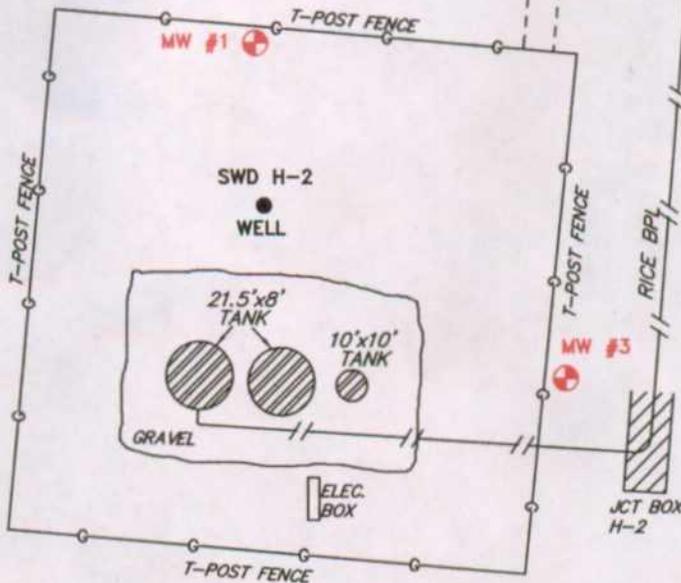
10'x10'
TANK

GRAVEL

ELEC.
BOX

MW #3

JCT BOX
H-2



WELL#	ELEVATION
MW #1	3023.52'
MW #2	3023.03' (TOP STEEL LID), 3022.83' (TOC)
MW #3	3020.13' (TOP BRASS CAP)
MW #4	3023.17'
MW #5	3021.08'

SCALE: 1"=60'

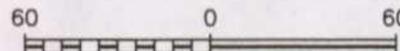


FIGURE NO. 2

LEA COUNTY, NEW MEXICO

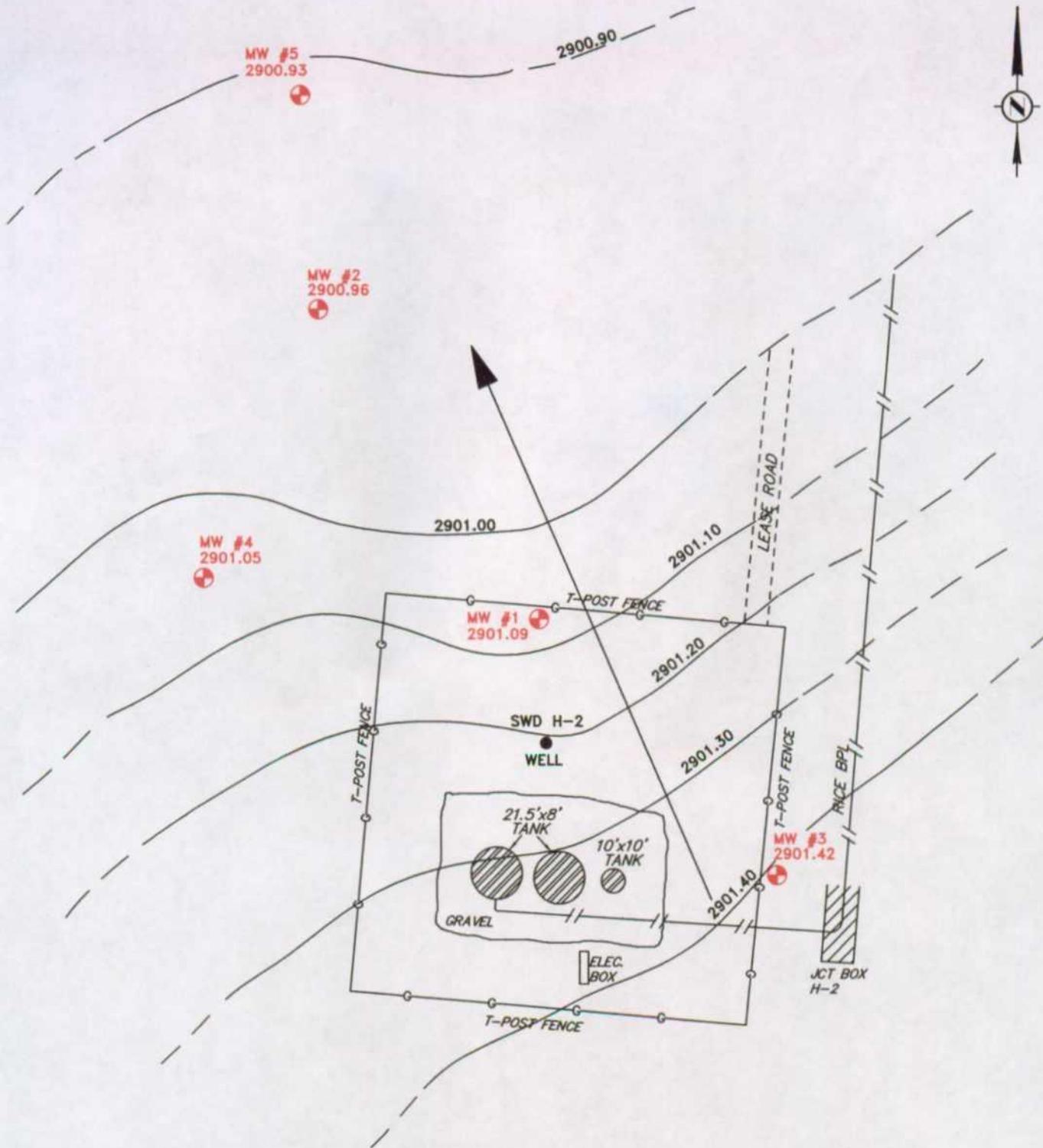
RICE OPERATING COMPANY

SITE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

 MONITOR WELL LOCATION

DATE:
4/30/04
DWG. BY:
JJ
FILE:
C:\PROJ\SITE MAP
A1818



WELL#	ELEVATION
MW #1	3023.52'
MW #2	3023.03' (TOP STEEL LID), 3022.83' (TOC)
MW #3	3020.13' (TOP BRASS CAP)
MW #4	3023.17'
MW #5	3021.08'

SCALE: 1"=60'

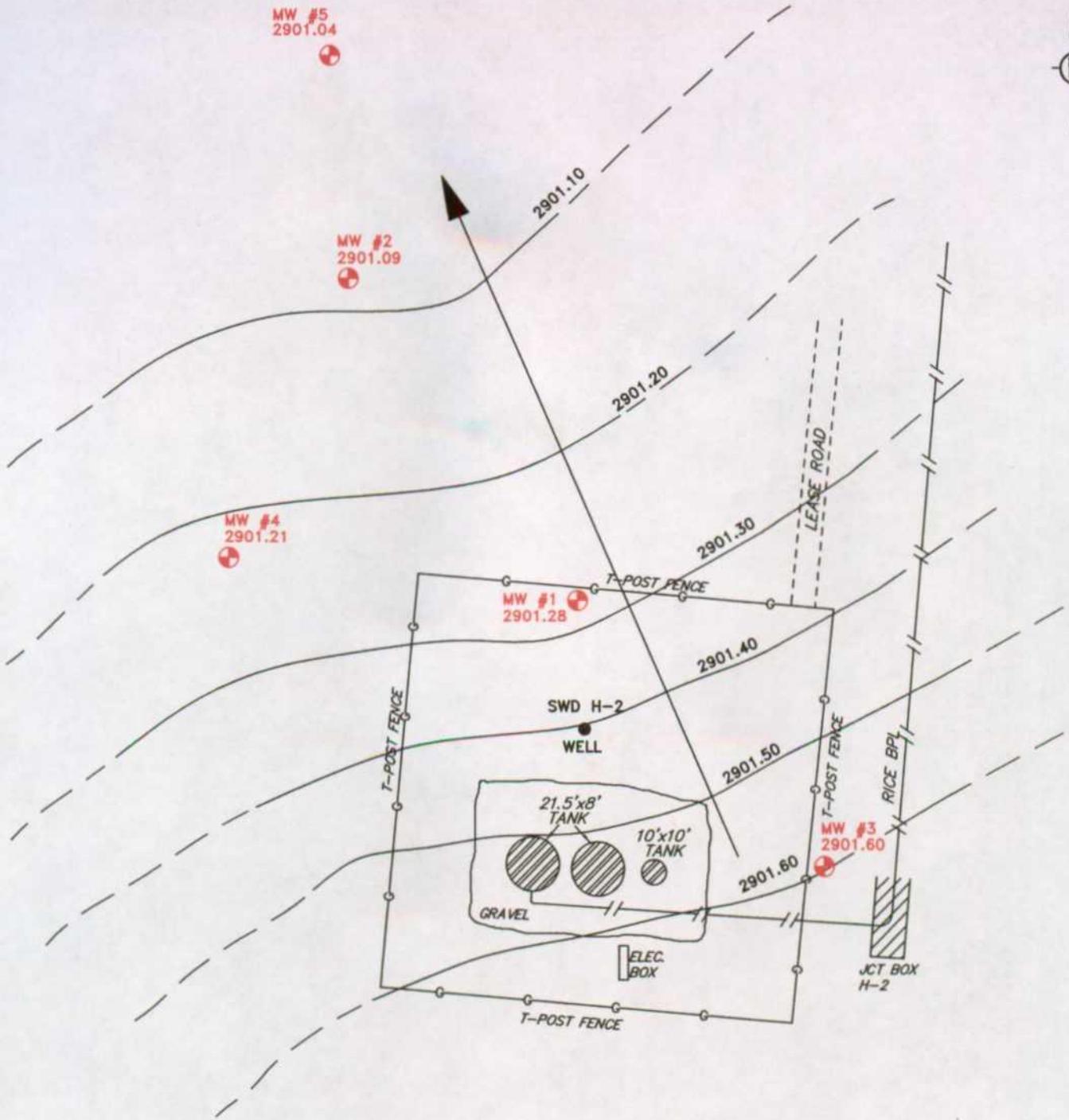


FIGURE NO. 3

LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
3/11/04 WATER TABLE MAP
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DATE:
9/13/04
DWG. BY:
JJ
FILE:
C:\PROJ\WV 3-11
AHTS

MONITOR WELL LOCATION



WELL#	ELEVATION
MW #1	3023.52'
MW #2	3023.03' (TOP STEEL LID), 3022.83' (TOC)
MW #3	3020.13' (TOP BRASS CAP)
MW #4	3023.17'
MW #5	3021.08'

 MONITOR WELL LOCATION

SCALE: 1"=60'

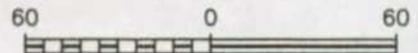


FIGURE NO. 4

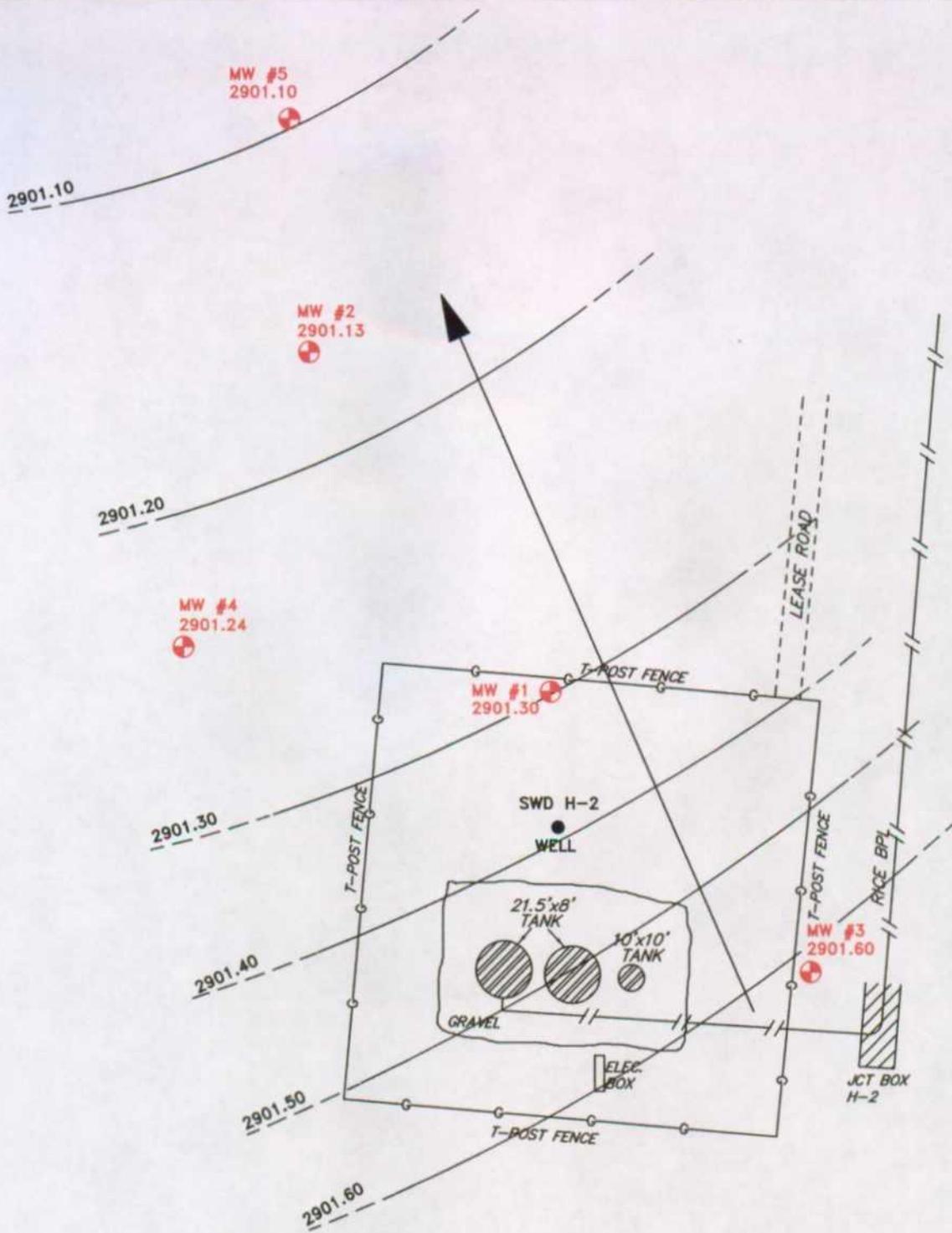
LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

6/28/04 WATER TABLE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
9/13/04
DWG. BY:
JJ
FILE:
C:\RICE\WV 6-28
JUN04



WELL#	ELEVATION
MW #1	3023.52'
MW #2	3023.03' (TOP STEEL LID), 3022.83' (TOC)
MW #3	3020.13' (TOP BRASS CAP)
MW #4	3023.17'
MW #5	3021.08'

MONITOR WELL LOCATION

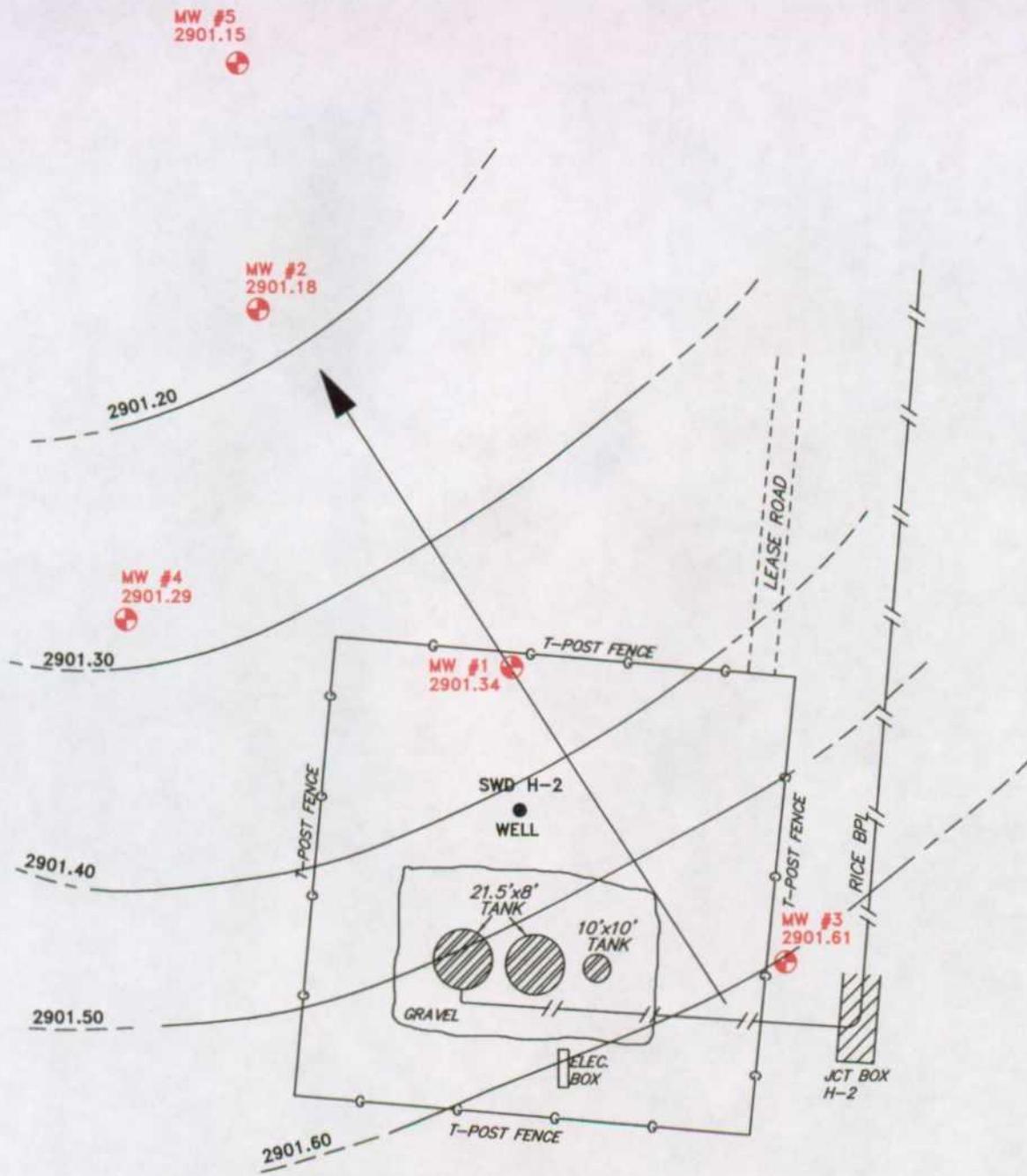
SCALE: 1"=60'



