

AP - 66

ANNUAL MONITORING REPORT

YEAR(S):

2008

CERTIFIED MAIL
RETURN RECEIPT NO. 7099 3400 0017 1737 1834

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February 20, 2009

Mr. Brad Jones
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

**RE: 2008 ANNUAL GROUNDWATER MONITORING REPORT
EME JCT. N-5 SITE (AP-66)
T20S, R37E, SECTION 5, UNIT LETTER N
LEA COUNTY, NEW MEXICO**

Mr. Jones:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2008 Annual Monitoring Well Report for the Jct. N-5 Site (AP-66) located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

ROC is in the process of obtaining BLM approval for site access to begin pump operations; therefore, it is necessary that we request an extension for the submission of the report documenting "*the results of the delineation*" (60 days of pumping) "*to the OCD within 90 days*" of the OCD's January 8th email (attached). We will keep NMOCD updated and notify when BLM approval is granted and begin pumping within 30 days of BLM approval.

ROC is the service provider (agent) for the EME SWD 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 and request for extension. If you have any questions, do not hesitate to contact me at (432) 638-8740 or Hack Conder at (575) 393-9174.

Sincerely,

A handwritten signature in black ink, appearing to read "Gilbert J. Van Deventer".

Gilbert J. Van Deventer, PG, REM

cc: HC, MB

enclosures: maps, table, graphs, laboratory analytical reports, email communication

From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us]
Sent: Thursday, January 08, 2009 9:40 AM
To: Hack Conder
Cc: Price, Wayne, EMNRD; Johnson, Larry, EMNRD; Gil Van Deventer
Subject: Request for Closure of the Amended Stage 2 Abatement Plan (AP-66) further delineation

RE: Request for Closure of the Amended Stage 2 Abatement Plan (AP-66) further Delineation for the Rice Operating Company's EME SWD Jct. N-5 Site Unit Letter N, Section 5, T20S, R37E, Lea County, New Mexico

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the Request for Closure of the Amended Stage 2 Abatement Plan (AP-66) for the EME Jct. N-5 Site, dated July 16, 2008, and has conducted a review of the Plan. The Request, submitted for the above-referenced site, indicates that Rice Operating Company (ROC) has not met the requirements of OCD Part 30 (formerly, Rule 19) for termination. Therefore, the OCD hereby cannot approve the Request for Closure for above-referenced site, dated July 16, 2008, in accordance with 19.15.30 NMAC. The OCD recommends that ROC perform short-term (at least 60 days) aggressive pumping at groundwater monitoring well MW-2 at the site to further delineate the release.

Please submit a report with the results of the delineation to the OCD within 90 days for review.

ROC must continue to perform groundwater monitoring at the site.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

