

AP - 66

**ANNUAL  
MONITORING REPORT**

**YEAR(S):**  
2004

# **RICE** *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240  
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 2410 0000 4940 1855

January 26, 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 MONITOR WELL REPORT/SAMPLING SUMMARY  
JUNCTION N-5, EME SWD SYSTEM  
UNIT 'N', SEC. 5, T20S, R37E  
NMOCD CASE #1R0427-90**

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the EME N-5 junction box site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. One monitoring well was installed in 2002 during the delineation of a junction box. This well is sampled quarterly pursuant to NMOCD guidelines. In 2004, ROC and Arcadis G&M, Inc. of Midland, Texas sampled the well. In 2005, Trident Environmental (Trident) of Midland will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

Trident has been contracted by ROC to address groundwater concerns at this. NMOCD may expect the submission of an Investigation & Characterization Plan (ICP) this year.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

RICE OPERATING COMAPANY

*Kristin Farris Pope*

Kristin Farris Pope  
Project Scientist

enclosures:      Summary table & graph  
                     Analytical results  
                     Map

cc: LBG, CDH, Trident, file, Rob Roy Industries,

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

**EME jct. N-5**

unit 'N', Sec. 5, T20S, R37E

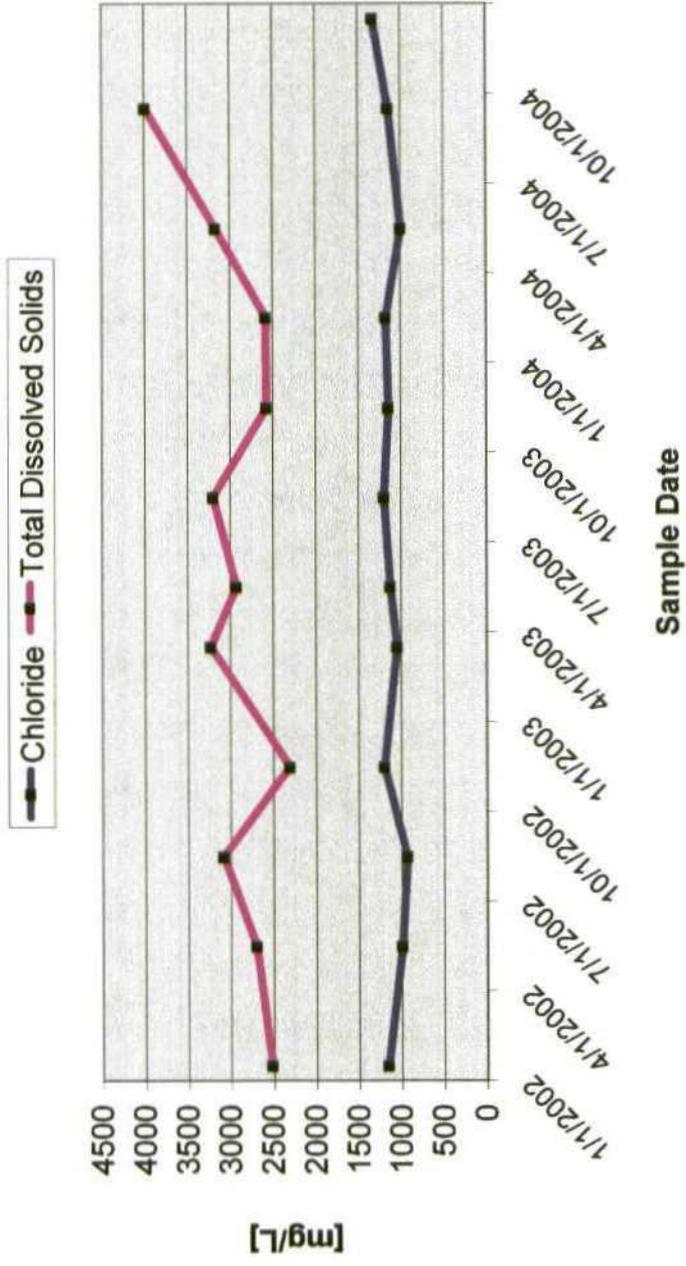
**RICE Operating Company**  
Monitor Well Data Sheet