FIGURE NO. 5

LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
9/18/04 WATER TABLE MAP
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DATE:
10/29/04
DWG. BY:
JJ
FILE:
C:\WORK\WIM 9-04
JH78



WELL#	ELEVATION
MW #1	3023.52'
MW #2	3023.03' (TOP STEEL LID), 3022.83' (TOC)
MW #3	3020.13' (TOP BRASS CAP)
MW #4	3023.17'
MW #5	3021.08'

 MONITOR WELL LOCATION

SCALE: 1"=60'



FIGURE NO. 6

LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
12/21/04 WATER TABLE MAP
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DATE:
3/11/05
DWG. BY:
JJ
FILE:
C:\WORK\MW 12-04
A.MTB

TABLES

Table 1

Rice Operating Co.
Justis SWD #H-2
Sample Analysis

MW#	Sample Date	Total Depth (TOC) (feet)	Depth to Water (TOC) (feet)	Purge Volume (gallons)
MW-1	8/16/2002	137	116.20	66
	11/12/2002	144*	123.32	60
	2/13/2003	144*	122.95	70
	5/20/2003	144*	123.34	70
	9/16/2003	144*	122.94	70
	12/16/2003	144*	123.19	70
	3/11/2004	144*	122.43	70
	6/28/2004	144*	122.24	70
	9/23/2004	144*	122.22	70
	12/21/2004	144*	122.18	68
	MW-2	8/16/2002	142	121.85
11/12/2002		142	122.10	25
2/13/2003		142	121.71	25
5/20/2003		142	122.08	25
9/16/2003		142	121.70	25
12/16/2003		142	122.00	30
3/11/2004		142	121.87	30
6/28/2004		142	121.74	30
9/23/2004		142	121.70	25
12/21/2004		142	121.65	10
MW-3		8/16/2003	133	118.68
	11/12/2002	133	118.90	25
	2/13/2003	133	118.53	25
	5/20/2003	133	118.87	25
	9/16/2003	133	118.53	25
	12/16/2003	133	118.79	30
	3/11/2004	133	118.71	30
	6/28/2004	133	118.53	30
	9/23/2004	133	118.52	25
	12/21/2004	133	118.52	7
MW-4	3/11/2004	137	122.12	30
	6/28/2004	137	121.96	30
	9/23/2004	137	121.93	25
	12/21/2004	137	121.88	8
MW-5	3/11/2004	135	120.15	30
	6/28/2004	135	120.04	30
	9/23/2004	135	119.98	25
	12/21/2004	135	119.93	8

* Denotes new TD measurement due to monitor well pipe extension

Table 2
Rice Operating Co.
Justis SWD #H-2
Sample Analysis (in mg/L)

MW#	Sample Date	Chloride	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1 (5")	3/1/2002	301	971	-	-	-	-
	6/10/2002	173	-	0.001	0.008	0.01	0.066
	8/16/2002	111	619	<0.001	<0.001	<0.001	<0.001
	11/12/2002	257	971	<0.001	0.001	<0.001	<0.001
	2/13/2003	97.5	647	<0.001	<0.001	<0.001	<0.001
	5/20/2003	102	682	<0.001	<0.001	<0.001	<0.001
	9/16/2003	594	1920	<0.001	<0.001	<0.001	<0.001
	12/16/2003	81.5	587	0.013	<0.001	<0.001	<0.001
	3/11/2004	727	2060	<0.001	<0.001	<0.001	<0.001
	6/28/2004	1030	3230	0.0056	<0.001	<0.001	<0.001
	9/23/2004	106	749	<0.001	<0.001	<0.001	<0.001
	12/21/2004	93.1	858*	<0.001	<0.001	<0.001	0.00108
	MW-2	3/1/2002	700	1780	-	-	-
5/23/2002		904	2710	<0.001	<0.001	<0.001	<0.001
8/16/2002		1040	3390	<0.001	<0.001	<0.001	<0.001
11/12/2002		1130	2600	0.002	0.003	<0.001	<0.002
2/13/2003		1110	2780	<0.001	<0.001	<0.001	<0.001
5/20/2003		1130	3600	<0.001	<0.001	<0.001	<0.001
9/16/2003		1070	3540	<0.001	<0.001	<0.001	<0.001
12/16/2003		1230	2490	0.032	0.003	<0.001	<0.001
3/11/2004		1200	3660	<0.001	<0.001	<0.001	<0.001
6/28/2004		2570	6290	0.0112	<0.001	<0.001	<0.001
9/23/2004		1130	3760	<0.001	<0.001	<0.001	<0.001
12/21/2004		1150	2877*	0.0055	<0.001	<0.001	<0.001
MW-3		3/1/2002	37.2	561	-	-	-
	5/16/2002	35.4	570	<0.001	<0.001	<0.001	<0.001
	8/16/2002	93.1	631	<0.001	<0.001	<0.001	<0.001
	11/12/2002	97.5	688	0.030	0.014	0.002	0.003
	2/13/2003	102	666	<0.001	<0.001	<0.001	<0.001
	5/20/2003	168	885	<0.001	<0.001	<0.001	<0.001
	9/16/2003	204	568	<0.001	<0.001	<0.001	<0.001
	12/16/2003	40.8	517	0.013	<0.001	<0.001	<0.001
	3/11/2004	65	666	<0.001	<0.001	<0.001	<0.001
	6/28/2004	124	735	0.0124	<0.001	<0.001	<0.001
	9/23/2004	115	703	0.00113	<0.001	<0.001	<0.001
	12/21/2004	154	1057*	0.0127	<0.001	0.00144	<0.001

NOTE: - denotes not analyzed

Table 2
Rice Operating Co.
Justis SWD #H-2
Sample Analysis (in mg/L)

MW#	Sample Date	Chloride	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-4	3/1/2002	-	-	-	-	-	-
	6/10/2002	-	-	-	-	-	-
	8/16/2002	-	-	-	-	-	-
	11/12/2002	-	-	-	-	-	-
	2/13/2003	-	-	-	-	-	-
	5/20/2003	-	-	-	-	-	-
	9/16/2003	-	-	-	-	-	-
	12/16/2003	-	-	-	-	-	-
	3/11/2004	35.4	610	<0.001	<0.001	<0.001	<0.001
	6/28/2004	57.6	596	0.00749	<0.001	<0.001	<0.001
	9/23/2004	53.2	648	<0.001	<0.001	<0.001	<0.001
	12/21/2004	59.1	865*	0.00275	<0.001	<0.001	<0.001
	MW-5	3/1/2002	-	-	-	-	-
5/23/2002		-	-	-	-	-	-
8/16/2002		-	-	-	-	-	-
11/12/2002		-	-	-	-	-	-
2/13/2003		-	-	-	-	-	-
5/20/2003		-	-	-	-	-	-
9/16/2003		-	-	-	-	-	-
12/16/2003		-	-	-	-	-	-
3/11/2004		195	894	<0.001	<0.001	<0.001	<0.001
6/28/2004		310	1130	0.0105	<0.001	0.00108	<0.001
9/23/2004		160	792	<0.001	<0.001	<0.001	<0.001
12/21/2004		165	1072*	0.00292	<0.001	<0.001	<0.001

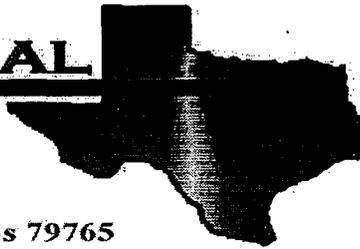
NOTE: - denotes not analyzed

APPENDIX A

Lab Analysis

Lab Report: 3/19/04

E **NVIRONMENTAL**
LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/Justis SWD Well H-2

Project Number: 1863

Location: Lea County, NM

Lab Order Number: 4C12015

Report Date: 03/19/04

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
03/19/04 14:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4C12015-01	Water	03/11/04 10:15	03/12/04 17:20
MW-2	4C12015-02	Water	03/11/04 11:50	03/12/04 17:20
MW-3	4C12015-03	Water	03/11/04 11:15	03/12/04 17:20
MW-4	4C12015-04	Water	03/11/04 13:15	03/12/04 17:20
MW-5	4C12015-05	Water	03/11/04 12:45	03/12/04 17:20

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

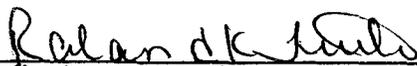
Fax: (432) 682-3946
Reported:
03/19/04 14:15

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4C12015-01)									
Benzene	J [0.000757]	0.00100	mg/L	1	EC41830	03/16/04	03/16/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-120	"	"	"	"	"	
MW-2 (4C12015-02)									
Benzene	J [0.000864]	0.00100	mg/L	1	EC41830	03/16/04	03/16/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		119 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-120	"	"	"	"	"	
MW-3 (4C12015-03)									
Benzene	J [0.000960]	0.00100	mg/L	1	EC41830	03/16/04	03/16/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-120	"	"	"	"	"	
MW-4 (4C12015-04)									
Benzene	ND	0.00100	mg/L	1	EC41830	03/16/04	03/16/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.


Quality Assurance Review

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

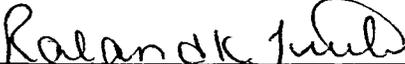
Reported:
03/19/04 14:15

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4C12015-05)									
Benzene	J [0.000868]	0.00100	mg/L	1	EC41830	03/16/04	03/16/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		86.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

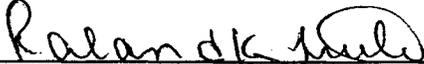
Reported:
03/19/04 14:15

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4C12015-01)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EC41818	03/15/04	03/15/04	EPA 310.2M	
Bicarbonate Alkalinity	150	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	727	5.00	"	"	EC41820	03/15/04	03/15/04	SW 846 9253	
Total Dissolved Solids	2060	5.00	"	"	EC41604	03/16/04	03/16/04	EPA 160.1	
Sulfate	227	2.50	"	5	EC41814	03/15/04	03/15/04	EPA 375.4	
MW-2 (4C12015-02)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EC41818	03/15/04	03/15/04	EPA 310.2M	
Bicarbonate Alkalinity	134	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	1200	5.00	"	"	EC41820	03/15/04	03/15/04	SW 846 9253	
Total Dissolved Solids	3660	5.00	"	"	EC41604	03/16/04	03/16/04	EPA 160.1	
Sulfate	164	1.25	"	2.5	EC41814	03/15/04	03/15/04	EPA 375.4	
MW-3 (4C12015-03)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EC41818	03/15/04	03/15/04	EPA 310.2M	
Bicarbonate Alkalinity	160	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	65.0	5.00	"	"	EC41820	03/15/04	03/15/04	SW 846 9253	
Total Dissolved Solids	666	5.00	"	"	EC41604	03/16/04	03/16/04	EPA 160.1	
Sulfate	203	2.50	"	5	EC41814	03/15/04	03/15/04	EPA 375.4	
MW-4 (4C12015-04)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EC41818	03/15/04	03/15/04	EPA 310.2M	
Bicarbonate Alkalinity	164	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	35.4	5.00	"	"	EC41820	03/15/04	03/15/04	SW 846 9253	
Total Dissolved Solids	610	5.00	"	"	EC41604	03/16/04	03/16/04	EPA 160.1	
Sulfate	174	2.50	"	5	EC41814	03/15/04	03/15/04	EPA 375.4	
MW-5 (4C12015-05)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EC41818	03/15/04	03/15/04	EPA 310.2M	
Bicarbonate Alkalinity	134	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	195	5.00	"	"	EC41820	03/15/04	03/15/04	SW 846 9253	
Total Dissolved Solids	894	5.00	"	"	EC41604	03/16/04	03/16/04	EPA 160.1	
Sulfate	198	2.50	"	5	EC41814	03/15/04	03/15/04	EPA 375.4	

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Quality Assurance Review

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1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

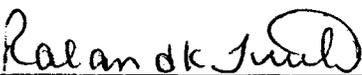
Reported:
03/19/04 14:15

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Environmental Lab of Texas

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Quality Assurance Review

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Midland TX, 79705

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Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

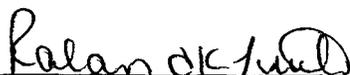
Reported:
03/19/04 14:15

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4C12015-01)									
Calcium	158	1.00	mg/L	100	EC41905	03/16/04	03/19/04	EPA 6010B	
Magnesium	83.6	0.0100	"	10	"	"	03/19/04	"	
Potassium	12.8	0.500	"	"	"	"	"	"	
Sodium	198	1.00	"	100	"	"	03/19/04	"	
MW-2 (4C12015-02)									
Calcium	332	1.00	mg/L	100	EC41905	03/16/04	03/19/04	EPA 6010B	
Magnesium	169	0.100	"	"	"	"	"	"	
Potassium	15.2	0.500	"	10	"	"	03/19/04	"	
Sodium	182	1.00	"	100	"	"	03/19/04	"	
MW-3 (4C12015-03)									
Calcium	59.5	0.100	mg/L	10	EC41905	03/16/04	03/19/04	EPA 6010B	
Magnesium	30.1	0.0100	"	"	"	"	"	"	
Potassium	10.1	0.500	"	"	"	"	"	"	
Sodium	99.4	0.100	"	"	"	"	03/19/04	"	
MW-4 (4C12015-04)									
Calcium	50.5	0.100	mg/L	10	EC41905	03/16/04	03/19/04	EPA 6010B	
Magnesium	26.2	0.0100	"	"	"	"	03/19/04	"	
Potassium	10.6	0.0500	"	1	"	"	03/19/04	"	
Sodium	80.5	0.100	"	10	"	"	03/19/04	"	
MW-5 (4C12015-05)									
Calcium	83.0	0.100	mg/L	10	EC41905	03/16/04	03/19/04	EPA 6010B	
Magnesium	41.5	0.0100	"	"	"	"	"	"	
Potassium	8.43	0.500	"	"	"	"	"	"	
Sodium	99.0	0.100	"	"	"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
03/19/04 14:15

**Organics by GC - Quality Control
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC41830 - EPA 5030C (GC)

Blank (EC41830-BLK1)

Prepared & Analyzed: 03/16/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.4		ug/l	20.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	16.7		"	20.0		83.5	80-120			

LCS (EC41830-BS1)

Prepared & Analyzed: 03/16/04

Benzene	86.3		ug/l	100		86.3	80-120			
Toluene	87.4		"	100		87.4	80-120			
Ethylbenzene	87.6		"	100		87.6	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	92.3		"	100		92.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.8		"	20.0		84.0	80-120			
Surrogate: 4-Bromofluorobenzene	16.7		"	20.0		83.5	80-120			

Calibration Check (EC41830-CCV1)

Prepared & Analyzed: 03/16/04

Benzene	89.6		ug/l	100		89.6	80-120			
Toluene	92.5		"	100		92.5	80-120			
Ethylbenzene	92.8		"	100		92.8	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	99.1		"	100		99.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.7		"	20.0		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	17.3		"	20.0		86.5	80-120			

Duplicate (EC41830-DUP1)

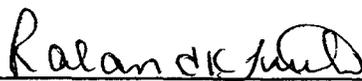
Source: 4C12012-03

Prepared: 03/16/04 Analyzed: 03/18/04

Benzene	0.0204	0.00100	mg/L		0.0250			20.3	20	
Toluene	ND	0.00100	"		ND				20	
Ethylbenzene	0.00265	0.00100	"		0.00290			9.01	20	
Xylene (p/m)	0.00190	0.00100	"		0.00180			5.41	20	
Xylene (o)	ND	0.00100	"		ND				20	
Surrogate: a,a,a-Trifluorotoluene	21.6		ug/l	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	16.5		"	20.0		82.5	80-120			

Environmental Lab of Texas

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Quality Assurance Review

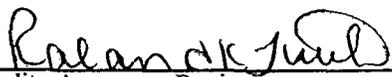
Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705	Project: Rice/Justis SWD Well H-2 Project Number: 1863 Project Manager: Ike Tavaréz	Fax: (432) 682-3946 Reported: 03/19/04 14:15
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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41830 - EPA 5030C (GC)										
Matrix Spike (EC41830-MS1)										
		Source: 4C12012-05			Prepared: 03/16/04		Analyzed: 03/18/04			
Benzene	88.6		ug/l	100	ND	88.6	80-120			
Toluene	89.6		"	100	ND	89.6	80-120			
Ethylbenzene	93.4		"	100	ND	93.4	80-120			
Xylene (p/m)	184		"	200	ND	92.0	80-120			
Xylene (o)	94.1		"	100	ND	94.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.5		"	20.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	18.8		"	20.0		94.0	80-120			