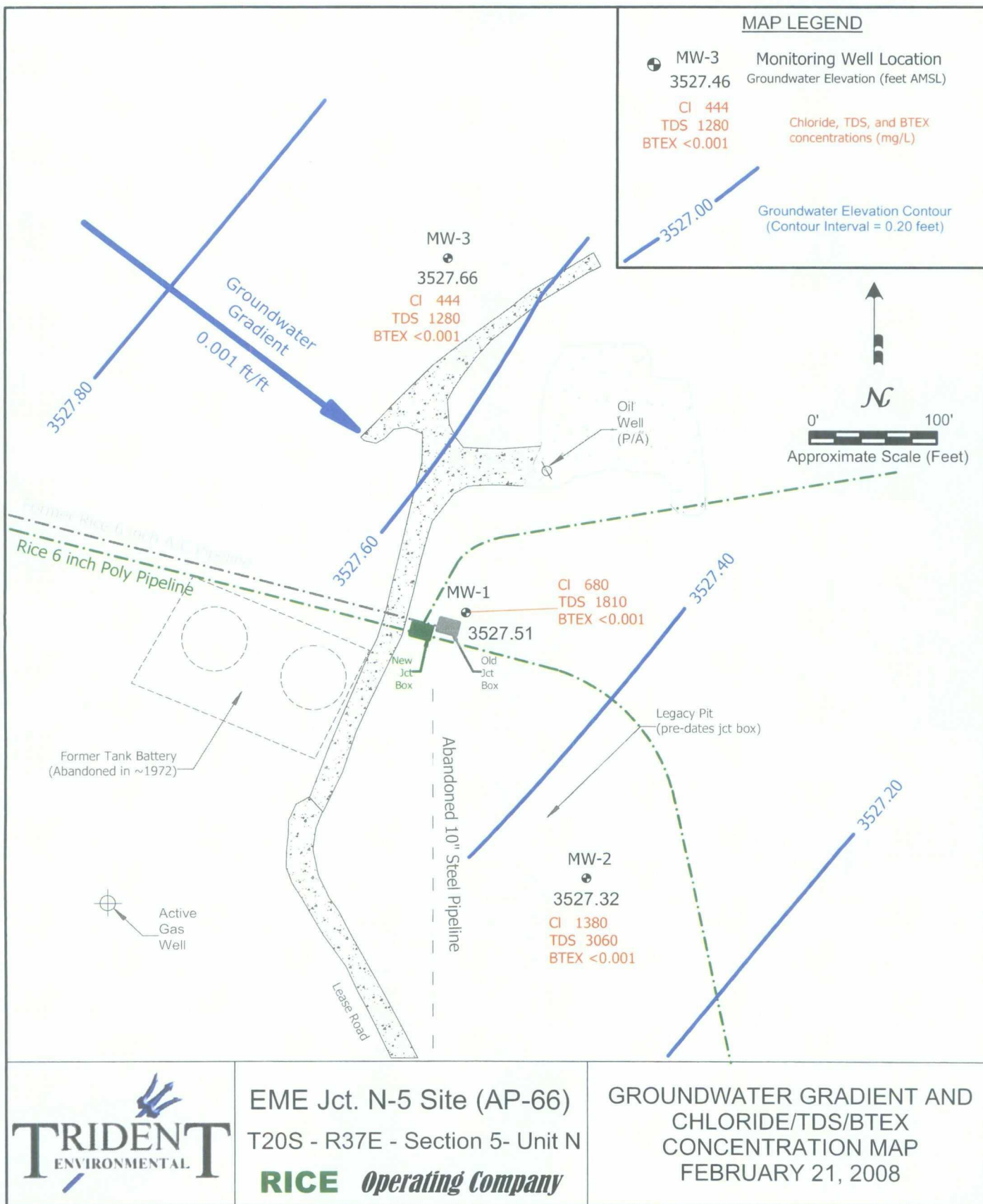
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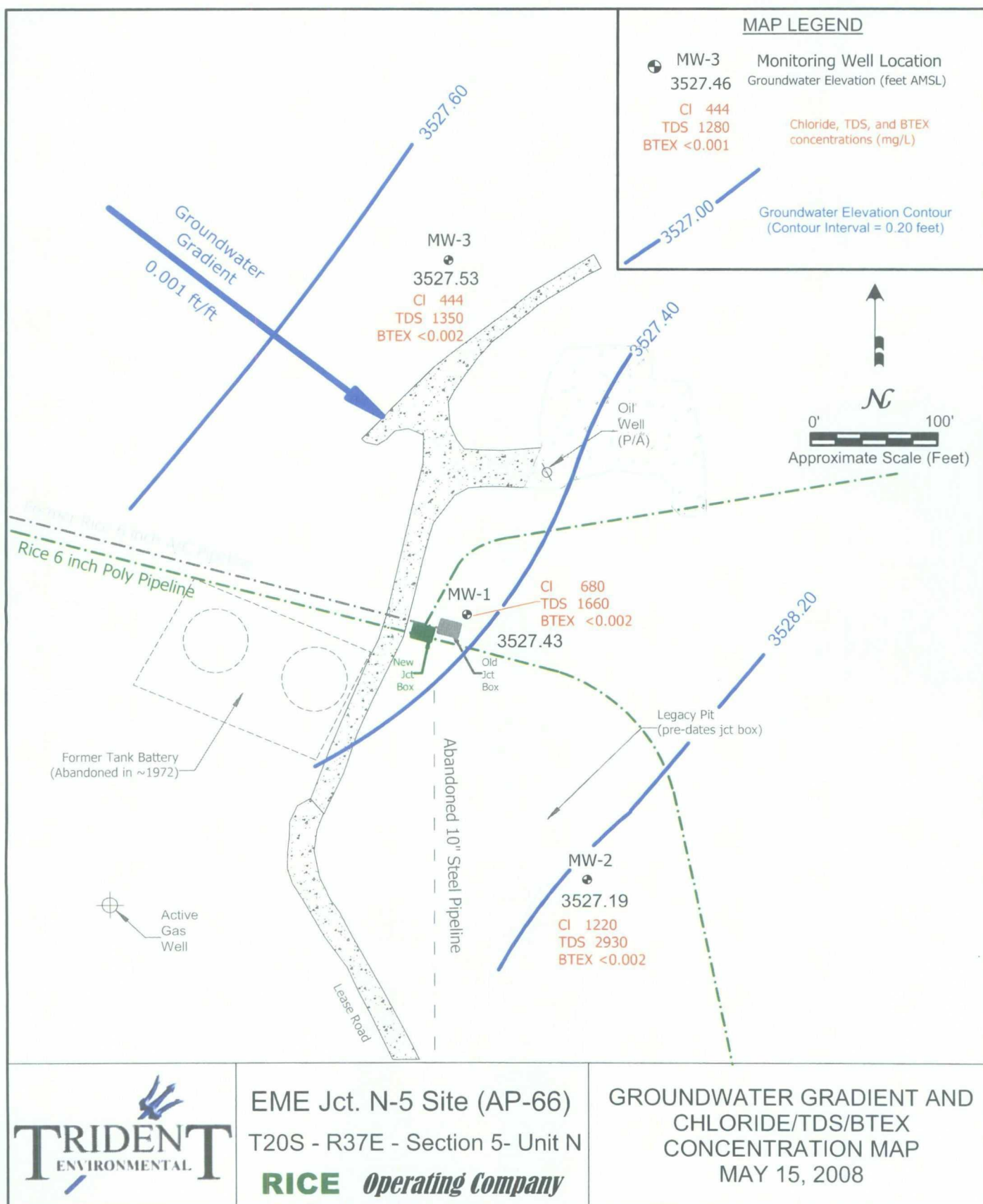
ATTACHMENT A