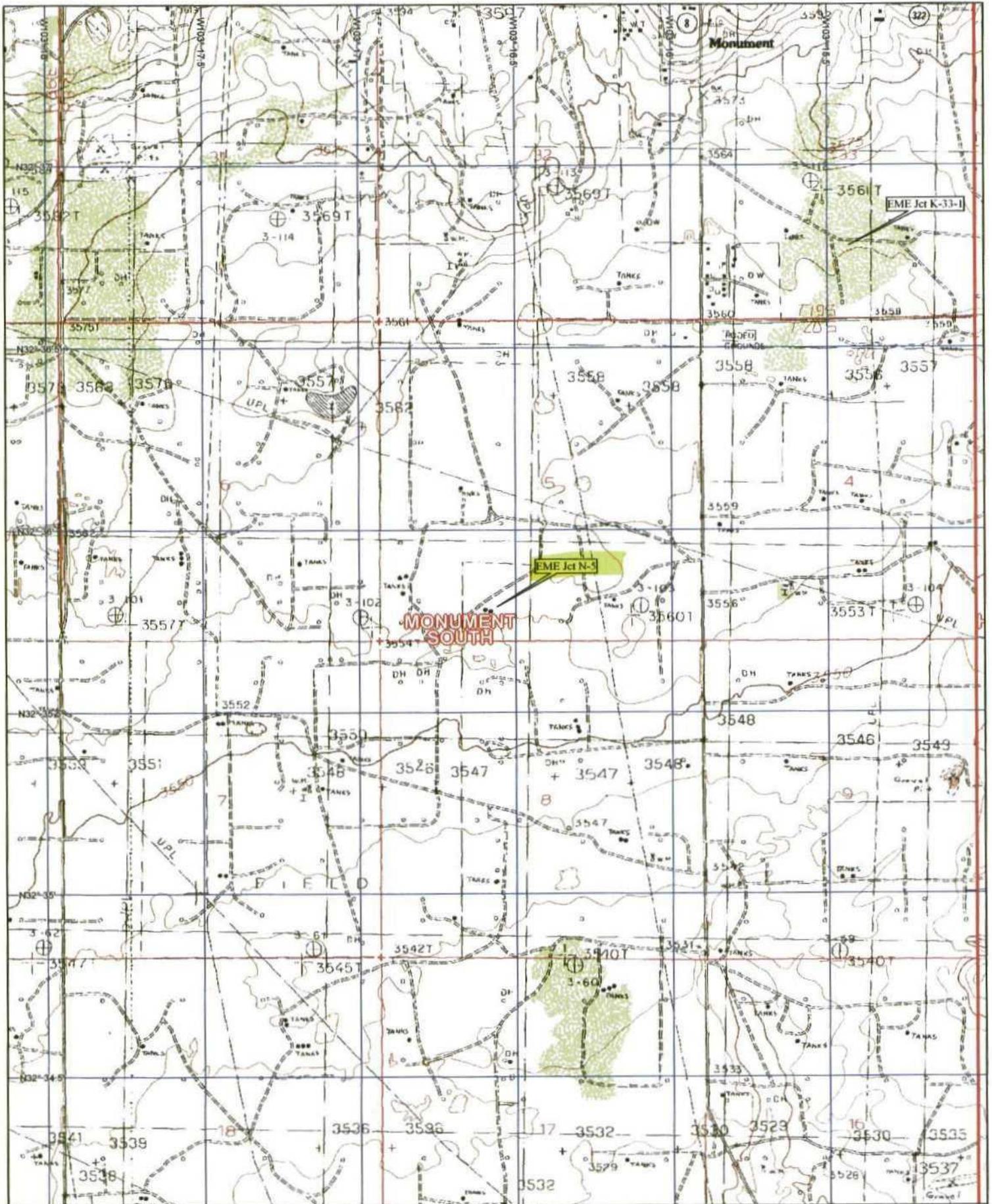
All concentrations are in mg/L

MW #	DEPTH TO WATER *	(ft)		(gal)					TDS	CI	All concentrations are in mg/L				COMMENTS
		TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	BENZENE	TOLUENE	ETHYL BENZENE			TOTAL XYLENES				
1	35.50	41.30	0.900	2.80	1/10/02	<0.002	<0.002	<0.006	2652	1160	<0.006	<0.006	<0.006		
1	37.47	40.18	0.434	2.25	5/13/02	<1.00	1.98	2.80	2520	993	<0.001	9.15	9.15	sandy	
1	37.75	40.19	0.390	1.50	8/12/02	<0.002	<0.001	<0.001	2700	939	<0.002	0.001	0.001		
1	37.90	40.20	0.368	1.29	11/4/02	<0.002	<0.002	<0.002	3083	1200	<0.002	<0.006	<0.006	sandy, slow recharge; hydrocarbon odor	
1	37.78	40.17	0.380	1.10	3/14/03	<0.001	0.002	0.004	2310	1050	0.004	0.011	0.011		
1	38.00	42.21	0.600	2.02	5/29/03	<0.001	0.001	0.004	3230	1130	0.004	0.01	0.01		
1	38.42	40.21	0.200	0.60	8/22/03	XXX	XXX	XXX	2930	1200	XXX	XXX	XXX	oil	
1	38.63	41.55	0.400	1.40	11/20/03	<0.001	0.002	0.003	3200	1150	<0.001	0.012	0.012	oil skim	
1	38.50	40.25	0.280	0.84	2/20/04	<0.002	<0.002	<0.002	2575	1180	<0.002	<0.006	<0.006		
1	37.80	40.25	0.390	1.00	5/26/04	<0.002	0.005	0.005	2583	1000	<0.002	0.010	0.010		
1	37.94	40.35	XXX	1.00	9/2/04	0.000463	0.00087	0.00159	3170	1150	0.000463	0.002582	0.002582	hydrocarbon droplets; cloudy	
1	35.12	37.00	XXX	0.00	12/21/04	<0.001	<0.001	<0.001	3990	1330	<0.001	<0.001	<0.001		

\* Depth to water measured from top of casing  
Casing is 2.125 ft

### EME Jct. N-5 Monitor Well

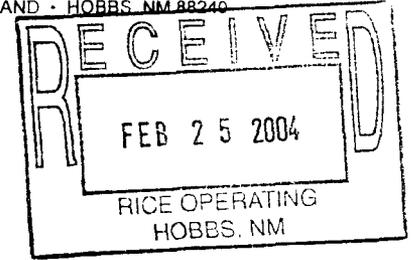






PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240