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Quality Assurance Review

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
03/19/04 14:15

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC41604 - General Preparation (WetChem)

Blank (EC41604-BLK1) Prepared & Analyzed: 03/16/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EC41604-DUP1) Source: 4C12015-01 Prepared & Analyzed: 03/16/04

Total Dissolved Solids 2060 5.00 mg/L 2060 0.00 20

Batch EC41814 - General Preparation (WetChem)

Blank (EC41814-BLK1) Prepared & Analyzed: 03/15/04

Sulfate ND 0.500 mg/L

Calibration Check (EC41814-CCV1) Prepared & Analyzed: 03/15/04

Sulfate 48.0 mg/L 50.0 96.0 80-120

Duplicate (EC41814-DUP1) Source: 4C12015-01 Prepared & Analyzed: 03/15/04

Sulfate 222 2.50 mg/L 227 2.23 20

Batch EC41818 - General Preparation (WetChem)

Blank (EC41818-BLK1) Prepared & Analyzed: 03/15/04

Carbonate Alkalinity ND 0.100 mg/L

Bicarbonate Alkalinity ND 2.00 "

Hydroxide Alkalinity ND 0.100 "

Duplicate (EC41818-DUP1) Source: 4C12015-01 Prepared & Analyzed: 03/15/04

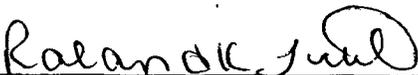
Carbonate Alkalinity 0.00 0.100 mg/L 0.00 20

Bicarbonate Alkalinity 149 2.00 " 150 0.669 20

Hydroxide Alkalinity 0.00 0.100 " 0.00 20

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Midland TX, 79705

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Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

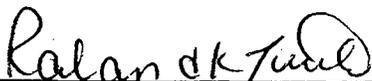
Reported:
03/22/04 16:12

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41818 - General Preparation (WetChem)										
Reference (EC41818-SRM1)				Prepared & Analyzed: 03/15/04						
Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-200			
Batch EC41820 - General Preparation (WetChem)										
Blank (EC41820-BLK1)				Prepared & Analyzed: 03/15/04						
Chloride	ND	5.00	mg/L							
Matrix Spike (EC41820-MS1)				Source: 4C12015-01 Prepared & Analyzed: 03/15/04						
Chloride	1220	5.00	mg/L	500	727	98.6	80-120			
Matrix Spike Dup (EC41820-MSD1)				Source: 4C12015-01 Prepared & Analyzed: 03/15/04						
Chloride	1210	5.00	mg/L	500	727	96.6	80-120	0.823	20	
Reference (EC41820-SRM1)				Prepared & Analyzed: 03/15/04						
Chloride	4960		mg/L	5000		99.2	80-120			

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Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
03/19/04 14:15

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC41905 - General Preparation (Metals)

Blank (EC41905-BLK1)

Prepared: 03/16/04 Analyzed: 03/19/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EC41905-CCV1)

Prepared: 03/16/04 Analyzed: 03/19/04

Calcium	1.93		mg/L	2.00		96.5	85-115			
Magnesium	1.98		"	2.00		99.0	85-115			
Potassium	1.73		"	2.00		86.5	85-115			
Sodium	1.78		"	2.00		89.0	85-115			

Duplicate (EC41905-DUP1)

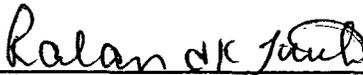
Source: 4C12015-01

Prepared: 03/16/04 Analyzed: 03/19/04

Calcium	159	1.00	mg/L		158			0.631	20	
Magnesium	83.8	0.0100	"		83.6			0.239	20	
Potassium	12.9	0.500	"		12.8			0.778	20	
Sodium	202	1.00	"		198			2.00	20	

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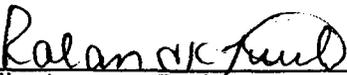
Reported:
03/19/04 14:15

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Quality Assurance Review

Page 12 of 12

**Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In**

Client: Highlander

Date/Time: 3-12-04 1720

Order #: 4C 12015

Initials: KA

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.0	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	

Other observations:

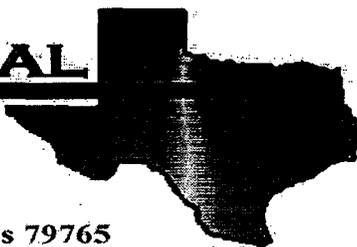
Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

Lab Report: 7/09/04

E **NVIRONMENTAL**
LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/Justis SWD Well H-2

Project Number: 1863

Location: Lea County, NM

Lab Order Number: 4F28008

Report Date: 07/09/04

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
07/09/04 10:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4F28008-01	Water	06/28/04 10:15	06/28/04 16:55
MW-2	4F28008-02	Water	06/28/04 11:30	06/28/04 16:55
MW-3	4F28008-03	Water	06/28/04 11:00	06/28/04 16:55
MW-4	4F28008-04	Water	06/28/04 12:45	06/28/04 16:55
MW-5	4F28008-05	Water	06/28/04 12:10	06/28/04 16:55

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
07/09/04 10:50

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4F28008-01) Water									
Benzene	0.00560	0.00100	mg/L	1	EG40702	07/06/04	07/06/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-120	"	"	"	"	"	
MW-2 (4F28008-02) Water									
Benzene	0.0112	0.00100	mg/L	1	EG40702	07/06/04	07/06/04	EPA 8021B	
Toluene	J [0.000625]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	J [0.000974]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	J [0.000484]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120	"	"	"	"	"	
MW-3 (4F28008-03) Water									
Benzene	0.0124	0.00100	mg/L	1	EG40702	07/06/04	07/06/04	EPA 8021B	
Toluene	J [0.000722]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	J [0.000950]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	J [0.000468]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120	"	"	"	"	"	
MW-4 (4F28008-04) Water									
Benzene	0.00749	0.00100	mg/L	1	EG40702	07/06/04	07/06/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000658]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	J [0.000372]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705	Project: Rice/Justis SWD Well H-2 Project Number: 1863 Project Manager: Ike Tavaréz	Fax: (432) 682-3946 Reported: 07/09/04 10:50
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4F28008-05) Water									
Benzene	0.0105	0.00100	mg/L	1	EG40702	07/06/04	07/06/04	EPA 8021B	
Toluene	J [0.000654]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	0.00108	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000281]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
07/09/04 10:50

**General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4F28008-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EG40614	06/30/04	06/30/04	EPA 310.2M	
Bicarbonate Alkalinity	157	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	1030	5.00	"	"	EF43007	06/29/04	06/29/04	EPA 325.3M	
Total Dissolved Solids	3230	5.00	"	"	EG40612	07/01/04	07/02/04	EPA 160.1	
Sulfate	349	0.500	"	"	EG40613	07/02/04	07/02/04	EPA 375.4	
MW-2 (4F28008-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EG40614	06/30/04	06/30/04	EPA 310.2M	
Bicarbonate Alkalinity	132	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	2570	5.00	"	"	EF43007	06/29/04	06/29/04	EPA 325.3M	
Total Dissolved Solids	6290	5.00	"	"	EG40612	07/01/04	07/02/04	EPA 160.1	
Sulfate	208	0.500	"	"	EG40613	07/02/04	07/02/04	EPA 375.4	
MW-3 (4F28008-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EG40614	06/30/04	06/30/04	EPA 310.2M	
Bicarbonate Alkalinity	176	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	124	5.00	"	"	EF43007	06/29/04	06/29/04	EPA 325.3M	
Total Dissolved Solids	735	5.00	"	"	EG40612	07/01/04	07/02/04	EPA 160.1	
Sulfate	295	0.500	"	"	EG40613	07/02/04	07/02/04	EPA 375.4	
MW-4 (4F28008-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EG40614	06/30/04	06/30/04	EPA 310.2M	
Bicarbonate Alkalinity	183	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	57.6	5.00	"	"	EF43007	06/29/04	06/29/04	EPA 325.3M	
Total Dissolved Solids	596	5.00	"	"	EG40612	07/01/04	07/02/04	EPA 160.1	
Sulfate	225	0.500	"	"	EG40613	07/02/04	07/02/04	EPA 375.4	

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
07/09/04 10:50

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4F28008-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EG40614	06/30/04	06/30/04	EPA 310.2M	
Bicarbonate Alkalinity	145	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	310	5.00	"	"	EF43007	06/29/04	06/29/04	EPA 325.3M	
Total Dissolved Solids	1130	5.00	"	"	EG40612	07/01/04	07/02/04	EPA 160.1	
Sulfate	238	0.500	"	"	EG40613	07/02/04	07/02/04	EPA 375.4	

Highlander Environmental Corp.
1910 N. Big Spring St.
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Project: Rice/Justis SWD Well H-2
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Fax: (432) 682-3946
Reported:
07/09/04 10:50

**Total Metals by EPA / Standard Methods
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4F28008-01) Water									
Calcium	244	1.00	mg/L	100	EG40211	07/01/04	07/01/04	EPA 6010B	
Magnesium	137	0.100	"	"	"	"	"	"	
Potassium	17.8	0.500	"	10	"	"	"	"	
Sodium	316	1.00	"	100	"	"	"	"	
MW-2 (4F28008-02) Water									
Calcium	560	1.00	mg/L	100	EG40211	07/01/04	07/01/04	EPA 6010B	
Magnesium	294	0.100	"	"	"	"	"	"	
Potassium	33.6	0.500	"	10	"	"	"	"	
Sodium	559	1.00	"	100	"	"	"	"	
MW-3 (4F28008-03) Water									
Calcium	127	1.00	mg/L	100	EG40211	07/01/04	07/01/04	EPA 6010B	
Magnesium	64.2	0.0100	"	10	"	"	"	"	
Potassium	16.3	0.500	"	"	"	"	"	"	
Sodium	172	1.00	"	100	"	"	"	"	
MW-4 (4F28008-04) Water									
Calcium	57.8	0.100	mg/L	10	EG40211	07/01/04	07/01/04	EPA 6010B	
Magnesium	31.0	0.0100	"	"	"	"	"	"	
Potassium	7.19	0.500	"	"	"	"	"	"	
Sodium	92.8	0.100	"	"	"	"	"	"	
MW-5 (4F28008-05) Water									
Calcium	128	1.00	mg/L	100	EG40211	07/01/04	07/01/04	EPA 6010B	
Magnesium	60.8	0.0100	"	10	"	"	"	"	
Potassium	11.5	0.500	"	"	"	"	"	"	
Sodium	122	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

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 Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
 07/09/04 10:50

**Organics by GC - Quality Control
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG40702 - EPA 5030C (GC)										
Blank (EG40702-BLK1) Prepared & Analyzed: 07/06/04										
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.3		ug/l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120			
LCS (EG40702-BS1) Prepared & Analyzed: 07/06/04										
Benzene	94.2		ug/l	100		94.2	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	216		"	200		108	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.1		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			
Calibration Check (EG40702-CCV1) Prepared & Analyzed: 07/06/04										
Benzene	85.5		ug/l	100		85.5	80-120			
Toluene	93.4		"	100		93.4	80-120			
Ethylbenzene	87.9		"	100		87.9	80-120			
Xylene (p/m)	186		"	200		93.0	80-120			
Xylene (o)	87.1		"	100		87.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.6		"	20.0		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	17.8		"	20.0		89.0	80-120			
Matrix Spike (EG40702-MS1) Source: 4F28004-06 Prepared & Analyzed: 07/06/04										
Benzene	114		ug/l	100	ND	114	80-120			
Toluene	117		"	100	ND	117	80-120			
Ethylbenzene	118		"	100	ND	118	80-120			
Xylene (p/m)	239		"	200	ND	120	80-120			
Xylene (o)	116		"	100	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	22.0		"	20.0		110	80-120			

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/Justis SWD Well H-2
 Project Number: 1863
 Project Manager: Ike Tavaraz

Fax: (432) 682-3946
 Reported:
 07/09/04 10:50

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG40702 - EPA 5030C (GC)

Matrix Spike (EG40702-MS2)

Source: 4F28005-01

Prepared & Analyzed: 07/06/04

Benzene	112		ug/l	100	ND	112	80-120			
Toluene	114		"	100	ND	114	80-120			
Ethylbenzene	114		"	100	ND	114	80-120			
Xylene (p/m)	233		"	200	ND	116	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.3		"	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	19.6		"	20.0		98.0	80-120			

Matrix Spike Dup (EG40702-MSD1)

Source: 4F28004-06

Prepared & Analyzed: 07/06/04

Benzene	103		ug/l	100	ND	103	80-120	10.1	20	
Toluene	110		"	100	ND	110	80-120	6.17	20	
Ethylbenzene	106		"	100	ND	106	80-120	10.7	20	
Xylene (p/m)	216		"	200	ND	108	80-120	10.5	20	
Xylene (o)	102		"	100	ND	102	80-120	12.8	20	
Surrogate: a,a,a-Trifluorotoluene	22.5		"	20.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	21.0		"	20.0		105	80-120			

Matrix Spike Dup (EG40702-MSD2)

Source: 4F28005-01

Prepared & Analyzed: 07/06/04

Benzene	112		ug/l	100	ND	112	80-120	0.00	20	
Toluene	117		"	100	ND	117	80-120	2.60	20	
Ethylbenzene	116		"	100	ND	116	80-120	1.74	20	
Xylene (p/m)	235		"	200	ND	118	80-120	1.71	20	
Xylene (o)	114		"	100	ND	114	80-120	5.41	20	
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
07/09/04 10:50

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF43007 - General Preparation (WetChem)										
Blank (EF43007-BLK1) Prepared & Analyzed: 06/29/04										
Chloride	ND	5.00	mg/L							
Matrix Spike (EF43007-MS1) Source: 4F28008-03 Prepared & Analyzed: 06/29/04										
Chloride	603	5.00	mg/L	500	124	95.8	80-120			
Matrix Spike Dup (EF43007-MSD1) Source: 4F28008-03 Prepared & Analyzed: 06/29/04										
Chloride	612	5.00	mg/L	500	124	97.6	80-120	1.48	20	
Reference (EF43007-SRM1) Prepared & Analyzed: 06/29/04										
Chloride	5320		mg/L	5000		106	80-120			
Batch EG40612 - Filtration Preparation										
Blank (EG40612-BLK1) Prepared: 07/01/04 Analyzed: 07/02/04										
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EG40612-DUP1) Source: 4F30001-07 Prepared: 07/01/04 Analyzed: 07/02/04										
Total Dissolved Solids	567	5.00	mg/L		579			2.09	20	
Batch EG40613 - General Preparation (WetChem)										
Blank (EG40613-BLK1) Prepared & Analyzed: 07/02/04										
Sulfate	ND	0.500	mg/L							
Calibration Check (EG40613-CCV1) Prepared & Analyzed: 07/02/04										
Sulfate	56.1		mg/L	50.0		112	80-120			

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Reported:
 07/09/04 10:50

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG40613 - General Preparation (WetChem)										
Duplicate (EG40613-DUP1)		Source: 4F28008-01			Prepared & Analyzed: 07/02/04					
Sulfate	350	0.500	mg/L		349			0.286	20	
Batch EG40614 - General Preparation (WetChem)										
Blank (EG40614-BLK1)		Prepared & Analyzed: 06/30/04								
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Duplicate (EG40614-DUP1)		Source: 4F30001-08			Prepared & Analyzed: 06/30/04					
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	158	2.00	"		186			16.3	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EG40614-SRM1)		Prepared & Analyzed: 06/30/04								
Carbonate Alkalinity	0.0575		mg/L	0.0500		115	80-120			

Highlander Environmental Corp.
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Reported:
 07/09/04 10:50

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG40211 - General Preparation (Metals)

Blank (EG40211-BLK1) Prepared & Analyzed: 07/01/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

LCS (EG40211-BS1) Prepared: 07/01/04 Analyzed: 07/07/04

Calcium	2.07	0.0100	mg/L	2.00		104	85-115			
Magnesium	2.03	0.00100	"	2.00		102	85-115			
Potassium	1.80	0.0500	"	2.00		90.0	85-115			
Sodium	1.92	0.0100	"	2.00		96.0	85-115			

LCS Dup (EG40211-BSD1) Prepared: 07/01/04 Analyzed: 07/07/04

Calcium	2.02	0.0100	mg/L	2.00		101	85-115	2.44	20	
Magnesium	2.00	0.00100	"	2.00		100	85-115	1.49	20	
Potassium	1.72	0.0500	"	2.00		86.0	85-115	4.55	20	
Sodium	1.89	0.0100	"	2.00		94.5	85-115	1.57	20	

Calibration Check (EG40211-CCV1) Prepared & Analyzed: 07/01/04

Calcium	2.02		mg/L	2.00		101	85-115			
Magnesium	2.00		"	2.00		100	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.89		"	2.00		94.5	85-115			

Highlander Environmental Corp.
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Reported:
07/09/04 10:50

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 7-09-04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Highlander Envr

Date/Time: 8/28/04

Order #: _____

Initials: JH

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	4°C C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present
Chain of custody present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Container labels legible and intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples properly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample bottles intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Rice operating SITE MANAGER: Ike Tavaraz