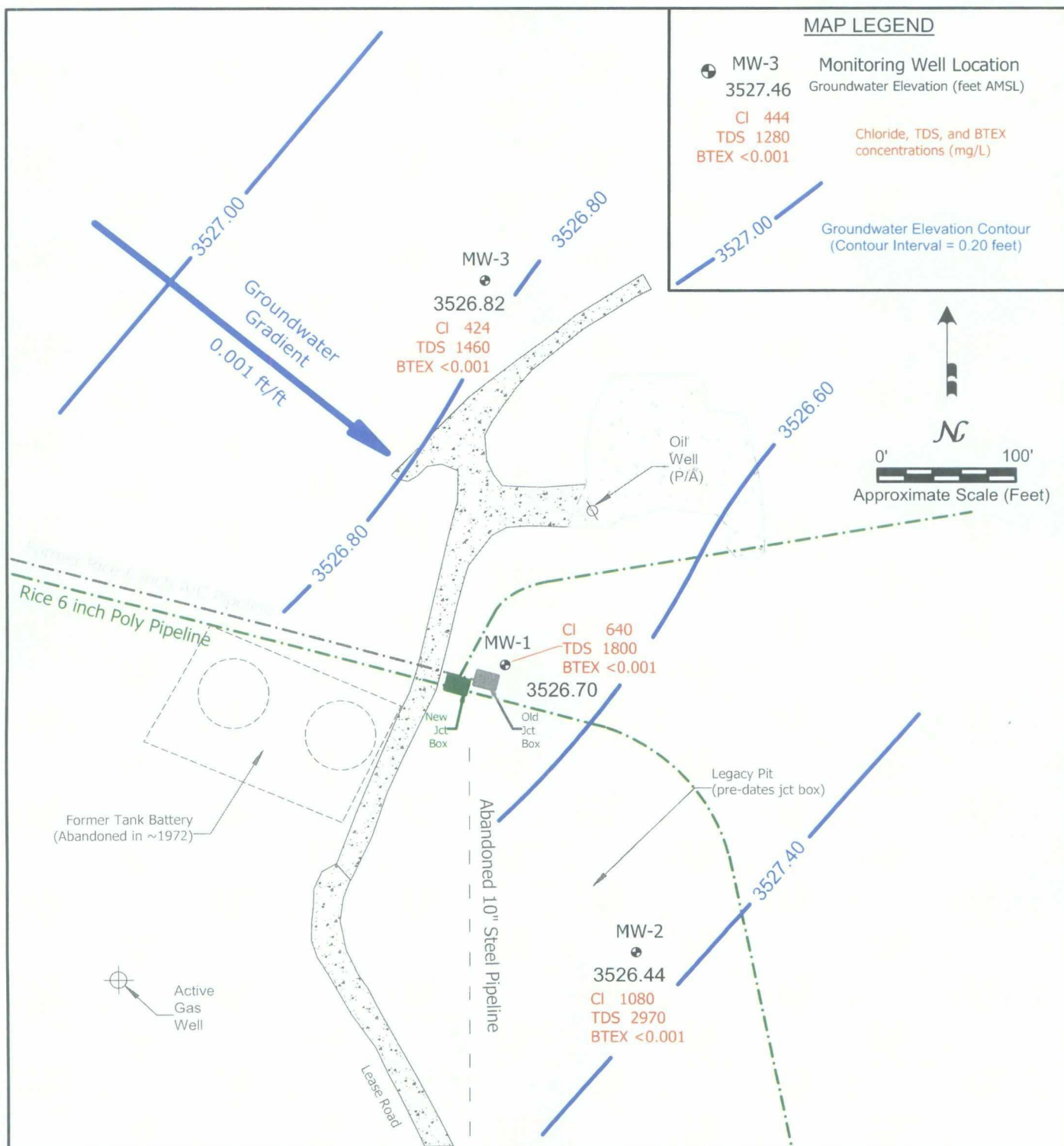
Site Maps

Table

Graphs

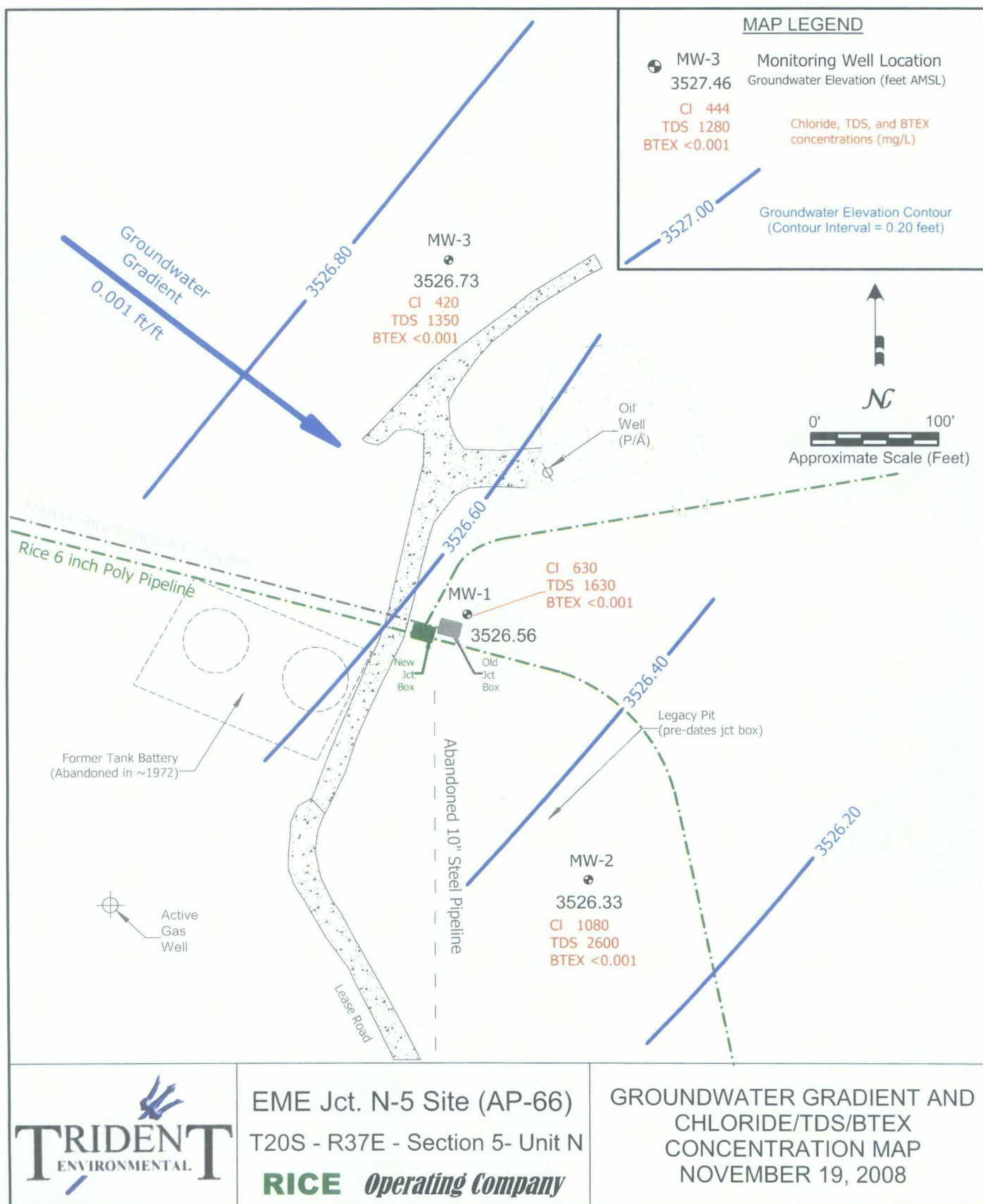






EME Jct. N-5 Site (AP-66)
T20S - R37E - Section 5- Unit N
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE/TDS/BTEX
CONCENTRATION MAP
AUGUST 20, 2008