ANALYTICAL RESULTS FOR  
 RICE OPERATING CO.  
 ATTN: KRISTIN FARRIS  
 122 W. TAYLOR  
 HOBBS, NM 88240  
 FAX TO: (505) 397-1471

Receiving Date: 02/20/04  
 Reporting Date: 02/24/04  
 Project Number: NOT GIVEN  
 Project Name: NOT GIVEN  
 Project Location: EME-5

Sampling Date: 02/20/04  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: GP  
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		02/23/04	02/23/04	02/23/04	02/23/04	02/23/04	02/23/04
H8483-1	EME N-5 MW	444	335	72	7.69	4425	387
Quality Control		NR	59	42	5.17	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	118	85	103	93.6	NR
Relative Percent Difference		NR	1.7	2.3	1.0	0.7	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:		02/23/04	02/23/04	02/23/04	02/23/04	02/24/04	
H8483-1	EME N-5 MW	1180	57	0	472	7.00	2575
Quality Control		1010	53.65	NR	1007	7.04	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		101	107	NR	101	101	NR
Relative Percent Difference		2.0	1.5	NR	1.1	0	1.4

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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*Amy Hill*  
 Chemist

*2/24/04*  
 Date

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**ARDINAL  
LABORATORIES**

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ANALYTICAL RESULTS FOR  
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ATTN: KRISTIN FARRIS  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

Receiving Date: 02/20/04  
Reporting Date: 02/23/04  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: EME-5