PROJECT NO.: 1863 PROJECT NAME: Mice/Justis SWD well #H-2

LAB I.D. NUMBER: 4F2808 DATE: 6/29/04 TIME: 10:15 GRAB: X COMP. MATRIX: MW-1

SAMPLE IDENTIFICATION: Leq County, NM

DATE: 11:30 TIME: 11:00 GRAB: X COMP. MATRIX: MW-2

DATE: 12:45 TIME: 12:45 GRAB: X COMP. MATRIX: MW-3

DATE: 13:10 TIME: 13:10 GRAB: X COMP. MATRIX: MW-4

DATE: 13:10 TIME: 13:10 GRAB: X COMP. MATRIX: MW-5

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

DATE: _____ TIME: _____ GRAB: _____ COMP. MATRIX: _____

ANALYSIS REQUEST (Circle or Specify Method No.)	DATE	TIME	GRAB	COMP.	MATRIX	LAB I.D. NUMBER	DATE	TIME	GRAB	COMP.	MATRIX
PCB # 8080/808											
GCMS VAL 8240/8260/824											
GCMS SEMI VOL 8270/825											
PCB # 8080/808											
BOD, TSS, pH, TDS, Chloride											
Gamma Spec											
Alpha Beta (Air)											
PLM (Asbestos)											
Major Ions											
PCB # 8080/808											
GCMS VAL 8240/8260/824											
GCMS SEMI VOL 8270/825											
PCB # 8080/808											
BOD, TSS, pH, TDS, Chloride											
Gamma Spec											
Alpha Beta (Air)											
PLM (Asbestos)											
Major Ions											

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: _____ STATE: TX ZIP: _____

CITY: 01234 PHONE: _____

CONTACT: _____

MATRIX: 402

DATE: 6-28-04 TIME: 1655

REMARKS: 2-VOA's each
1-1L Poly each

HIGHLANDER CONTACT PERSON: Ike Tavaraz

RECEIVED BY: (Print & Sign) Max Taylor & Jeremy Tomez Date: 6/29/04

SAMPLE SHIPPED BY: (Circle) _____

FEDER: _____ HAND DELIVERED: _____ AIRBILL # _____

BUS: _____ UPS: _____ OTHER: _____

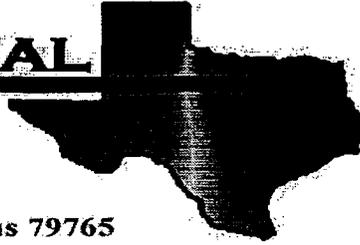
Remits by: _____

RUSH Charges Authorized: _____

Yes _____ No _____

Lab Report: 10/04/04

E NVIRONMENTAL
LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ Justis SWD Well H-2

Project Number: 1863

Location: None Given

Lab Order Number: 4124017

Report Date: 10/04/04

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4124017-01	Water	09/23/04 11:25	09/24/04 15:50
MW-2	4124017-02	Water	09/23/04 11:55	09/24/04 15:50
MW-3	4124017-03	Water	09/23/04 10:30	09/24/04 15:50
MW-4	4124017-04	Water	09/23/04 12:35	09/24/04 15:50
MW-5	4124017-05	Water	09/23/04 13:00	09/24/04 15:50

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

**Organics by GC
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I24017-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.3 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.5 %	80-120		"	"	"	"	
MW-2 (4I24017-02) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/01/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.6 %	80-120		"	"	"	"	
MW-3 (4I24017-03) Water									
Benzene	0.00113	0.00100	mg/L	1	EJ40413	09/30/04	10/01/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.3 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.5 %	80-120		"	"	"	"	
MW-4 (4I24017-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.1 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4I24017-05) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		87.2 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.4 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

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Page 3 of 12

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 10/04/04 18:51

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I24017-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI42806	09/24/04	09/24/04	EPA 310.2M	
Bicarbonate Alkalinity	174	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	106	5.00	"	"	EI42801	09/28/04	09/28/04	EPA 325.3M	
Total Dissolved Solids	749	5.00	"	"	EJ40417	09/29/04	09/30/04	EPA 160.1	
Sulfate	175	1.25	"	2.5	EI42706	09/27/04	09/27/04	EPA 375.4	
MW-2 (4I24017-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI42806	09/24/04	09/24/04	EPA 310.2M	
Bicarbonate Alkalinity	130	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	1130	5.00	"	"	EI42801	09/28/04	09/28/04	EPA 325.3M	
Total Dissolved Solids	3760	5.00	"	"	EJ40417	09/29/04	09/30/04	EPA 160.1	
Sulfate	198	2.50	"	5	EI42706	09/27/04	09/27/04	EPA 375.4	
MW-3 (4I24017-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI42806	09/24/04	09/24/04	EPA 310.2M	
Bicarbonate Alkalinity	153	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	115	5.00	"	"	EI42801	09/28/04	09/28/04	EPA 325.3M	
Total Dissolved Solids	703	5.00	"	"	EJ40417	09/29/04	09/30/04	EPA 160.1	
Sulfate	242	2.50	"	5	EI42706	09/27/04	09/27/04	EPA 375.4	
MW-4 (4I24017-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI42806	09/24/04	09/24/04	EPA 310.2M	
Bicarbonate Alkalinity	162	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	53.2	5.00	"	"	EI42801	09/28/04	09/28/04	EPA 325.3M	
Total Dissolved Solids	648	5.00	"	"	EJ40417	09/29/04	09/30/04	EPA 160.1	
Sulfate	180	1.25	"	2.5	EI42706	09/27/04	09/27/04	EPA 375.4	

Environmental Lab of Texas

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Page 4 of 12

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4124017-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	E142806	09/24/04	09/24/04	EPA 310.2M	
Bicarbonate Alkalinity	146	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	160	5.00	"	"	E142801	09/28/04	09/28/04	EPA 325.3M	
Total Dissolved Solids	792	5.00	"	"	EJ40417	09/29/04	09/30/04	EPA 160.1	
Sulfate	224	2.50	"	5	E142706	09/27/04	09/27/04	EPA 375.4	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I24017-01) Water									
Calcium	75.5	0.200	mg/L	20	EJ40408	09/30/04	09/30/04	EPA 6010B	
Magnesium	31.8	0.0100	"	10	"	"	"	"	
Potassium	6.51	0.500	"	"	"	"	"	"	
Sodium	83.3	0.200	"	20	"	"	"	"	
MW-2 (4I24017-02) Water									
Calcium	336	1.00	mg/L	100	EJ40408	09/30/04	09/30/04	EPA 6010B	
Magnesium	168	0.100	"	"	"	"	"	"	
Potassium	14.9	0.500	"	10	"	"	"	"	
Sodium	174	1.00	"	100	"	"	"	"	
MW-3 (4I24017-03) Water									
Calcium	58.1	0.100	mg/L	10	EJ40408	09/30/04	09/30/04	EPA 6010B	
Magnesium	29.4	0.0100	"	"	"	"	"	"	
Potassium	6.26	0.500	"	"	"	"	"	"	
Sodium	104	1.00	"	100	"	"	"	"	
MW-4 (4I24017-04) Water									
Calcium	52.0	0.100	mg/L	10	EJ40408	09/30/04	09/30/04	EPA 6010B	
Magnesium	28.1	0.0100	"	"	"	"	"	"	
Potassium	6.66	0.500	"	"	"	"	"	"	
Sodium	86.3	0.200	"	20	"	"	"	"	
MW-5 (4I24017-05) Water									
Calcium	69.0	0.200	mg/L	20	EJ40408	09/30/04	09/30/04	EPA 6010B	
Magnesium	37.2	0.0100	"	10	"	"	"	"	
Potassium	7.16	0.500	"	"	"	"	"	"	
Sodium	85.7	0.200	"	20	"	"	"	"	

Environmental Lab of Texas

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Page 6 of 12

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

**Organics by GC - Quality Control
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EJ40413 - EPA 5030C (GC)

Blank (EJ40413-BLK1)

Prepared & Analyzed: 09/30/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	91.8		ug/l	100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	80.5		"	100		80.5	80-120			

LCS (EJ40413-BS1)

Prepared & Analyzed: 09/30/04

Benzene	101		ug/l	100		101	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	94.0		"	100		94.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			

Calibration Check (EJ40413-CCV1)

Prepared: 09/30/04 Analyzed: 10/04/04

Benzene	98.7		ug/l	100		98.7	80-120			
Toluene	90.4		"	100		90.4	80-120			
Ethylbenzene	82.8		"	100		82.8	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	86.6		"	100		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	111		"	100		111	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			

Matrix Spike (EJ40413-MS1)

Source: 4129005-04

Prepared: 09/30/04 Analyzed: 10/04/04

Benzene	89.7		ug/l	100	ND	89.7	80-120			
Toluene	90.5		"	100	ND	90.5	80-120			
Ethylbenzene	87.6		"	100	ND	87.6	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	95.7		"	100	ND	95.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

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Page 7 of 12

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EJ40413 - EPA 5030C (GC)

Matrix Spike Dup (EJ40413-MSD1)

Source: 4I29005-04

Prepared: 09/30/04

Analyzed: 10/04/04

Benzene	89.7		ug/l	100	ND	89.7	80-120	0.00	20	
Toluene	90.5		"	100	ND	90.5	80-120	0.00	20	
Ethylbenzene	87.6		"	100	ND	87.6	80-120	0.00	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	0.00	20	
Xylene (o)	95.7		"	100	ND	95.7	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

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Page 8 of 12

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
10/04/04 18:51

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EI42706 - General Preparation (WetChem)

Blank (EI42706-BLK1)

Prepared & Analyzed: 09/27/04

Sulfate ND 0.500 mg/L

Calibration Check (EI42706-CCV1)

Prepared & Analyzed: 09/27/04

Sulfate 48.8 mg/L 50.0 97.6 80-120

Duplicate (EI42706-DUP1)

Source: 4I24017-01

Prepared & Analyzed: 09/27/04

Sulfate 172 1.25 mg/L 175 1.73 20

Batch EI42801 - General Preparation (WetChem)

Blank (EI42801-BLK1)

Prepared & Analyzed: 09/28/04

Chloride ND 5.00 mg/L

Matrix Spike (EI42801-MS1)

Source: 4I24017-01

Prepared & Analyzed: 09/28/04

Chloride 354 5.00 mg/L 250 106 99.2 90-110

Matrix Spike Dup (EI42801-MSD1)

Source: 4I24017-01

Prepared & Analyzed: 09/28/04

Chloride 359 5.00 mg/L 250 106 101 90-110 1.40 20

Reference (EI42801-SRM1)

Prepared & Analyzed: 09/28/04

Chloride 4960 mg/L 5000 99.2 80-120

Batch EI42806 - General Preparation (WetChem)

Blank (EI42806-BLK1)

Prepared & Analyzed: 09/24/04

Carbonate Alkalinity ND 0.100 mg/L

Bicarbonate Alkalinity ND 2.00 "

Hydroxide Alkalinity ND 0.100 "

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 10/04/04 18:51

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EI42806 - General Preparation (WetChem)

Duplicate (EI42806-DUP1)		Source: 4I24017-01			Prepared & Analyzed: 09/24/04					
Carbonate Alkalinity	0.00	0.100	mg/L		0.00					20
Bicarbonate Alkalinity	173	2.00	"		174			0.576		20
Hydroxide Alkalinity	0.00	0.100	"		0.00					20

Reference (EI42806-SRM1)		Prepared & Analyzed: 09/24/04								
Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			

Batch EJ40417 - Filtration Preparation

Blank (EJ40417-BLK1)		Prepared: 09/29/04 Analyzed: 09/30/04								
Total Dissolved Solids	ND	5.00	mg/L							

Duplicate (EJ40417-DUP1)		Source: 4I24017-01			Prepared: 09/29/04 Analyzed: 09/30/04					
Total Dissolved Solids	675	5.00	mg/L		749			10.4		20

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 10/04/04 18:51

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EJ40408 - 6010B/No Digestion

Blank (EJ40408-BLK1)

Prepared & Analyzed: 09/30/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EJ40408-CCV1)

Prepared & Analyzed: 09/30/04

Calcium	2.08		mg/L	2.00		104	85-115			
Magnesium	2.17		"	2.00		108	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.79		"	2.00		89.5	85-115			

Duplicate (EJ40408-DUP1)

Source: 4I21005-01

Prepared & Analyzed: 09/30/04

Calcium	31.3	0.100	mg/L		35.6			12.9	20	
Magnesium	11.8	0.0100	"		13.6			14.2	20	
Potassium	13.5	0.500	"		15.7			15.1	20	
Sodium	117	1.00	"		114			2.60	20	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis SWD Well H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/04/04 18:51

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 10-04-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Highlander Env.

Date/Time: 09-24-04 @ 1620

Order #: 4 I 24017

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	2.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: **RICE**

SITE MANAGER: **Ike Tavaraz**

PROJECT NO.: **1863**
PROJECT NAME: **Rice / Justis SWD well #H-2**

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	PRESERVATIVE METHOD				
							HCL	HNO3	ICE	NONE	
-01	9/23/04	11:25	W			MW-1	X		X		
-02	9/23/04	11:55	W			MW-2	X		X		
-03	9/23/04	10:30	W			MW-3	X		X		
-04	9/23/04	12:35	W			MW-4	X		X		
-05	9/23/04	1:00	W			MW-5	X		X		

NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD			
		HCL	HNO3	ICE	NONE
3	N	X		X	
3	N	X		X	
3	N	X		X	
3	N	X		X	
3	N	X		X	

PAGE: / OF: /
ANALYSIS REQUEST
(Circle or Specify Method No.)

PCMS Vol 8240/8280/824	PCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PbM (Asbestos)		
TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)
TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride
PAH 8270	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride
TPH 4181 8015 MOD. TK006	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride
MTR 8020/808	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride
PTX 8020/808	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	RCI	GCMS Vol 8240/8280/824	GCMS Sampl Vol 8270/825	PCB# 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride

RELINQUISHED BY (Signature) _____ Date: _____ Time: _____ RECEIVED BY (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY (Signature) _____ Date: _____ Time: _____ RECEIVED BY (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY (Signature) _____ Date: _____ Time: _____ RECEIVED BY (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: **ENVIRONMENTAL** / **1863** / **1863** DATE: **9-24-4** TIME: **1551**

ADDRESS: _____ STATE: **TX** ZIP: _____

CITY: **ODessa** PHONE: _____

SAMPLE CONDITION WHEN RECEIVED: **2.5C**

MATRIX: S-Soil A-Air SD-Solid

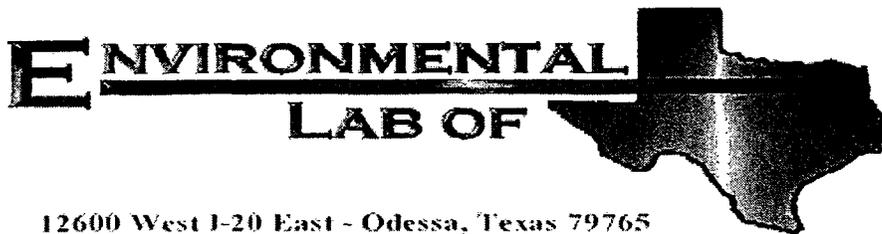
REMARKS: **(1) HDPE unpressure (2) 40mL glass w/HCl each on ice**

HIGHLANDER CONTACT PERSON: **Ike Tavaraz**

FEDERAL AIRBILL # _____ OTHER: _____

RECEIVED BY (Signature) _____ Date: _____ Time: _____

Lab Report: 1/03/05



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ Justis H-2

Project Number: 1863

Location: Lea County, NM

Lab Order Number: 4L22020

Report Date: 01/03/05

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/03/05 17:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L22020-01	Water	12/21/04 12:40	12/22/04 15:13
MW-2	4L22020-02	Water	12/21/04 14:25	12/22/04 15:13
MW-3	4L22020-03	Water	12/21/04 11:40	12/22/04 15:13
MW-4	4L22020-04	Water	12/21/04 13:50	12/22/04 15:13
MW-5	4L22020-05	Water	12/21/04 13:20	12/22/04 15:13

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis H-2
Project Number: 1863
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
01/03/05 17:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22020-01) Water									
Benzene	ND	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00108	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.5 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.1 %		80-120	"	"	"	"	
MW-2 (4L22020-02) Water									
Benzene	0.00550	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.0 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		80-120	"	"	"	"	
MW-3 (4L22020-03) Water									
Benzene	0.0127	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00144	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %		80-120	"	"	"	"	
MW-4 (4L22020-04) Water									
Benzene	0.00275	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.8 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %		80-120	"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis H-2
 Project Number: 1863
 Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4L22020-05) Water									
Benzene	0.00292	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		97.5 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		80-120	"	"	"	"	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/03/05 17:54