Chloride, TDS, and Groundwater Elevation Values Versus Time

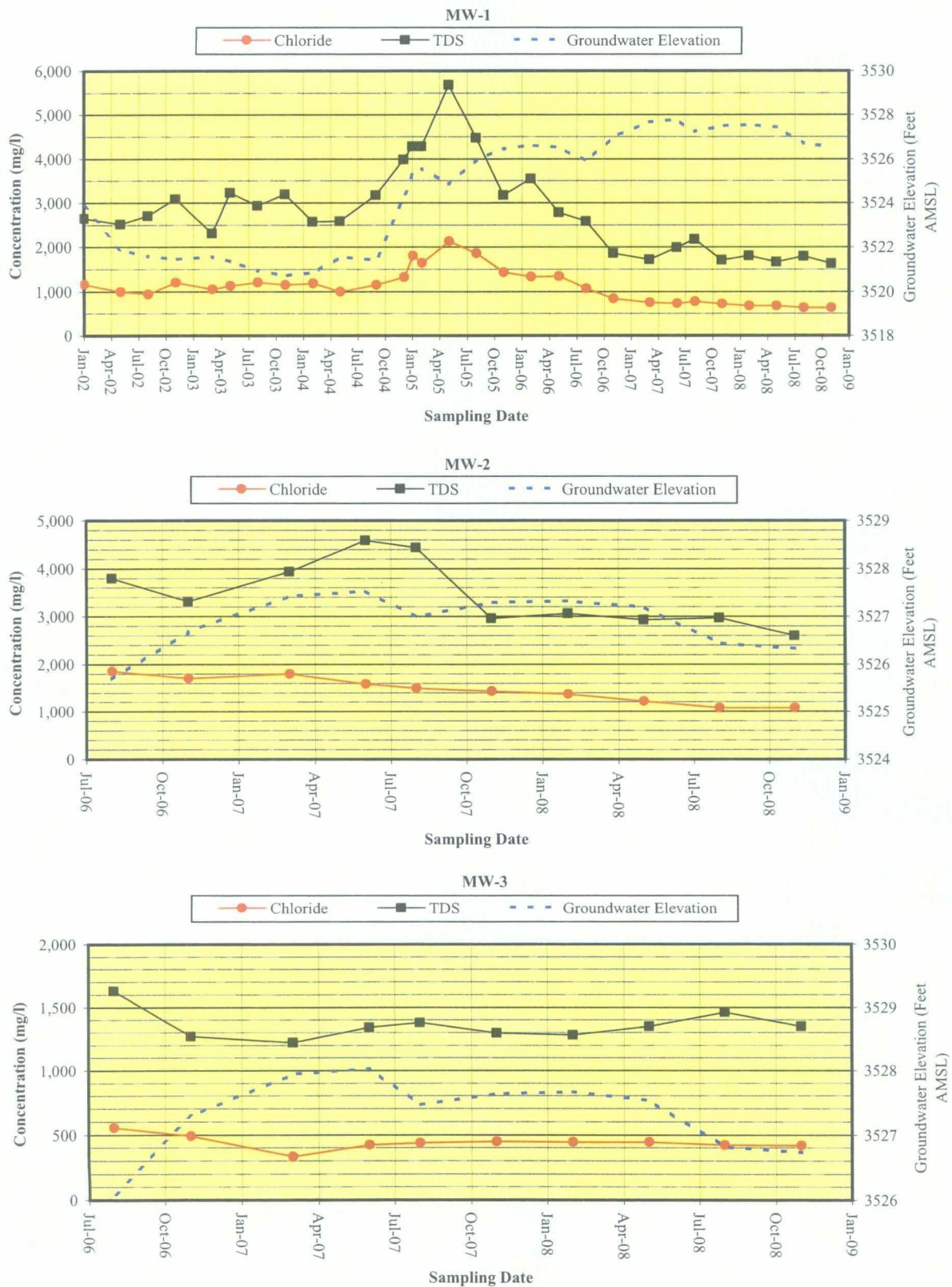


Table 1
Summary of Groundwater Sampling Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Water Table Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	01/10/02	35.50	3523.85	1,160	2,652	<0.002	<0.002	<0.006	<0.006
	05/13/02	37.47	3521.88	993	2,520	<0.001	0.002	0.003	0.009
	08/12/02	37.75	3521.60	939	2,700	<0.001	<0.001	<0.001	0.001
	11/04/02	37.90	3521.45	1,200	3,083	<0.002	<0.002	<0.002	<0.006
	03/14/03	37.78	3521.57	1,050	2,310	<0.001	0.002	0.004	0.011
	05/29/03	38.00	3521.35	1,130	3,230	<0.001	0.001	0.004	0.01
	08/22/03	38.42	3520.93	1,200	2,930	---	---	---	---
	11/20/03	38.63	3520.72	1,150	3,200	<0.001	0.002	0.003	0.012
	02/20/04	38.50	3520.85	1,180	2,575	<0.002	<0.002	<0.002	<0.006
	05/26/04	37.80	3521.55	1,000	2,583	<0.002	0.005	0.005	0.010
	09/02/04	37.94	3521.41	1,150	3,170	<0.001	0.001	0.002	0.003
	12/21/04	35.12	3524.23	1,330	3,990	<0.001	<0.001	<0.001	<0.001
	01/26/05	34.03	3525.32	1,810	4,280	<0.001	<0.001	0.001	0.001
	02/08/05	33.79	3525.56	1,640	4,280	<0.001	<0.001	0.002	0.001
	05/02/05	34.50	3524.85	2,140	5,680	<0.001	<0.001	0.003	0.002
	08/11/05	33.39	3525.96	1,860	4,480	<0.001	<0.001	<0.001	<0.001
	11/28/05	32.90	3526.45	1,430	3,180	<0.001	<0.001	<0.001	<0.001
	02/21/06	32.72	3526.63	1,340	3,550	<0.001	<0.001	<0.001	<0.001
	05/17/06	32.83	3526.52	1,350	2,780	<0.001	<0.001	<0.001	<0.001
	08/21/06	33.45	3525.90	1,070	2,580	<0.001	0.001	0.001	0.004
	11/07/06	32.35	3527.00	841	1,860	0.002	<0.001	0.001	0.001
	03/06/07	31.67	3527.68	757	1,720	<0.001	0.001	0.001	<0.001
	06/07/07	31.57	3527.78	731	1,990	<0.001	0.001	0.001	<0.001