Sampling Date: 02/20/04  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		02/20/04	02/20/04	02/20/04	02/20/04
H8483-1	EME N-5 MONITOR WELL	<0.002	<0.002	<0.002	<0.006
Quality Control		0.090	0.096	0.097	0.291
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.2	96.1	96.6	97.0
Relative Percent Difference		3.2	3.6	2.8	2.6

METHOD: EPA SW-846 8260

*Bryan A. Cooke*  
Chemist

2/23/04  
Date





PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 RICE OPERATING  
 ATTN: KRISTIN FARRIS  
 122 W. TAYLOR  
 HOBBS, NM 88240  
 FAX TO: (505) 397-1471

Receiving Date: 05/26/04  
 Reporting Date: 05/28/04  
 Project Number: NOT GIVEN  
 Project Name: EMBEN-5 MW  
 Project Location: NOT GIVEN

Sampling Date: 05/26/04  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: GP  
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		05/27/04	05/27/04	05/27/04	05/27/04
H8743-1	N-5 M.W.	<0.002	0.005	0.005	0.010
Quality Control		0.098	0.099	0.088	0.256
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.9	98.9	87.7	85.4
Relative Percent Difference		7.4	5.0	1.8	3.6

METHOD: EPA SW-846 8260

Bryce J. Cook  
 Chemist

5/28/04  
 Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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 FAX TO: (505) 397-1471

Receiving Date: 05/26/04  
 Reporting Date: 05/28/04  
 Project Number: NOT GIVEN  
 Project Name: EME N-5 MW  
 Project Location: NOT GIVEN

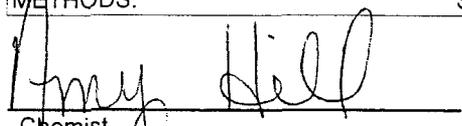
Sampling Date: 05/26/04  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: GP  
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		05/27/04	05/27/04	05/27/04	05/27/04	05/27/04	05/27/04
H8743-1	N-5 M.W.	495	226	77	10.8	4027	480
Quality Control		NR	50	55	4.58	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	100	110	91.6	93.6	NR
Relative Percent Difference		NR	0	0	7.2	0.7	NR

METHODS:	SM3500-Ca-D3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:		05/27/04	05/27/04	05/27/04	05/27/04	05/28/04	
H8743-1	N-5 M.W.	1000	79	0	586	6.88	2583
Quality Control		1010	48.21	NR	1007	6.95	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		101	96.4	NR	101	99.3	NR
Relative Percent Difference		2.0	6.2	NR	1.1	1.6	1.4

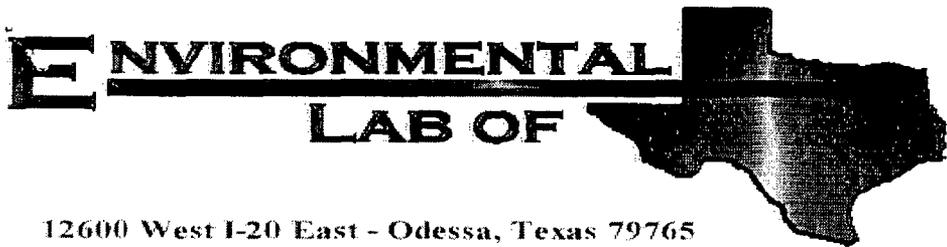
METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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 Chemist

5/28/04  
 Date

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12600 West I-20 East - Odessa, Texas 79765

# Analytical Report

**Prepared for:**

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct N-5/ 510

Project Number: Jct. N-5

Location: Rice Operating/EME

Lab Order Number: 4I03009

Report Date: 09/19/04

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

**Reported:**  
09/19/04 11:17

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4103009-01	Water	09/02/04 14:30	09/03/04 14:48

ARCADIS  
 1004 N. Big Spring Street  
 Midland TX, 79701

Project: Jct N-5/ 510  
 Project Number: Jct. N-5  
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
 09/19/04 11:17

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4103009-01) Water</b>									
Benzene	J [0.000463]	0.00100	mg/L	1	EI41004	09/08/04	09/10/04	EPA 8021B	J
Toluene	J [0.000870]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	0.00159	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00160	0.00100	"	"	"	"	"	"	
Xylene (o)	J [0.000982]	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		98.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