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22020-01) Water									
Total Alkalinity	172	2.00	mg/L	1	EL42911	12/29/04	12/29/04	EPA 310.2M	
Chloride	93.1	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	3450	5.00	mg/kg	"	EL42801	12/27/04	12/28/04	EPA 160.1	
Sulfate	215	2.50	mg/L	5	EL42909	12/29/04	12/29/04	EPA 375.4	
MW-2 (4L22020-02) Water									
Total Alkalinity	136	2.00	mg/L	1	EL42911	12/29/04	12/29/04	EPA 310.2M	
Chloride	1150	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	5630	5.00	mg/kg	"	EL42801	12/27/04	12/28/04	EPA 160.1	
Sulfate	210	2.50	mg/L	5	EL42909	12/29/04	12/29/04	EPA 375.4	
MW-3 (4L22020-03) Water									
Total Alkalinity	154	2.00	mg/L	1	EL42911	12/29/04	12/29/04	EPA 310.2M	
Chloride	154	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	3470	5.00	mg/kg	"	EL42801	12/27/04	12/28/04	EPA 160.1	
Sulfate	272	2.50	mg/L	5	EL42909	12/29/04	12/29/04	EPA 375.4	
MW-4 (4L22020-04) Water									
Total Alkalinity	167	2.00	mg/L	1	EL42911	12/29/04	12/29/04	EPA 310.2M	
Chloride	59.1	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	3300	5.00	mg/kg	"	EL42801	12/27/04	12/28/04	EPA 160.1	
Sulfate	210	2.50	mg/L	5	EL42909	12/29/04	12/29/04	EPA 375.4	
MW-5 (4L22020-05) Water									
Total Alkalinity	148	2.00	mg/L	1	EL42911	12/29/04	12/29/04	EPA 310.2M	
Chloride	165	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	3470	5.00	mg/kg	"	EL42801	12/27/04	12/28/04	EPA 160.1	
Sulfate	224	2.50	mg/L	5	EL42909	12/29/04	12/29/04	EPA 375.4	

Environmental Lab of Texas

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Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

**Total Metals by EPA / Standard Methods
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22020-01) Water									
Calcium	187	1.00	mg/L	100	EA50301	12/29/04	12/30/04	EPA 6010B	
Magnesium	56.6	0.100	"	"	"	"	"	"	
Potassium	7.90	0.500	"	10	"	"	"	"	
Sodium	126	1.00	"	100	"	"	"	"	
MW-2 (4L22020-02) Water									
Calcium	741	1.00	mg/L	100	EA50301	12/29/04	12/30/04	EPA 6010B	
Magnesium	309	0.100	"	"	"	"	"	"	
Potassium	18.3	0.500	"	10	"	"	"	"	
Sodium	313	1.00	"	100	"	"	"	"	
MW-3 (4L22020-03) Water									
Calcium	207	1.00	mg/L	100	EA50301	12/29/04	12/30/04	EPA 6010B	
Magnesium	65.5	0.100	"	"	"	"	"	"	
Potassium	10.6	0.500	"	10	"	"	"	"	
Sodium	194	1.00	"	100	"	"	"	"	
MW-4 (4L22020-04) Water									
Calcium	195	1.00	mg/L	100	EA50301	12/29/04	12/30/04	EPA 6010B	
Magnesium	60.5	0.100	"	"	"	"	"	"	
Potassium	8.74	0.500	"	10	"	"	"	"	
Sodium	165	1.00	"	100	"	"	"	"	
MW-5 (4L22020-05) Water									
Calcium	251	1.00	mg/L	100	EA50301	12/29/04	12/30/04	EPA 6010B	
Magnesium	82.4	0.100	"	"	"	"	"	"	
Potassium	10.4	0.500	"	10	"	"	"	"	
Sodium	191	1.00	"	100	"	"	"	"	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/03/05 17:54

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL43007 - EPA 5030C (GC)

Blank (EL43007-BLK1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	90.9		ug/l	100		90.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.2		"	100		80.2	80-120			

LCS (EL43007-BS1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	88.5		"	100		88.5	80-120			
Ethylbenzene	97.5		"	100		97.5	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Calibration Check (EL43007-CCV1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.8		ug/l	100		87.8	80-120			
Toluene	89.0		"	100		89.0	80-120			
Ethylbenzene	95.3		"	100		95.3	80-120			
Xylene (p/m)	213		"	200		106	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Matrix Spike (EL43007-MS1)

Source: 4L22009-05

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	88.6		ug/l	100	ND	88.6	80-120			
Toluene	85.4		"	100	ND	85.4	80-120			
Ethylbenzene	87.9		"	100	ND	87.9	80-120			
Xylene (p/m)	186		"	200	ND	93.0	80-120			
Xylene (o)	94.2		"	100	ND	94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

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Page 6 of 11

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EL43007 - EPA 5030C (GC)

Matrix Spike Dup (EL43007-MSD1)

Source: 4L22009-05

Prepared: 12/29/04

Analyzed: 12/30/04

Benzene	92.9		ug/l	100	ND	92.9	80-120	4.74	20	
Toluene	86.0		"	100	ND	86.0	80-120	0.700	20	
Ethylbenzene	87.2		"	100	ND	87.2	80-120	0.800	20	
Xylene (p/m)	164		"	200	ND	82.0	80-120	12.6	20	
Xylene (o)	86.7		"	100	ND	86.7	80-120	8.29	20	
Surrogate: a,a,a-Trifluorotoluene	112		"	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EL42801 - 413.1

Blank (EL42801-BLK1)

Prepared: 12/27/04 Analyzed: 12/28/04

Total Dissolved Solids ND 5.00 mg/kg

Duplicate (EL42801-DUP1)

Source: 4L22019-01

Prepared: 12/27/04 Analyzed: 12/28/04

Total Dissolved Solids 2480 5.00 mg/kg 2620 5.49 20

Batch EL42908 - General Preparation (WetChem)

Blank (EL42908-BLK1)

Prepared & Analyzed: 12/29/04

Chloride ND 5.00 mg/L

Matrix Spike (EL42908-MS1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Chloride 390 5.00 mg/L 250 155 94.0 80-120

Matrix Spike Dup (EL42908-MSD1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Chloride 394 5.00 mg/L 250 155 95.6 80-120 1.02 20

Reference (EL42908-SRM1)

Prepared & Analyzed: 12/29/04

Chloride 4960 mg/L 5000 99.2 80-120

Batch EL42909 - General Preparation (WetChem)

Blank (EL42909-BLK1)

Prepared & Analyzed: 12/29/04

Sulfate ND 0.500 mg/L

Calibration Check (EL42909-CCV1)

Prepared & Analyzed: 12/29/04

Sulfate 48.9 mg/L 50.0 97.8 80-120

Highlander Environmental Corp.
 1910 N. Big Spring St.
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Project: Rice/ Justis H-2
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 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EL42909 - General Preparation (WetChem)

Duplicate (EL42909-DUP1) Source: 4L21010-01 Prepared & Analyzed: 12/29/04

Sulfate	96.6	1.00	mg/L		99.8			3.26	20	
---------	------	------	------	--	------	--	--	------	----	--

Batch EL42911 - General Preparation (WetChem)

Blank (EL42911-BLK1) Prepared & Analyzed: 12/29/04

Total Alkalinity	ND	2.00	mg/L							
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Duplicate (EL42911-DUP1) Source: 4L22020-01 Prepared & Analyzed: 12/29/04

Total Alkalinity	173	2.00	mg/L		172			0.580	20	
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Reference (EL42911-SRM1) Prepared & Analyzed: 12/29/04

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
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Highlander Environmental Corp.
 1910 N. Big Spring St.
 Midland TX, 79705

Project: Rice/ Justis H-2
 Project Number: 1863
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/03/05 17:54

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA50301 - 6010B/No Digestion

Blank (EA50301-BLK1)

Prepared: 12/29/04 Analyzed: 12/30/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EA50301-CCV1)

Prepared: 12/29/04 Analyzed: 12/30/04

Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	2.05		"	2.00		102	85-115			
Sodium	1.86		"	2.00		93.0	85-115			

Duplicate (EA50301-DUP1)

Source: 4L22019-01

Prepared: 12/29/04 Analyzed: 12/30/04

Calcium	496	1.00	mg/L		381			26.2	20	QR-02
Magnesium	168	0.100	"		143			16.1	20	
Potassium	17.1	0.500	"		14.4			17.1	20	
Sodium	555	1.00	"		477			15.1	20	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ Justis H-2
Project Number: 1863
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/03/05 17:54

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

1/3/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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**Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In**

Client: Highlander Enviro
 Date/Time: 12/22/04 15:15
 Order #: 4622020
 Initials: JLH

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	-0.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:

Sample 4122020-01

TempC = 0.0 pH = 0.0
 TDS = 3450.0 COND = 0.0
 HARD = 0.0 DENS = 0.0
 x-cor = 0.0 y-cor = 0.0
 Units = mg/L rock = 0.0

	mg/L	mmole/L	meq/L	% meq/L
Na+	126.0	5.4804	5.4804	27.9
K +	7.9	0.2020	0.2020	1.0
Ca++	187.0	4.6657	9.3313	47.4
Mg++	56.6	2.3281	4.6561	23.7
Cl-	93.1	2.6260	2.6260	26.5
SO4--	215.0	2.2382	4.4764	45.1
HCO3-	172.0	2.8189	2.8189	28.4
CO3--	0.0	0.0000	0.0000	0.0
SiO2	0.0	0.0000	0.0000	0.0
Li+	0.0	0.0000	0.0000	0.0
Sr++	0.0	0.0000	0.0000	0.0
Ba++	0.0	0.0000	0.0000	0.0
Fe++	0.0	0.0000	0.0000	0.0
NO3-	0.0	0.0000	0.0000	0.0
F-	0.0	0.0000	0.0000	0.0
Br-	0.0	0.0000	0.0000	0.0
B	0.0	0.0000	0.0000	0.0

LANGELIER INDEX 0.00 IONIC STRENGTH= 0.0240

Analytical checks and comparisons

Sum cations = 19.6699 Sum anions = 9.9213
 BALANCE = 32.94 %

TDS entered = 3450 mg/L
 TDS calc = 858 mg/L TDS(180) calc = 770 mg/L
 Entered TDS - TDS(calc) diff= 75.1 % Entered TDS - TDS(180) diff= 77.7 %

Conductivity = 0 umho
 TDS(entered)/Cond ratio = 0.00 Usual range = 0.55 to 0.75
 TDS(calc)/Cond = 0.00 Usual range = 0.55 to 0.75
 Conductivity/Sum-cations = 0 Usual range = 90 - 110

Entered and calculated density
 Meas. Density = 0.0000 Calc. Density = 1.0008

Entered and calculated hardness
 Meas. hardness= 0.0 mg/L CaCO3 Calc. hardness= 700.0 mg/L CaCO3

Element ratios
 Na - Cl = 2.854 meq/L Usually positive
 Ca - SO4 = 4.855 meq/L Usually positive
 K/(Na + K) = 3.56 % Usually = 20%
 Mg/(Mg+Ca) = 33.29 % Usually = 40%

Carbonate/bicarbonate at pH = 0
 Meas HCO3 = 172.0 mg/L Meas CO3 = 0.0 mg/L
 Calc HCO3 = 0.0 mg/L Calc CO3 = 0.0 mg/L

Sample 4L22020-02

TempC = 0.0 pH = 0.0
 TDS = 0.0 COND = 0.0
 HARD = 0.0 DENS = 0.0
 x-cor = 0.0 y-cor = 0.0
 Units = mg/L rock = 0.0

	mg/L	mmole/L	meq/L	% meq/L
Na+	313.0	13.6140	13.6140	17.8
K +	18.3	0.4680	0.4680	0.6
Ca++	741.0	18.4880	36.9760	48.3
Mg++	309.0	12.7098	25.4195	33.2
Cl-	1150.0	32.4373	32.4373	83.1
SO4--	210.0	2.1861	4.3723	11.2
HCO3-	136.0	2.2289	2.2289	5.7
CO3--	0.0	0.0000	0.0000	0.0
SiO2	0.0	0.0000	0.0000	0.0
Li+	0.0	0.0000	0.0000	0.0
Sr++	0.0	0.0000	0.0000	0.0
Ba++	0.0	0.0000	0.0000	0.0
Fe++	0.0	0.0000	0.0000	0.0
NO3-	0.0	0.0000	0.0000	0.0
F-	0.0	0.0000	0.0000	0.0
Br-	0.0	0.0000	0.0000	0.0
B	0.0	0.0000	0.0000	0.0

LANGELIER INDEX 0.00 IONIC STRENGTH= 0.0911

Analytical checks and comparisons

Sum cations = 76.4776 Sum anions = 39.0385
 BALANCE = 32.41 %

TDS entered = 0 mg/L
 TDS calc = 2877 mg/L TDS(180) calc = 2808 mg/L
 Entered TDS - TDS(calc) diff= 0.0 % Entered TDS - TDS(180) diff= 0.0 %

Conductivity = 0 umho

TDS(entered)/Cond ratio = 0.00 Usual range = 0.55 to 0.75
 TDS(calc)/Cond = 0.00 Usual range = 0.55 to 0.75
 Conductivity/Sum-cations = 0 Usual range = 90 - 110

Entered and calculated density

Meas. Density = 0.0000 Calc. Density = 1.0028

Entered and calculated hardness

Meas. hardness= 0.0 mg/L CaCO3 Calc. hardness= 3122.5 mg/L CaCO3

Element ratios

Na - Cl = %-18.823 meq/L Usually positive
 Ca - SO4 = 32.604 meq/L Usually positive
 K/(Na + K) = 3.32 % Usually = 20%
 Mg/(Mg+Ca) = 40.74 % Usually = 40%

Carbonate/bicarbonate at pH = 0

Meas HCO3 = 136.0 mg/L Meas CO3 = 0.0 mg/L
 Calc HCO3 = 0.0 mg/L Calc CO3 = 0.0 mg/L

Sample 4L22020-05

TempC = 0.0 pH = 0.0
 TDS = 3470.0 COND = 0.0
 HARD = 0.0 DENS = 0.0
 x-cor = 0.0 y-cor = 0.0
 Units = mg/L rock = 0.0

	mg/L	mmole/L	meq/L	% meq/L
Na+	191.0	8.3076	8.3076	29.8
K +	10.4	0.2660	0.2660	1.0
Ca++	251.0	6.2625	12.5249	44.9
Mg++	82.4	3.3893	6.7785	24.3
Cl-	165.0	4.6540	4.6540	39.6
SO4--	224.0	2.3319	4.6638	39.7
HCO3-	148.0	2.4256	2.4256	20.7
CO3--	0.0	0.0000	0.0000	0.0
SiO2	0.0	0.0000	0.0000	0.0
Li+	0.0	0.0000	0.0000	0.0
Sr++	0.0	0.0000	0.0000	0.0
Ba++	0.0	0.0000	0.0000	0.0
Fe++	0.0	0.0000	0.0000	0.0
NO3-	0.0	0.0000	0.0000	0.0
F-	0.0	0.0000	0.0000	0.0
Br-	0.0	0.0000	0.0000	0.0
B	0.0	0.0000	0.0000	0.0

LANGELIER INDEX 0.00 IONIC STRENGTH= 0.0318

Analytical checks and comparisons

Sum cations = 27.8771 Sum anions = 11.7434
 BALANCE = 40.72 %

TDS entered = 3470 mg/L
 TDS calc = 1072 mg/L TDS(180) calc = 997 mg/L
 Entered TDS - TDS(calc) diff= 69.1 % Entered TDS - TDS(180) diff= 71.3 %

Conductivity = 0 umho
 TDS(entered)/Cond ratio = 0.00 Usual range = 0.55 to 0.75
 TDS(calc)/Cond = 0.00 Usual range = 0.55 to 0.75
 Conductivity/Sum-cations = 0 Usual range = 90 - 110

Entered and calculated density
 Meas. Density = 0.0000 Calc. Density = 1.0011

Entered and calculated hardness
 Meas. hardness= 0.0 mg/L CaCO3 Calc. hardness= 966.0 mg/L CaCO3