	08/27/07	32.12	3527.23	780	2,183	<0.002	<0.002	<0.002	<0.006
	11/09/07	31.84	3527.51	724	1,707	<0.001	<0.001	<0.001	<0.003
	02/21/08	31.81	3527.54	680	1,810	<0.001	<0.001	<0.001	<0.003
	05/15/08	31.92	3527.43	680	1,660	<0.002	<0.002	<0.002	<0.006
	08/20/08	32.65	3526.70	640	1,800	<0.001	<0.001	<0.001	<0.003
	11/19/08	32.79	3526.56	630	1,630	<0.001	<0.001	<0.001	<0.003
MW-2	08/21/06	33.04	3525.70	1,860	3,800	<0.001	<0.001	<0.001	<0.001
	11/07/06	32.06	3526.68	1,710	3,310	<0.001	<0.001	<0.001	<0.001
	03/06/07	31.32	3527.42	1,800	3,940	<0.001	<0.001	<0.001	<0.001
	06/07/07	31.22	3527.52	1,590	4,590	<0.001	<0.001	<0.001	<0.001
	08/27/07	31.75	3526.99	1,500	4,441	<0.002	<0.002	<0.002	<0.006
	11/09/07	31.45	3527.29	1,440	2,962	<0.001	<0.001	<0.001	<0.003
	02/21/08	31.42	3527.32	1,380	3,060	<0.001	<0.001	<0.001	<0.003
	05/15/08	31.55	3527.19	1,220	2,930	<0.002	<0.002	<0.002	<0.006
	08/20/08	32.30	3526.44	1,080	2,970	<0.001	<0.001	<0.001	<0.003
	11/19/08	32.41	3526.33	1,080	2,600	<0.001	<0.001	<0.001	<0.003
MW-3	08/21/06	31.86	3526.10	553	1,630	<0.001	<0.001	<0.001	<0.001
	11/07/06	30.68	3527.28	491	1,270	<0.001	<0.001	<0.001	<0.001
	03/06/07	30.02	3527.94	333	1,220	<0.001	<0.001	<0.001	<0.001
	06/07/07	29.93	3528.03	425	1,340	<0.001	<0.001	<0.001	<0.001
	08/27/07	30.50	3527.46	440	1,379	<0.002	<0.002	<0.002	<0.006
	11/09/07	30.33	3527.63	448	1,296	<0.001	<0.001	<0.001	<0.003
	02/21/08	30.30	3527.66	444	1,280	<0.001	<0.001	<0.001	<0.003
	05/15/08	30.43	3527.53	444	1,350	<0.002	<0.002	<0.002	<0.006
	08/20/08	31.14	3526.82	424	1,460	<0.001	<0.001	<0.001	<0.003
	11/19/08	31.23	3526.73	420	1,350	<0.001	<0.001	<0.001	<0.003
WQCC Standards				250	1,000	0.01	0.75	0.75	0.62

ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 02/22/08
Reporting Date: 02/29/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N-LEA COUNTY, NM

Sampling Date: 02/21/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM/KS

LAB NUMBER SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:	02/28/08	02/28/08	02/28/08	02/27/08	02/26/08	02/26/08
H14310-1 MONITOR WELL #1	327	202	56.5	7.43	2,840	356
H14310-2 MONITOR WELL #2	577	359	98.8	6.73	4,870	328
H14310-3 MONITOR WELL #3	273	144	43.6	4.95	2,160	368
Quality Control	NR	50.6	50.8	3.25	1,428	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	101	102	108	101	NR
Relative Percent Difference	NR	< 0.1	1.6	4.4	0.8	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	02/27/08	02/28/08	02/26/08	02/26/08	02/26/08	02/26/08
H14310-1 MONITOR WELL #1	680	138	0	434	6.89	1,810
H14310-2 MONITOR WELL #2	1,380	284	0	400	6.83	3,060
H14310-3 MONITOR WELL #3	444	139	0	449	6.99	1,280
Quality Control	490	24.9	NR	1000	7.05	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	98.0	99.5	NR	100	101	NR
Relative Percent Difference	2.0	8.2	NR	1.2	0.1	NR

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

Date

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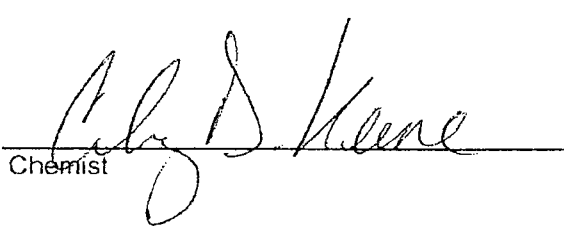
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 02/22/08
Reporting Date: 02/26/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N ~ LEA COUNTY, NM

Sampling Date: 02/21/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		02/25/08	02/25/08	02/25/08	02/25/08
H14310-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H14310-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H14310-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.092	0.083	0.086	0.248
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.1	83.2	86.1	82.5
Relative Percent Difference		0.9	1.0	1.8	1.7

METHOD: EPA SW-846 8021B


Chemist


Date

101 East Mainland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name:

RICE Operating Company

BILL TO Company:

RICE Operating Company

PO#

Project Manager:

Kristin Farris-Pope, Project Scientist

Address: (Street, City, Zip)

122 W Taylor Street ~ Hobbs, New Mexico 88240

Address: (Street, City, Zip)

122 W Taylor Street ~ Hobbs, New Mexico 88240

Phone#:

(575) 393-9174

Fax#:

(575) 397-1471

Phone #:

(575) 393-9174

Fax #:

(575) 397-1471

Project #:

Project Name:

EME Junction N-5

Project Location:

T20S-R37E-Sec5 N ~ Lea County - New Mexico

Sampler Signature: Rozanne Johnson (575) 631-9310

rozanne@valornet.com

LAB #

FIELD CODE

(LAB USE ONLY)

(G)rab or (C)omp

CONTAINERS

WATER
SOIL
AIR
SLUDGE

MATRIX

PRESERVATIVE
METHOD

SAMPLING

HCL (2.40ml VOA)
HNO₃
NaHSO₄
H₂SO₄
ICE (1-1 Liter HDPE)
NONE

DATE (2008)
TIME

H43D-1 Monitor Well #1 G 3 X 2 2-21 10:45

-2 Monitor Well #2 G 3 X 2 2-21 9:40

-3 Monitor Well #3 G 3 X 2 2-21 8:45

Relinquished by: Date: Time: Received by: Date: Time: 3/23/08 10:00 3/23/08 10:01

Rozanne Johnson Received By: (Laboratory Staff) Date: Time: 3/23/08 10:01

Relinquished by: Date: Time: 3/23/08 10:00

Delivered By: (Circle One) Date: Time: 3/23/08 2:10

Sample Condition: Cool Intact

Sampler - UPS - Bus - Other

REMARKS:

Email Results to:

kpope@riceswd.com
lweilheimer@riceswd.com
rozanne@valornet.com

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602
BTEX 8021B/602
TPH 418.1/TX1005 / TX1005 Extended (C35)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP Pesticides
RCI
GC/MS Vol. 8260B/624
GC/MS Semi. Vol. 8270C/625
PCB's 8082/608
Pesticides 8081A/608
BOD, TSS, pH
Moisture Content
Cations (Ca, Mg, Na, K)
Anions (Cl, SO₄, CO₃, HCO₃)
Total Dissolved Solids
Chlorides
Turn Around Time ~ 24 Hours



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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 05/19/08
Reporting Date: 05/27/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N-LEA COUNTY, NM

Sampling Date: 05/15/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		05/27/08	05/22/08	05/23/08	05/23/08	05/21/08	05/21/08
H14834-1	MONITOR WELL #1	315	208	56	5.52	2,800	360
H14834-2	MONITOR WELL #2	541	345	68	7.82	4,510	332
H14834-3	MONITOR WELL #3	268	156	36	5.25	2,130	372
Quality Control		NR	52.1	51.0	2.91	1,409	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	104	102	97.0	99.7	NR
Relative Percent Difference		NR	< 0.1	4.8	3.0	0.8	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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		Cl (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		05/21/08	05/27/08	05/21/08	05/21/08	05/21/08	05/22/08
H14834-1	MONITOR WELL #1	680	120	0	439	6.93	1,660
H14834-2	MONITOR WELL #2	1,220	268	0	405	6.88	2,930
H14834-3	MONITOR WELL #3	444	125	0	454	7.02	1,350
Quality Control		500	59.9	NR	976	7.07	NR
True Value QC		500	60.0	NR	1000	7.00	NR
% Recovery		100	99.8	NR	97.6	101	NR
Relative Percent Difference		< 0.1	0.9	NR	< 0.1	0.7	NR

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

05/28/08
Date

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR ST.
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 05/19/08
Reporting Date: 05/23/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N ~ LEA CO., NM

Sampling Date: 05/15/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		05/20/08	05/20/08	05/20/08	05/20/08
H14834-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H14834-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H14834-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
Quality Control		0.092	0.094	0.110	0.340
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.1	93.6	110	113
Relative Percent Difference		4.0	4.5	2.8	0.9

METHOD: EPA SW-846 8260B


Chemist

05/27/08
Date

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name:

RICE Operating Company

BILL TO Company:

RICE Operating Company

PO#

Project Manager:

Kristin Farris-Pope, Project Scientist

Address:

122 W Taylor Street ~ Hobbs, New Mexico 88240

(Street, City, Zip)

Address: (Street, City, Zip)

122 W Taylor Street ~ Hobbs, New Mexico 88240

Phone#:

(575) 393-9174

Fax#:

(575) 397-1471

Phone #:

(575) 393-9174

Fax #:

(575) 397-1471

Project #:

Project Name:
EME Junction N-5

Project Location:

T20S-R37E-Sec5 N ~ Lea County - New Mexico

Sampler Signature:

Rozanne Johnson (575) 393-9310
rozanne@valornet.com

LAB #
(LAB USE ONLY)

FIELD CODE

(G)rab or (C)omp

CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL (2 40ml VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-1 Liter HDPE)

NONE

DATE (2008)

TIME

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005 / TX1005 Extended (C35)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

Total Dissolved Solids

Chlorides

Turn Around Time ~ 24 Hours

ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by: _____
Date: 5/19/08
Time: _____

Received by: _____
Date: 5/19/08
Time: 11:40 AM

Relinquished by: _____
Date: _____
Time: _____

Phone Results: _____
Fax Results: _____

Yes No
Yes No

Additional Fax Number: _____

Delivered By: (Circle One)