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Fax: (432) 687-5401

Reported:  
09/19/04 11:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4I03009-01) Water</b>									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI41608	09/03/04	09/03/04	EPA 310.2M	
Bicarbonate Alkalinity	420	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	1150	5.00	"	"	EI40805	09/07/04	09/07/04	EPA 325.3M	
Total Dissolved Solids	3170	5.00	"	"	EI41607	09/09/04	09/09/04	EPA 160.1	
Sulfate	77.6	1.00	"	2	EI41312	09/10/04	09/10/04	EPA 375.4	

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Reported:  
09/19/04 11:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4I03009-01) Water</b>									
Calcium	280	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	111	0.100	"	"	"	"	"	"	
Potassium	8.31	0.500	"	10	"	"	"	"	
Sodium	365	1.00	"	100	"	"	"	"	

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1004 N. Big Spring Street  
Midland TX, 79701

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Reported:  
09/19/04 11:17

**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 EI41004 - EPA 5030C (GC)**

**Blank (EI41004-BLK1)**

Prepared & Analyzed: 09/08/04

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	18.3		"	20.0		91.5	80-120			

**LCS (EI41004-BS1)**

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	93.0		ug/l	100		93.0	80-120			
Toluene	95.0		"	100		95.0	80-120			
Ethylbenzene	95.1		"	100		95.1	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

**LCS Dup (EI41004-BSD1)**

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	96.3		ug/l	100		96.3	80-120	3.49	20	
Toluene	99.4		"	100		99.4	80-120	4.53	20	
Ethylbenzene	99.5		"	100		99.5	80-120	4.52	20	
Xylene (p/m)	206		"	200		103	80-120	4.98	20	
Xylene (o)	105		"	100		105	80-120	0.957	20	
Surrogate: a,a,a-Trifluorotoluene	18.0		"	20.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	21.9		"	20.0		110	80-120			

**Calibration Check (EI41004-CCV1)**

Prepared & Analyzed: 09/08/04

Benzene	94.3		ug/l	100		94.3	80-120			
Toluene	95.8		"	100		95.8	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	207		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
09/19/04 11:17

**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 EI41004 - EPA 5030C (GC)**

**Matrix Spike (EI41004-MS1) Source: 4I07001-01 Prepared: 09/08/04 Analyzed: 09/10/04**

Benzene	97.5		ug/l	100	ND	97.5	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	97.8		"	100	ND	97.8	80-120			
Xylene (p/m)	203		"	200	ND	102	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>17.2</i>		<i>"</i>	<i>20.0</i>		<i>86.0</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>20.9</i>		<i>"</i>	<i>20.0</i>		<i>104</i>	<i>80-120</i>			

**Matrix Spike Dup (EI41004-MSD1) Source: 4I07001-01 Prepared: 09/08/04 Analyzed: 09/10/04**

Benzene	99.0		ug/l	100	ND	99.0	80-120	1.53	20	
Toluene	101		"	100	ND	101	80-120	0.00	20	
Ethylbenzene	99.6		"	100	ND	99.6	80-120	1.82	20	
Xylene (p/m)	201		"	200	ND	100	80-120	1.98	20	
Xylene (o)	100		"	100	ND	100	80-120	1.98	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>16.5</i>		<i>"</i>	<i>20.0</i>		<i>82.5</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>19.3</i>		<i>"</i>	<i>20.0</i>		<i>96.5</i>	<i>80-120</i>			