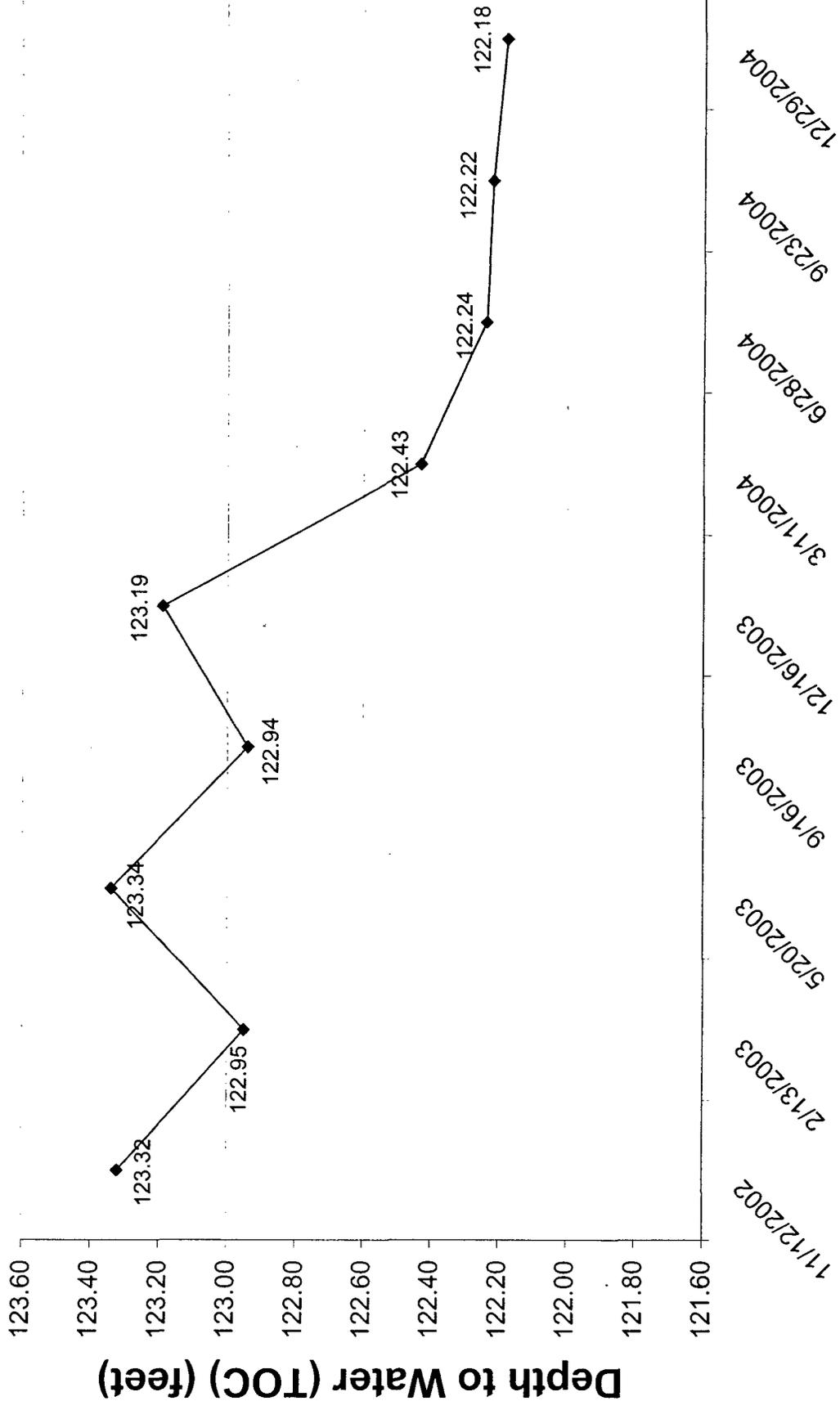
Element ratios
 Na - Cl = 3.654 meq/L Usually positive
 Ca - SO4 = 7.861 meq/L Usually positive
 K/(Na + K) = 3.10 % Usually = 20%
 Mg/(Mg+Ca) = 35.12 % Usually = 40%

Carbonate/bicarbonate at pH = 0
 Meas HCO3 = 148.0 mg/L Meas CO3 = 0.0 mg/L
 Calc HCO3 = 0.0 mg/L Calc CO3 = 0.0 mg/L