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
09/19/04 11:17

**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
<b>Batch EI40805 - General Preparation (WetChem)</b>										
<b>Blank (EI40805-BLK1)</b> Prepared & Analyzed: 09/07/04										
Chloride	ND	5.00	mg/L							
<b>Matrix Spike (EI40805-MS1)</b> Source: 4I07001-06 Prepared & Analyzed: 09/07/04										
Chloride	1670	5.00	mg/L	500	1170	100	90-110			
<b>Matrix Spike Dup (EI40805-MSD1)</b> Source: 4I07001-06 Prepared & Analyzed: 09/07/04										
Chloride	1660	5.00	mg/L	500	1170	98.0	90-110	0.601	20	
<b>Reference (EI40805-SRM1)</b> Prepared & Analyzed: 09/07/04										
Chloride	4960		mg/L	5000		99.2	80-120			
<b>Batch EI41312 - General Preparation (WetChem)</b>										
<b>Blank (EI41312-BLK1)</b> Prepared & Analyzed: 09/10/04										
Sulfate	ND	0.500	mg/L							
<b>Calibration Check (EI41312-CCV1)</b> Prepared & Analyzed: 09/10/04										
Sulfate	48.9		mg/L	50.0		97.8	80-120			
<b>Duplicate (EI41312-DUP1)</b> Source: 4I03010-01 Prepared & Analyzed: 09/10/04										
Sulfate	76.4	0.500	mg/L		74.6			2.38	20	
<b>Batch EI41607 - Filtration Preparation</b>										
<b>Blank (EI41607-BLK1)</b> Prepared & Analyzed: 09/09/04										
Total Dissolved Solids	ND	5.00	mg/L							

ARCADIS  
 1004 N. Big Spring Street  
 Midland TX, 79701

Project: Jct N-5/ 510  
 Project Number: Jct. N-5  
 Project Manager: Sharon Hall

Fax: (432) 687-5401  
 Reported:  
 09/19/04 11:17

**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 EI41607 - Filtration Preparation**

<b>Duplicate (EI41607-DUP1)</b>		<b>Source: 4I03010-01</b>			<b>Prepared &amp; Analyzed: 09/09/04</b>					
Total Dissolved Solids	1610	5.00	mg/L		1640			1.85	20	

**Batch EI41608 - General Preparation (WetChem)**

<b>Blank (EI41608-BLK1)</b>		<b>Prepared &amp; Analyzed: 09/03/04</b>								
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

<b>Duplicate (EI41608-DUP1)</b>		<b>Source: 4I03010-01</b>			<b>Prepared &amp; Analyzed: 09/03/04</b>					
Carbonate Alkalinity	0.00	0.100	mg/L		0.00					20
Bicarbonate Alkalinity	444	2.00	"		446			0.449		20
Hydroxide Alkalinity	0.00	0.100	"		0.00					20

<b>Reference (EI41608-SRM1)</b>		<b>Prepared &amp; Analyzed: 09/03/04</b>								
Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			

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1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
09/19/04 11:17

**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 EI41506 - General Preparation (Metals)**

**Blank (EI41506-BLK1)**

Prepared & Analyzed: 09/15/04

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

**Blank (EI41506-BLK2)**

Prepared & Analyzed: 09/15/04

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

**Calibration Check (EI41506-CCV1)**

Prepared & Analyzed: 09/15/04

Calcium	2.03		mg/L	2.00		102	85-115			
Magnesium	2.04		"	2.00		102	85-115			
Potassium	1.75		"	2.00		87.5	85-115			
Sodium	1.79		"	2.00		89.5	85-115			

**Calibration Check (EI41506-CCV2)**

Prepared & Analyzed: 09/15/04

Calcium	1.93		mg/L	2.00		96.5	85-115			
Magnesium	2.02		"	2.00		101	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.77		"	2.00		88.5	85-115			

**Duplicate (EI41506-DUP1)**

Source: 4103009-01

Prepared & Analyzed: 09/15/04

Calcium	281	1.00	mg/L		280			0.357	20	
Magnesium	110	0.100	"		111			0.905	20	
Potassium	8.18	0.500	"		8.31			1.58	20	
Sodium	359	1.00	"		365			1.66	20	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
09/19/04 11:17

**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 EI41506 - General Preparation (Metals)**

Duplicate (EI41506-DUP2)	Source: 4I10015-01			Prepared & Analyzed: 09/15/04						
Calcium	20.2	0.100	mg/L		20.2			0.00	20	
Magnesium	28.4	0.0100	"		28.6			0.702	20	
Potassium	16.4	0.500	"		16.6			1.21	20	
Sodium	103	0.100	"		103			0.00	20	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct N-5/ 510  
Project Number: Jct. N-5  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
09/19/04 11:17

### 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:

9-18-04

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: Archadis

Date/Time: 9-3-04

Order #: 4 IC3009 -01

Initials: AT

### Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	3.5 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:

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### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Regarding:

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Corrective Action Taken:

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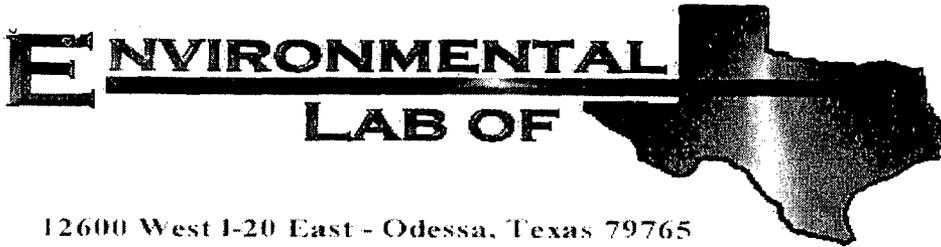


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12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct. N-5/ 510

Project Number: Jct. N-5/ 510

Location: Rice Operating/ EME

Lab Order Number: 4L22008

Report Date: 12/30/04

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct. N-5/ 510  
Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L22008-01	Water	12/21/04 11:40	12/21/04 18:00

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

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Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4L22008-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL43006	12/29/04	12/29/04	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		101 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		106 %	80-120		"	"	"	"	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

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Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4L22008-01) Water</b>									
<b>Total Alkalinity</b>	<b>414</b>	2.00	mg/L	1	EL42907	12/29/04	12/29/04	EPA 310.2M	
<b>Chloride</b>	<b>1330</b>	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
<b>Total Dissolved Solids</b>	<b>3990</b>	5.00	"	"	EL42301	12/22/04	12/23/04	EPA 160.1	
<b>Sulfate</b>	<b>231</b>	2.50	"	5	EL42909	12/29/04	12/29/04	EPA 375.4	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4L22008-01) Water</b>									
Calcium	358	1.00	mg/L	100	EL42302	12/23/04	12/23/04	EPA 6010B	
Magnesium	142	0.100	"	"	"	"	"	"	
Potassium	10.1	0.500	"	10	"	"	"	"	
Sodium	373	1.00	"	100	"	"	"	"	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct. N-5/ 510  
Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

**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 EL43006 - EPA 5030C (GC)**

**Blank (EL43006-BLK1)**

Prepared & Analyzed: 12/29/04

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	100		ug/l	100		100	80-120			
Surrogate: 4-Bromofluorobenzene	91.9		"	100		91.9	80-120			

**LCS (EL43006-BS1)**

Prepared & Analyzed: 12/29/04

Benzene	86.8		ug/l	100		86.8	80-120			
Toluene	85.1		"	100		85.1	80-120			
Ethylbenzene	86.6		"	100		86.6	80-120			
Xylene (p/m)	191		"	200		95.5	80-120			
Xylene (o)	92.9		"	100		92.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			

**Calibration Check (EL43006-CCV1)**

Prepared & Analyzed: 12/29/04

Benzene	89.5		ug/l	100		89.5	80-120			
Toluene	89.6		"	100		89.6	80-120			
Ethylbenzene	91.8		"	100		91.8	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	99.5		"	100		99.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	95.0		"	100		95.0	80-120			

**Matrix Spike (EL43006-MS1)**

Source: 4L22001-05

Prepared & Analyzed: 12/29/04

Benzene	90.0		ug/l	100	ND	90.0	80-120			
Toluene	91.6		"	100	ND	91.6	80-120			
Ethylbenzene	91.4		"	100	ND	91.4	80-120			
Xylene (p/m)	201		"	200	ND	100	80-120			
Xylene (o)	95.8		"	100	ND	95.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct. N-5/ 510  
Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