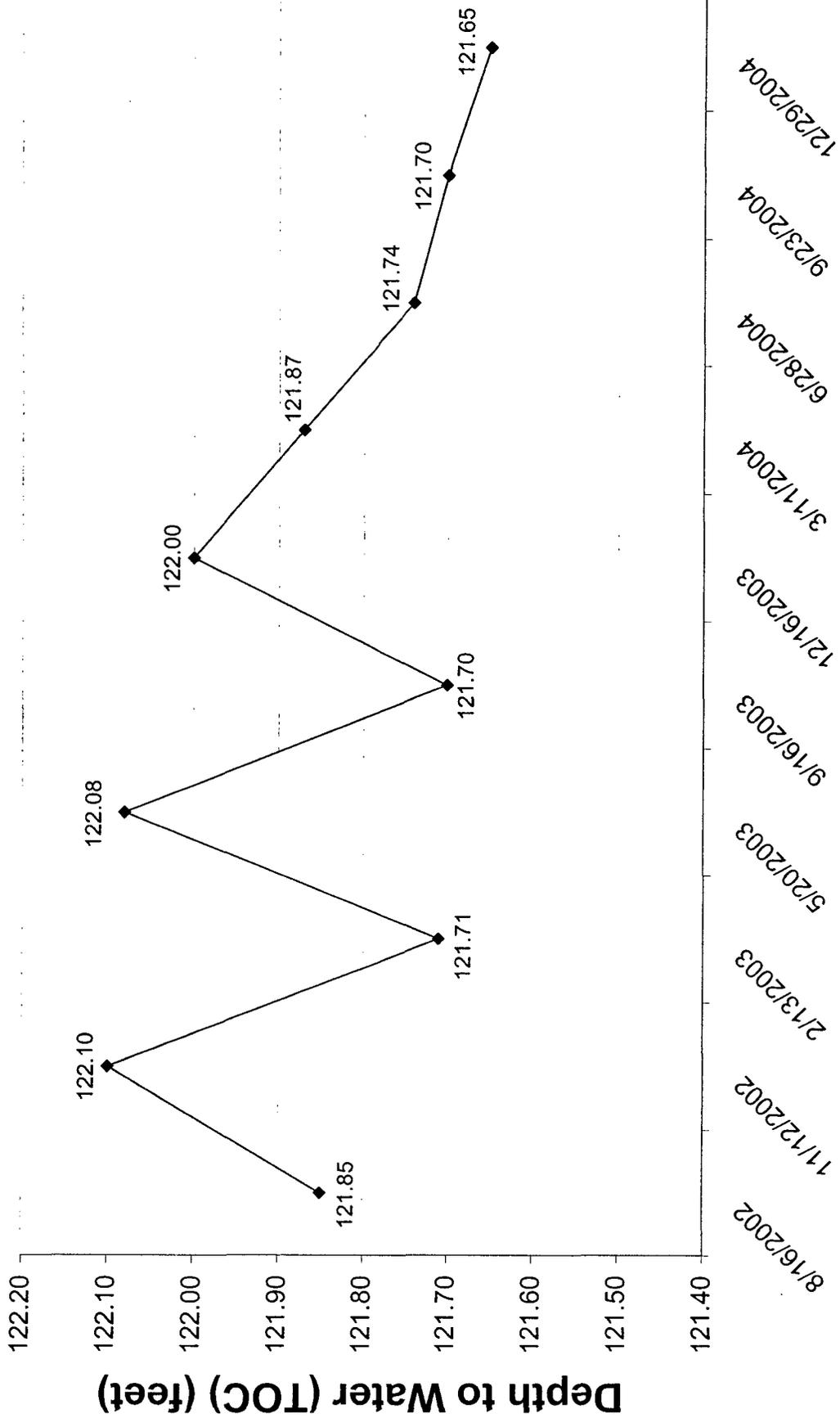
APPENDIX B

Hydrographs

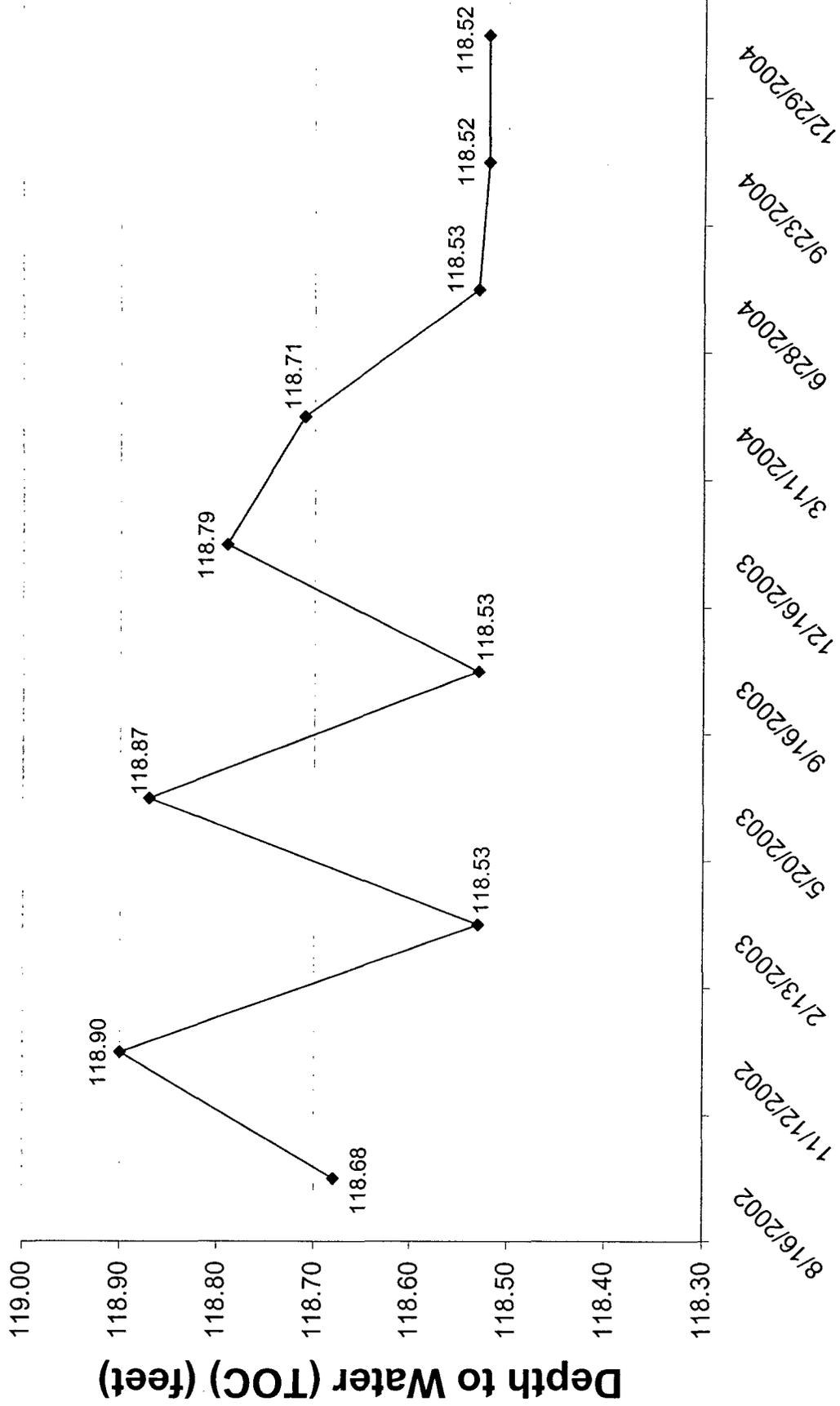
MW-1 Hydrograph



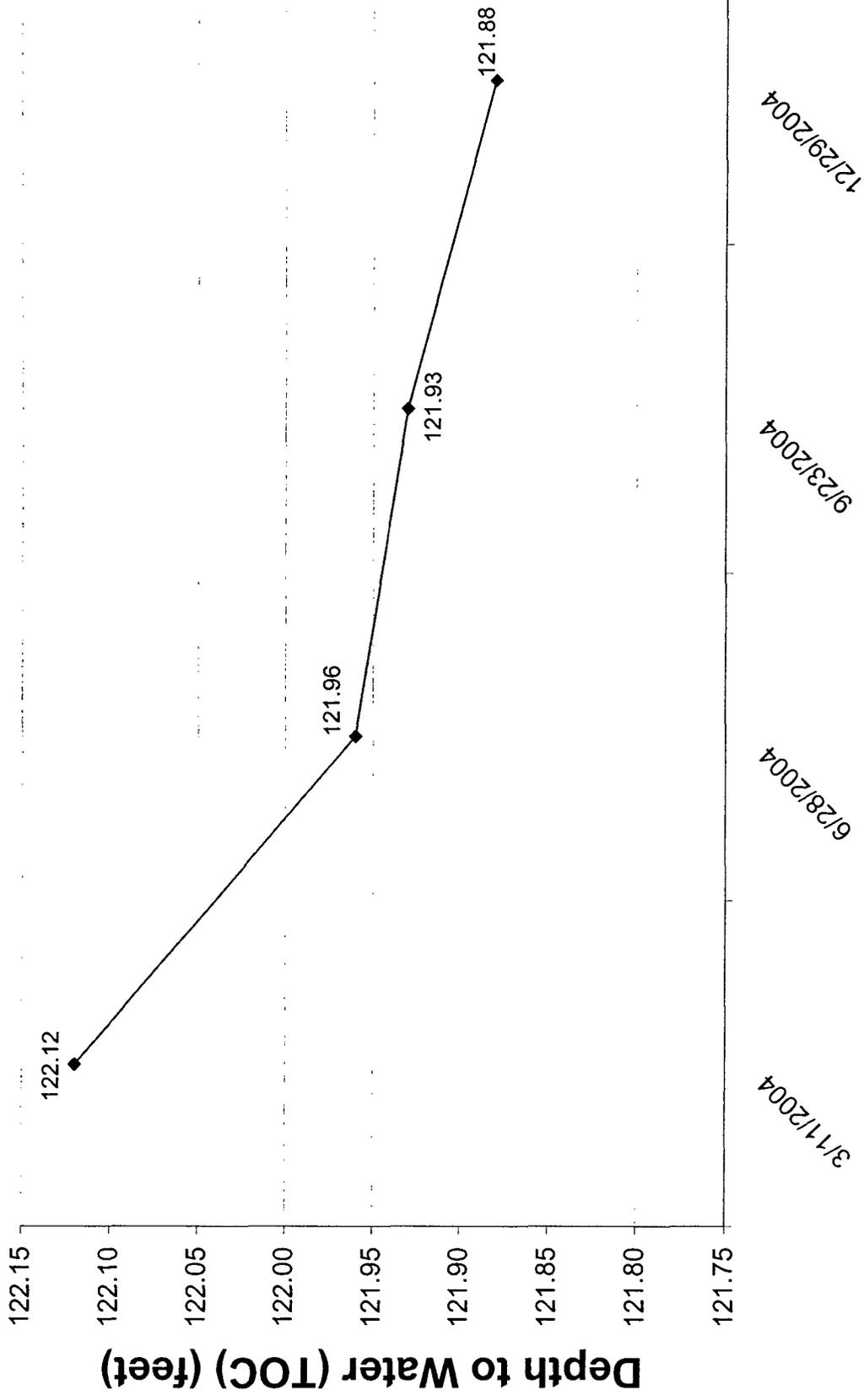
MW-2 Hydrograph



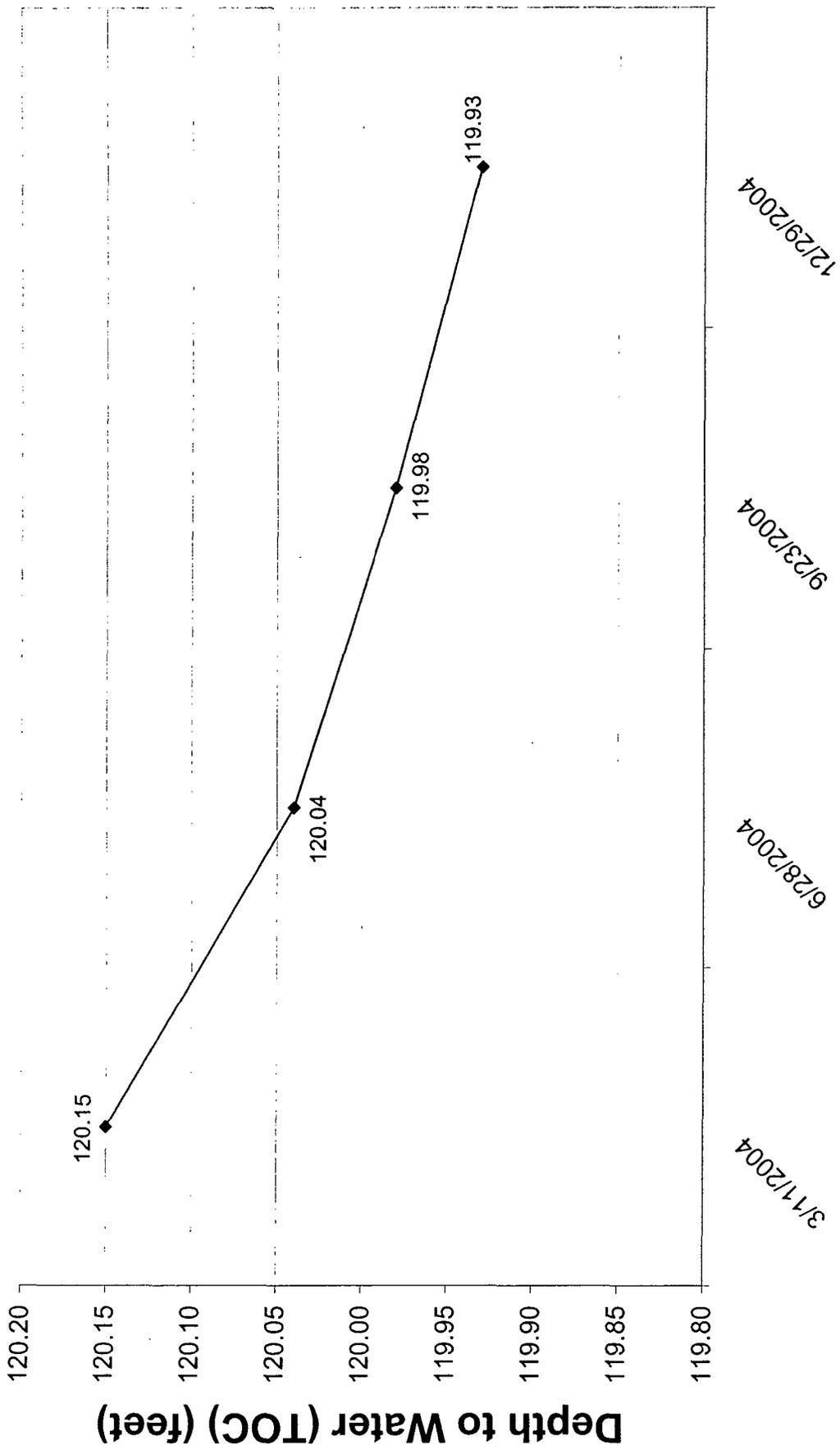
MW-3 Hydrograph



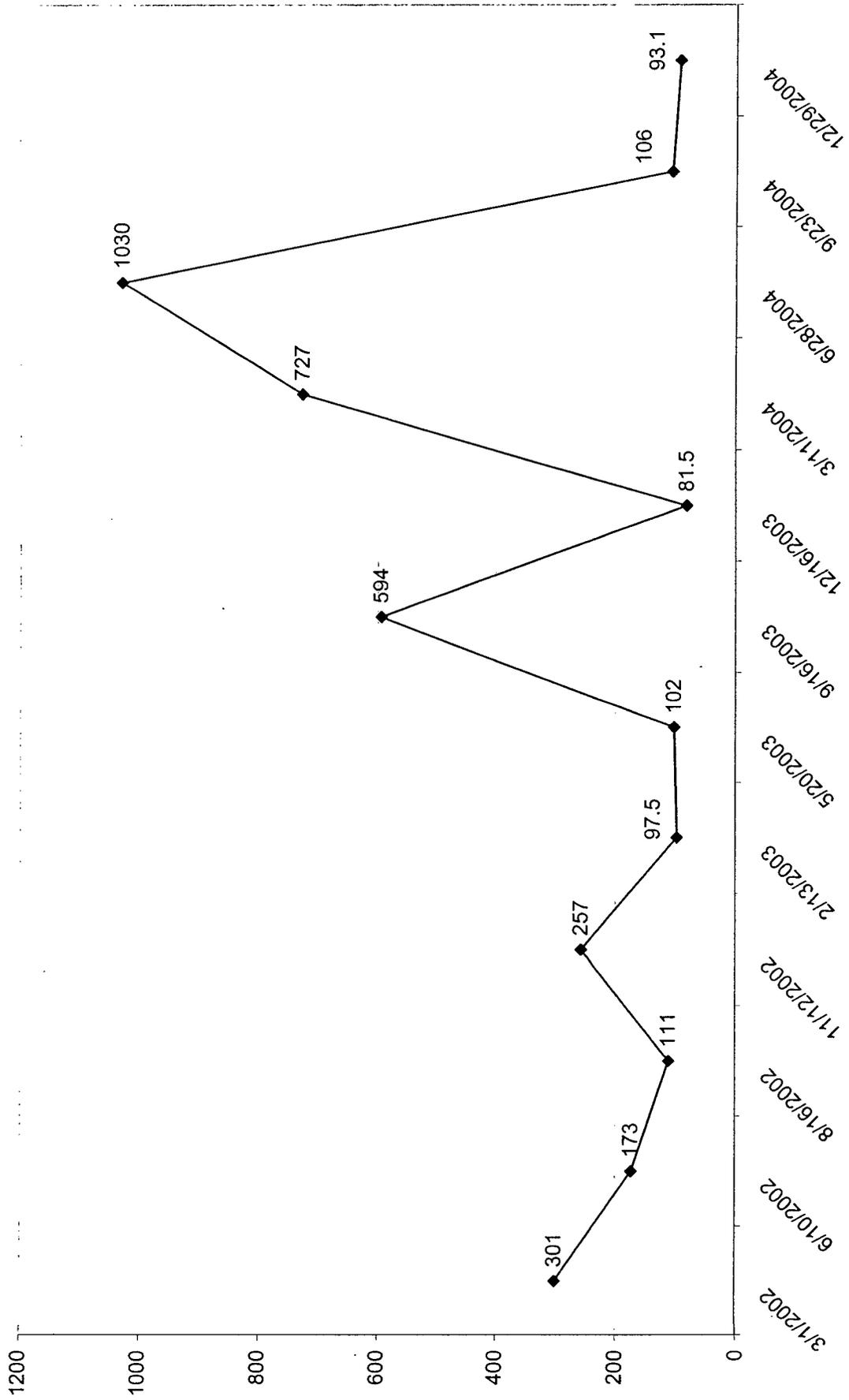
MW-4 Hydrograph



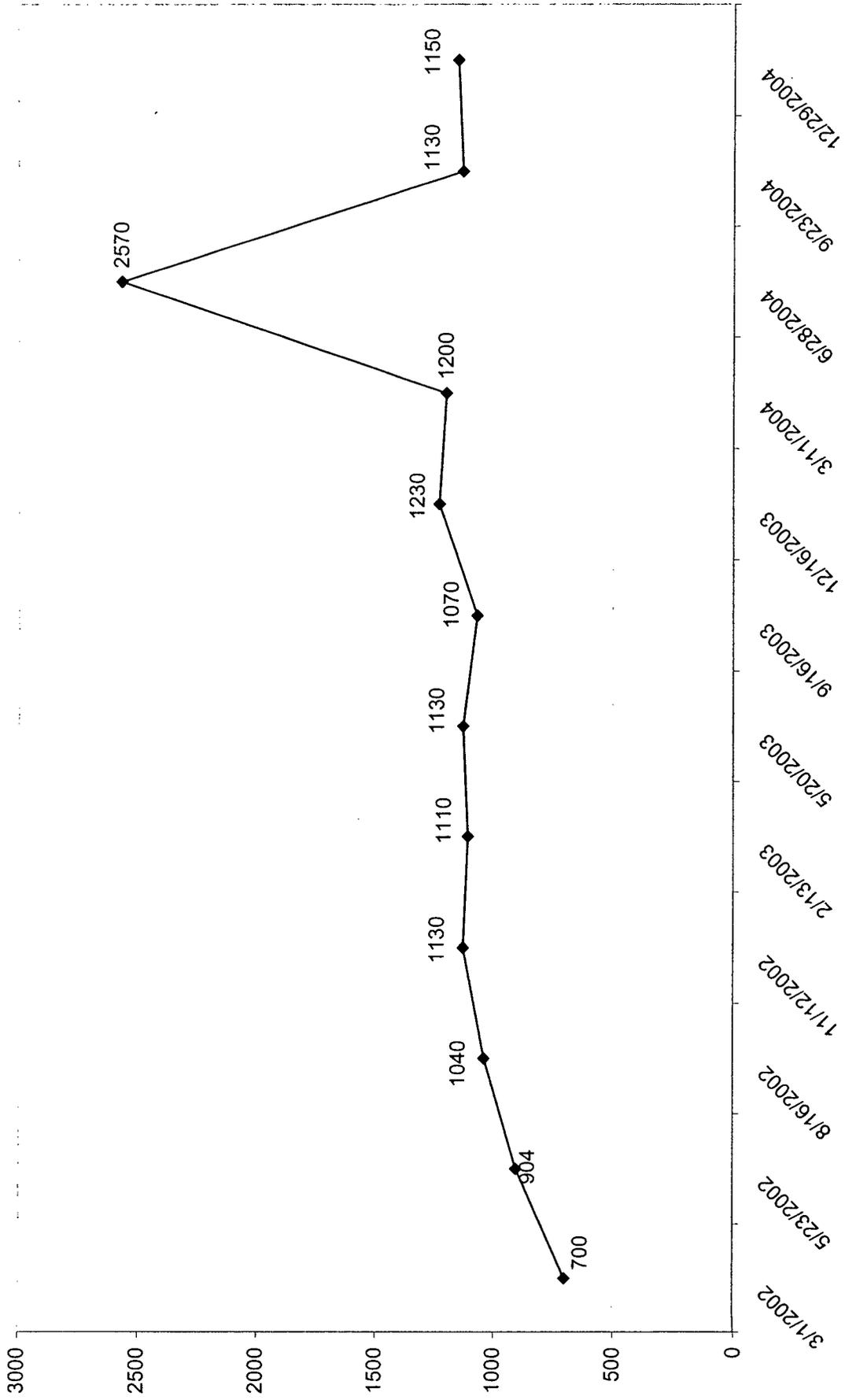
MW-5 Hydrograph



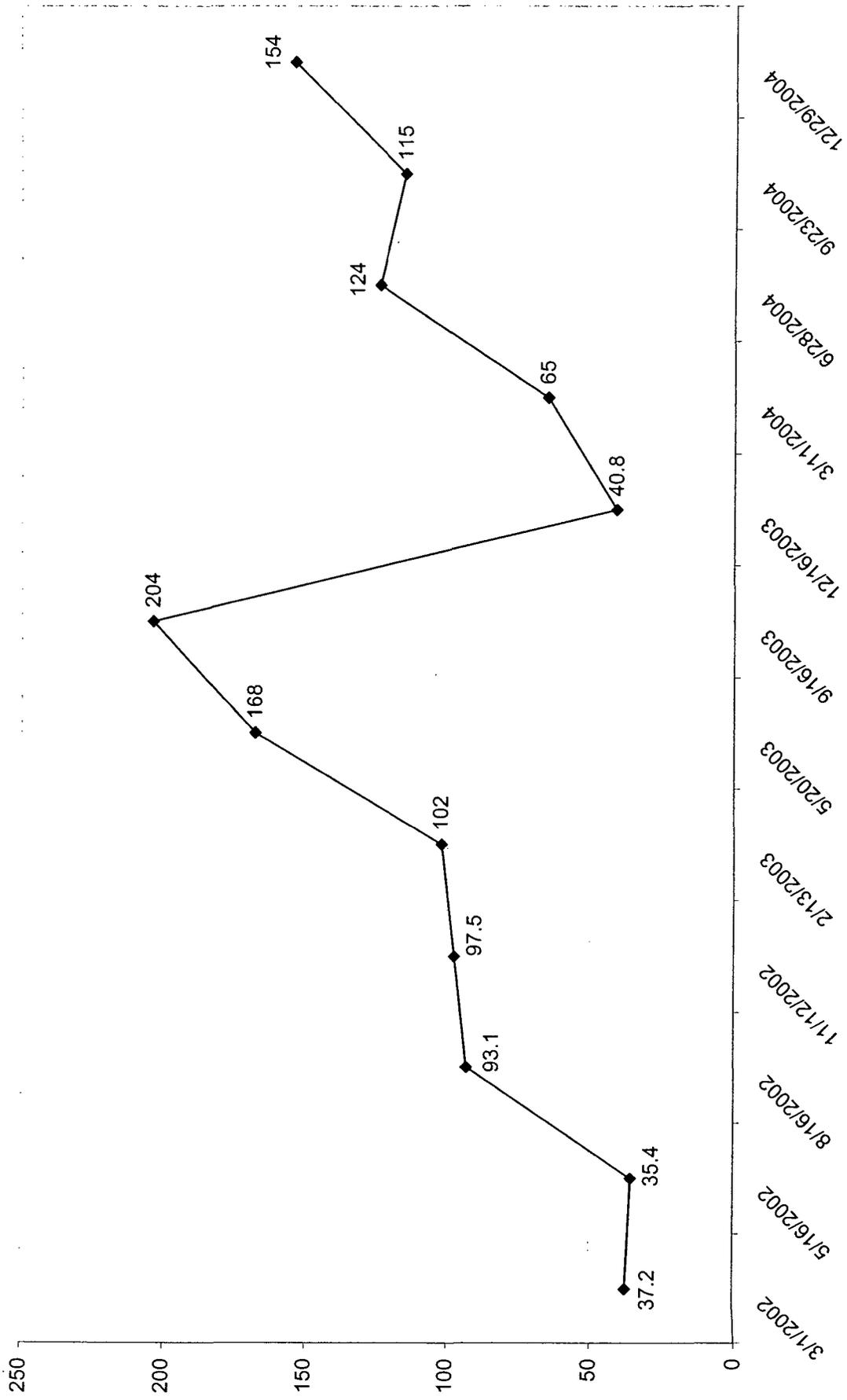
MW-1 Chlorides



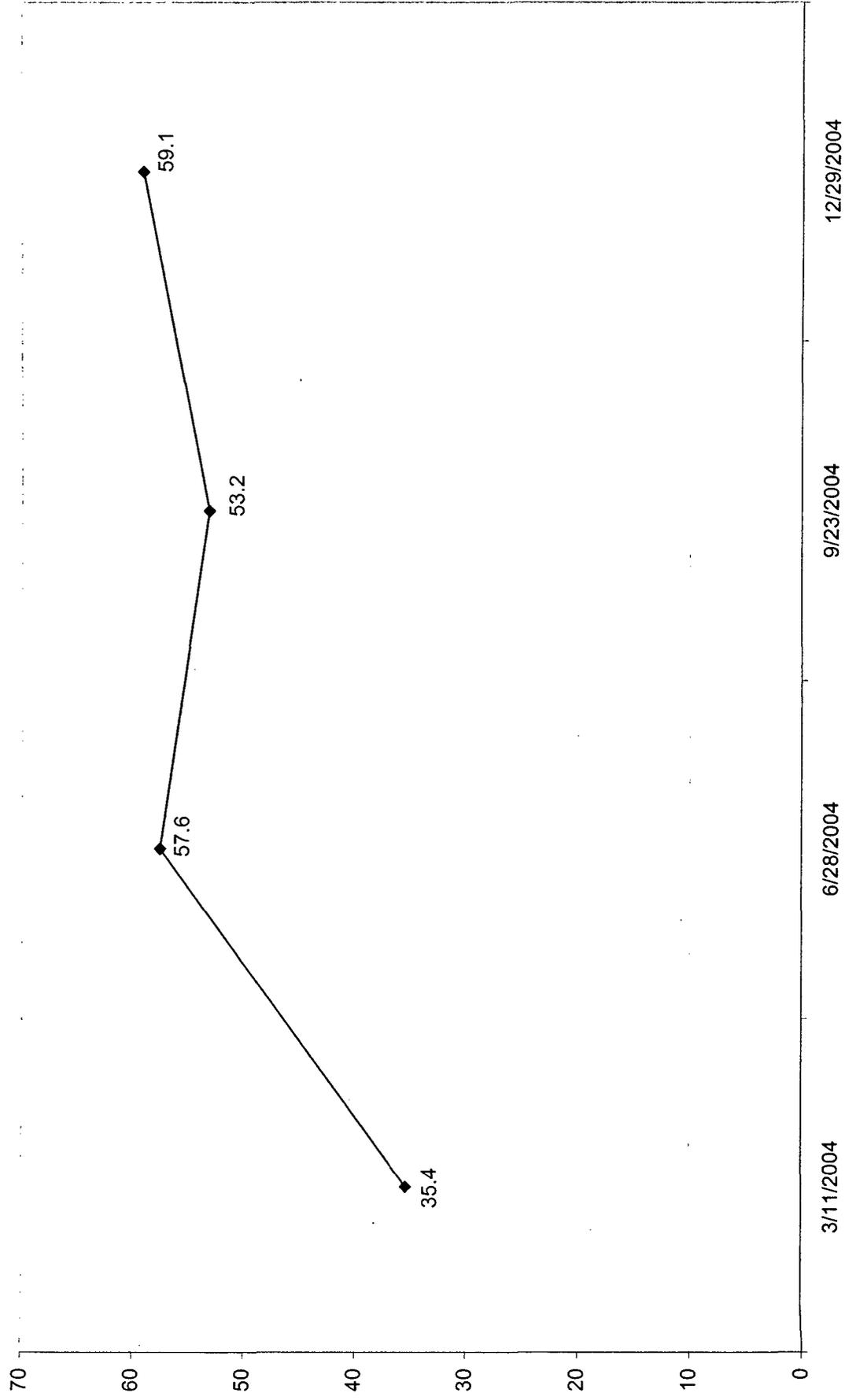