**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 EL43006 - EPA 5030C (GC)**

**Matrix Spike Dup (EL43006-MSD1)**

Source: 4L22001-05

Prepared & Analyzed: 12/29/04

Benzene	93.0		ug/l	100	ND	93.0	80-120	3.28	20	
Toluene	94.6		"	100	ND	94.6	80-120	3.22	20	
Ethylbenzene	92.4		"	100	ND	92.4	80-120	1.09	20	
Xylene (p/m)	201		"	200	ND	100	80-120	0.00	20	
Xylene (o)	95.6		"	100	ND	95.6	80-120	0.209	20	
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct. N-5/ 510  
Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL42301 - 413.1**

**Blank (EL42301-BLK1)** Prepared: 12/22/04 Analyzed: 12/23/04

Total Dissolved Solids ND 5.00 mg/L

**Duplicate (EL42301-DUP1)** Source: 4L21010-01 Prepared: 12/22/04 Analyzed: 12/23/04

Total Dissolved Solids 590 5.00 mg/L 567 3.98 20

**Batch EL42907 - General Preparation (WetChem)**

**Blank (EL42907-BLK1)** Prepared & Analyzed: 12/29/04

Total Alkalinity ND 2.00 mg/L

**Duplicate (EL42907-DUP1)** Source: 4L22002-01 Prepared & Analyzed: 12/29/04

Total Alkalinity 181 2.00 mg/L 182 0.551 20

**Reference (EL42907-SRM1)** Prepared & Analyzed: 12/29/04

Carbonate Alkalinity 0.0501 mg/L 0.0500 100 80-120

**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

**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 EL42908 - General Preparation (WetChem)**

<b>Reference (EL42908-SRM1)</b>				Prepared & Analyzed: 12/29/04						
Chloride	4960		mg/L	5000		99.2	80-120			

**Batch EL42909 - General Preparation (WetChem)**

<b>Blank (EL42909-BLK1)</b>				Prepared & Analyzed: 12/29/04						
Sulfate	ND	0.500	mg/L							

<b>Calibration Check (EL42909-CCV1)</b>				Prepared & Analyzed: 12/29/04						
Sulfate	48.9		mg/L	50.0		97.8	80-120			

<b>Duplicate (EL42909-DUP1)</b>				Source: 4L21010-01		Prepared & Analyzed: 12/29/04				
Sulfate	96.6	1.00	mg/L		99.8			3.26	20	

ARCADIS  
 1004 N. Big Spring Street  
 Midland TX. 79701

Project: Jct. N-5/ 510  
 Project Number: Jct. N-5/ 510  
 Project Manager: Sharon Hall

Fax: (432) 687-5401

**Reported:**  
 01/03/05 15:13

**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 EL42302 - 6010B/No Digestion**

**Blank (EL42302-BLK1)**

Prepared & Analyzed: 12/23/04

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

**Calibration Check (EL42302-CCV1)**

Prepared & Analyzed: 12/23/04

Calcium	2.00		mg/L	2.00		100	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.92		"	2.00		96.0	85-115			

**Duplicate (EL42302-DUP1)**

Source: 4L21010-01RE1 Prepared & Analyzed: 12/23/04

Calcium	55.1	0.100	mg/L		57.3			3.91	20	
Magnesium	13.2	0.0100	"		13.0			1.53	20	
Potassium	12.5	0.500	"		13.2			5.45	20	
Sodium	105	1.00	"		112			6.45	20	

ARCADIS  
1004 N. Big Spring Street  
Midland TX, 79701

Project: Jct. N-5/ 510  
Project Number: Jct. N-5/ 510  
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:  
12/30/04 15:43

### 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: \_\_\_\_\_

*Celey D. Keene*

Date: \_\_\_\_\_

*01/03/05*

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 Variance / Corrective Action Report – Sample Log-In

Client: Arcadis

Date/Time: 12-21-04 @ 1800

Order #: 4L22008

Initials: JMM

### Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	No	1.0	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="radio"/> Not present	
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="radio"/> Not present	
Chain of custody present?	<input checked="" type="radio"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	No		
Container labels legible and intact?	<input checked="" type="radio"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	No		
Samples properly preserved?	<input checked="" type="radio"/> Yes	No		
Sample bottles intact?	<input checked="" type="radio"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	No	Not Applicable	

Other observations:

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### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
Regarding:

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Corrective Action Taken:

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