MW-2 Chlorides



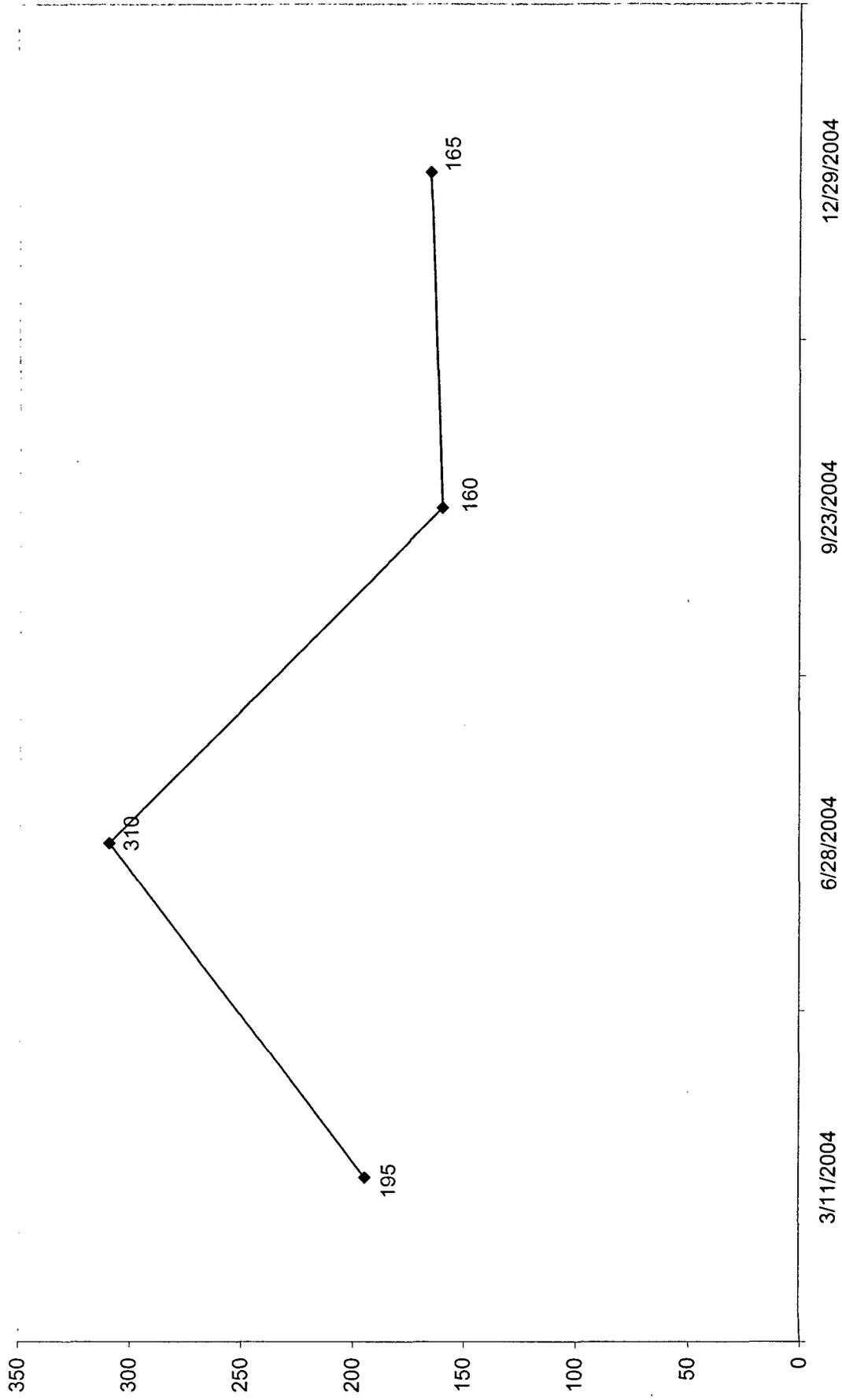
MW-3 Chlorides



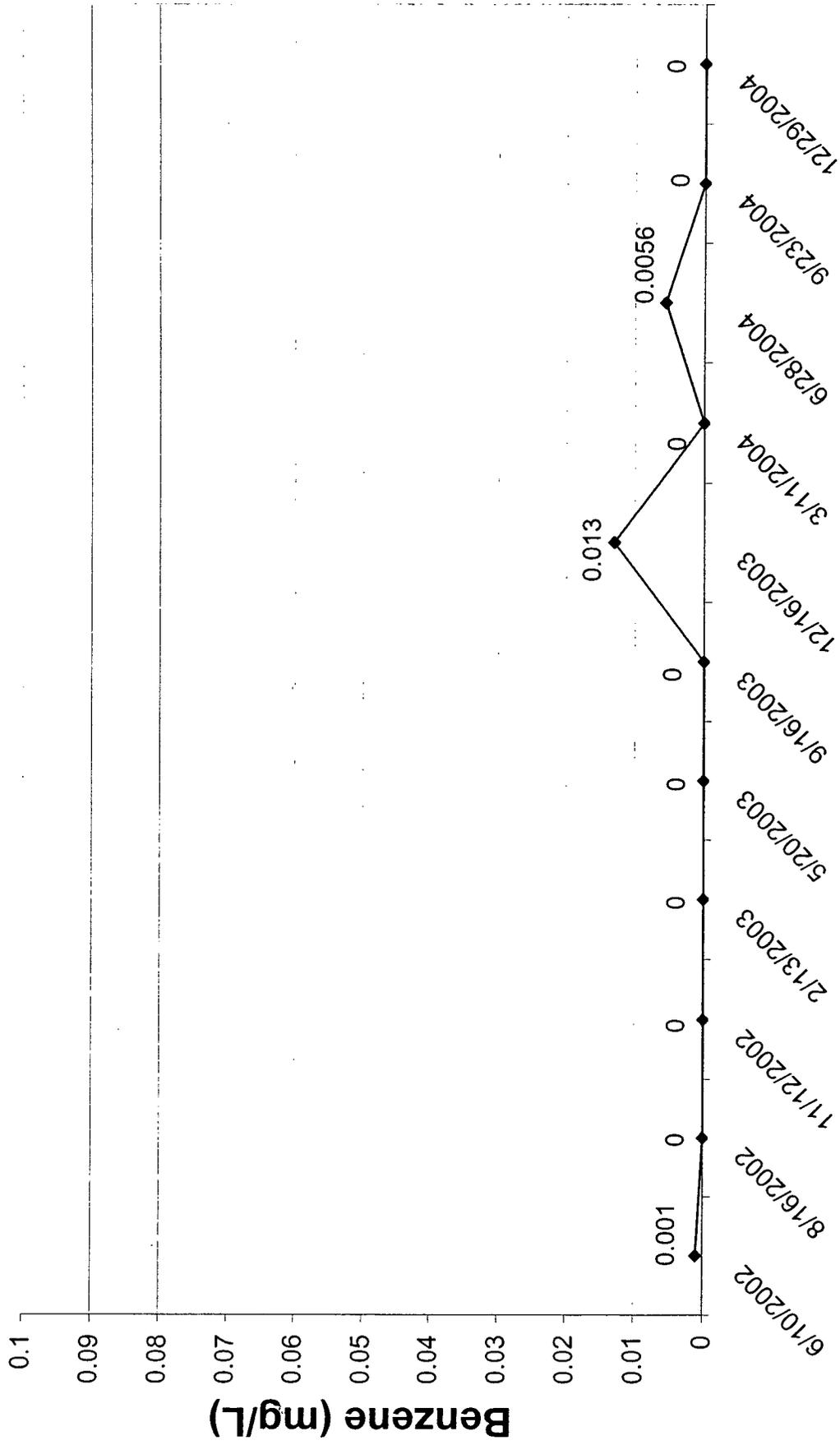
MW-4 Chlorides



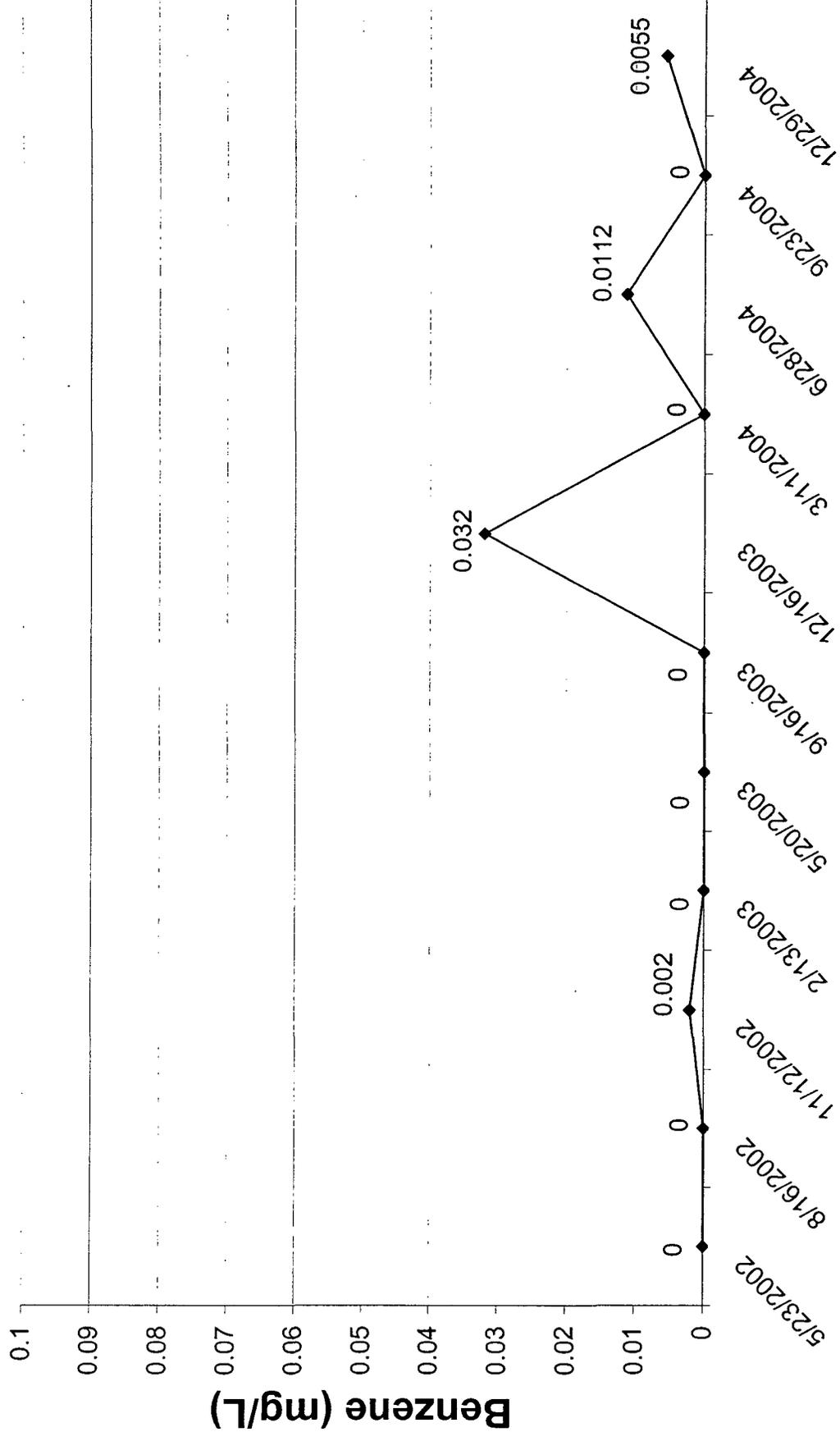
MW-5 Chlorides



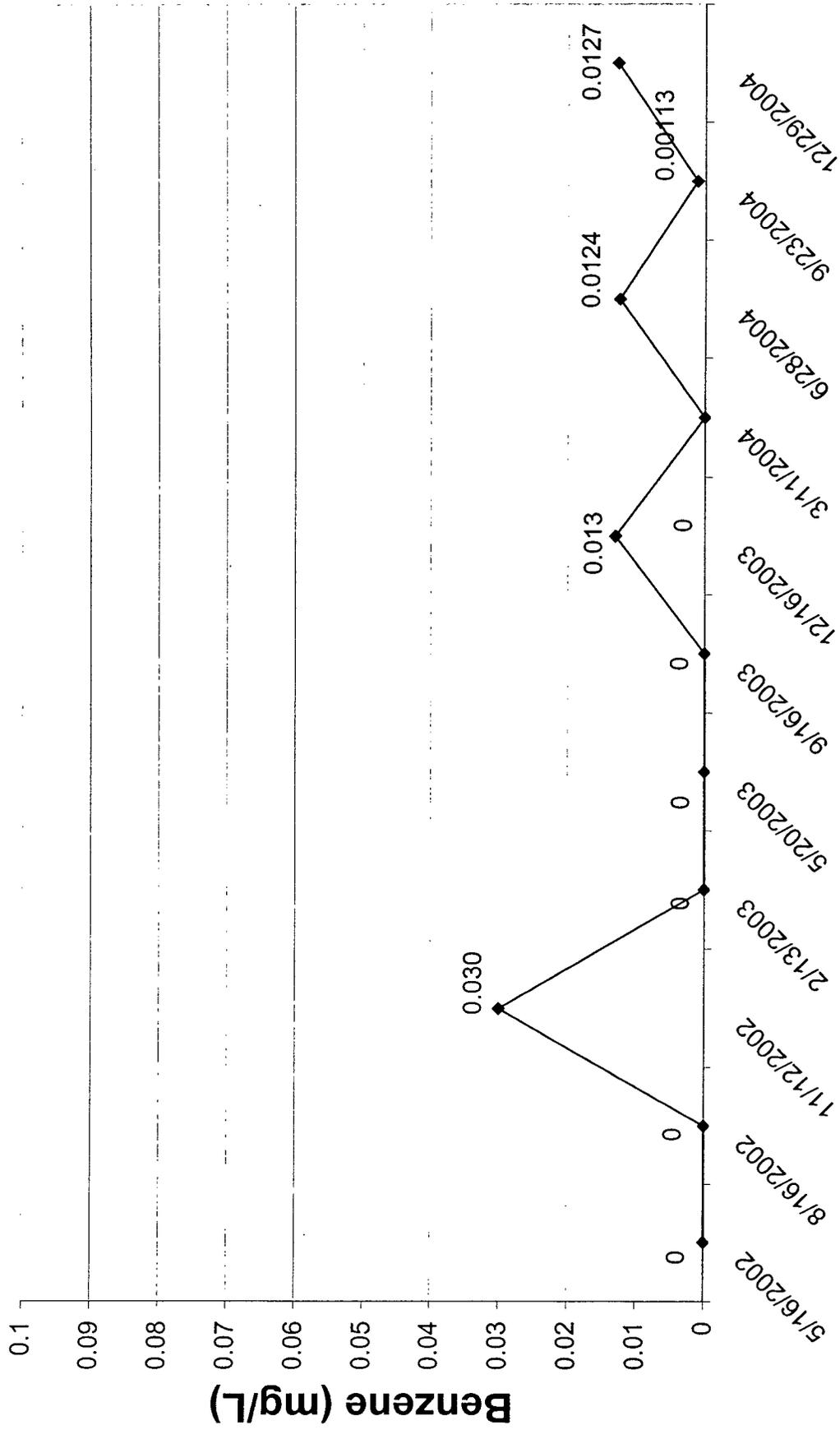
MW-1 Benzene Concentrations



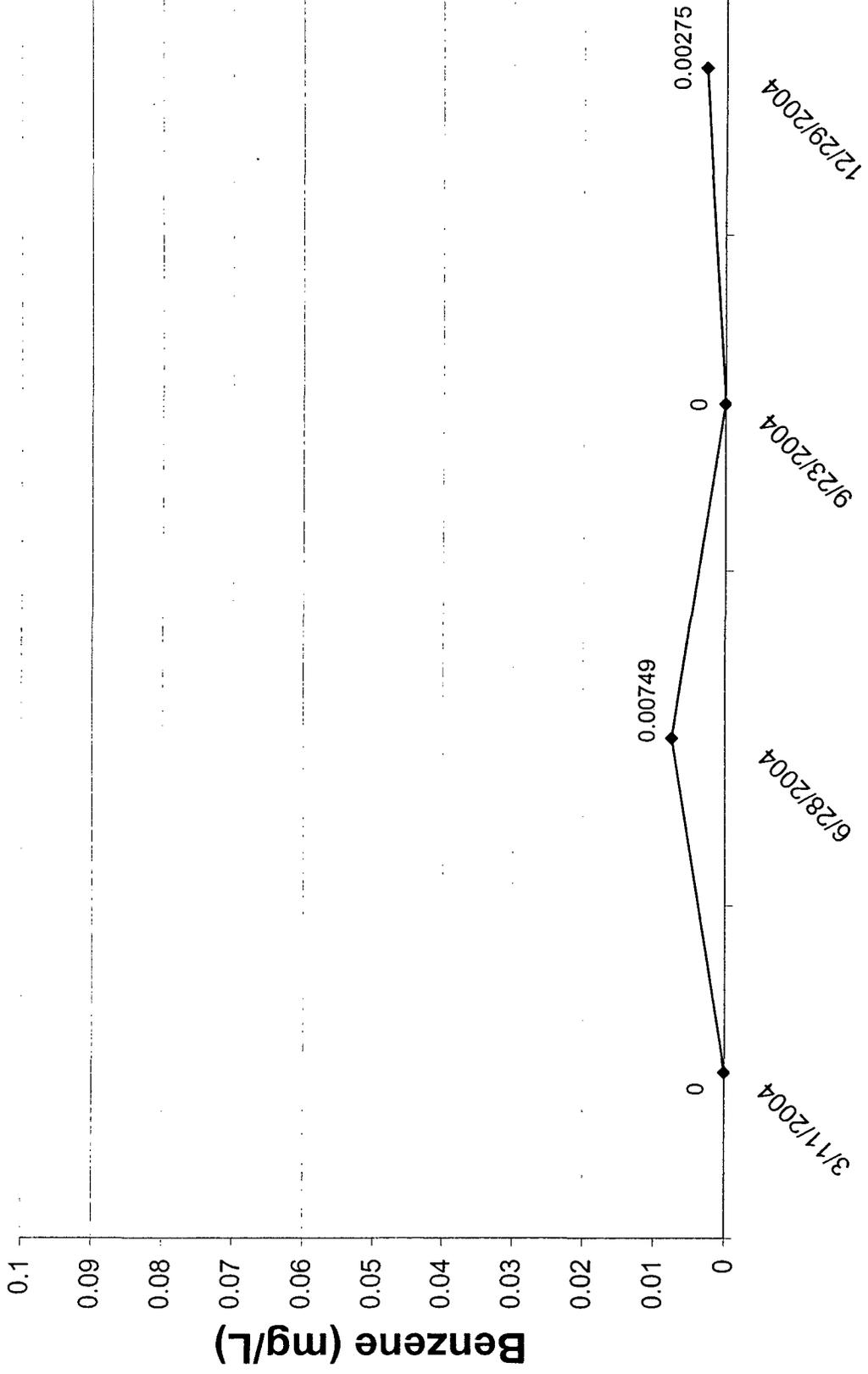
MW-2 Benzene Concentrations



MW-3 Benzene Concentrations



MW-4 Benzene Concentrations



MW-5 Benzene Concentrations