Sample Condition

Cool Intact
Yes No

CHECKED BY: _____
(Initials)

Email Results to: kpope@riceswd.com

lweinheimer@riceswd.com

rozanne@valornet.com

Sampler: _____
Bus - Other: _____



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 08/21/08
Reporting Date: 08/27/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N ~ LEA COUNTY, NM

Sampling Date: 08/20/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM/TR

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		08/26/08	08/26/08	08/26/08	08/26/08	08/25/08	08/25/08
H15790-1	MONITOR WELL #1	299	192	63.2	5.3	2,450	360
H15790-2	MONITOR WELL #2	452	309	82.6	7.4	3,890	332
H15790-3	MONITOR WELL #3	233	156	46.2	4.2	1,880	376
Quality Control		NR	52.1	48.6	3.04	1,412	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	104	97.2	101	99.9	NR
Relative Percent Difference		NR	8.0	1.0	1.3	1.5	NR

METHODS: SM3500-Ca-D 3500-Mg E 8049 120.1 310.1

		Cl (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		08/25/08	08/26/08	08/25/08	08/25/08	08/25/08	08/25/08
H15790-1	MONITOR WELL #1	640	130	0	439	6.99	1,800
H15790-2	MONITOR WELL #2	1,080	242	0	405	6.87	2,970
H15790-3	MONITOR WELL #3	424	113	0	459	6.97	1,460
Quality Control		510	45.1	NR	976	7.00	NR
True Value QC		500	40.0	NR	1000	7.00	NR
% Recovery		102	113	NR	97.6	100	NR
Relative Percent Difference		< 0.1	2.7	NR	2.5	0.7	NR

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

Chemist

Date

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 08/21/08
Reporting Date: 08/25/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5N ~ LEA CO., NM

Sampling Date: 08/20/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		08/22/08	08/22/08	08/22/08	08/22/08
H15790-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H15790-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H15790-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.050	0.048	0.050	0.155
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	96.0	100	103
Relative Percent Difference		0.2	3.4	0.9	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Chemist


Date

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 11/24/08
Reporting Date: 12/02/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N ~ LEA CO., NM

Sampling Date: 11/19/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/TR

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/01/08	12/01/08	12/01/08	12/01/08	11/25/08	11/25/08
H16412-1	MONITOR WELL #1	372	116	60.8	6.4	2,390	372
H16412-2	MONITOR WELL #2	552	224	77.8	8.9	3,650	320
H16412-3	MONITOR WELL #3	288	89.8	49.6	6.4	1,870	352
Quality Control		NR	48.1	51.0	3.02	1,434	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	96.2	102	101	101	NR
Relative Percent Difference		NR	<0.1	4.8	1.3	0.3	NR

METHODS: SM3500-Ca-D 3500-Mg E 8049 120.1 310.1

	Cl (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	11/25/08	11/26/08	11/25/08	11/25/08	11/25/08	11/25/08
H16412-1 MONITOR WELL #1	630	93.1	0	454	7.62	1,630
H16412-2 MONITOR WELL #2	1,080	240	0	390	7.44	2,600
H16412-3 MONITOR WELL #3	420	114	0	429	7.56	1,350
Quality Control	500	43.8	NR	1013	7.02	NR
True Value QC	500	40.0	NR	1000	7.00	NR
% Recovery	100	110	NR	101	100	NR
Relative Percent Difference	<0.1	4.9	NR	1.3	<0.1	NR

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

Chemist

Date

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 11/24/08
Reporting Date: 12/01/08
Project Number: NOT GIVEN
Project Name: EME JUNCTION N-5
Project Location: T20S-R37E-SEC5 N~ LEA CO., NM

Sampling Date: 11/19/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		11/26/08	11/26/08	11/26/08	11/26/08
H16412-1	MONITOR WELL #1	0.001	0.002	0.002	0.004
H16412-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H16412-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.048	0.049	0.047	0.147
True Value QC		0.050	0.050	0.050	0.150
% Recovery		96.0	98.0	94.0	98.0
Relative Percent Difference		3.6	3.6	1.8	2.4

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.

Chemist

Date

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ATTACHMENT C

Well Sampling Data Forms

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
 SYSTEM: EME
 SITE LOCATION: Junction N-5

WELL ID: Monitor Well #1
 DATE: February 21, 2008
 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 40.10 Feet
 DEPTH TO WATER: 31.81 Feet
 HEIGHT OF WATER COLUMN: 8.29 Feet
 WELL VOLUME: 1.3 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:45	18.5	2.84	6.79	Septic Odor / Gray in Color / Heavy Sheen
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #1
DATE: May 15, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 40.10 Feet
DEPTH TO WATER: 31.92 Feet
HEIGHT OF WATER COLUMN: 8.18 Feet
WELL VOLUME: 1.3 Gal.

2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:30	19.1	2.80	6.89	Septic Odor / Gray in Color / Heavy Sheen
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #1
DATE: August 20, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 40.10 Feet
DEPTH TO WATER: 32.65 Feet
HEIGHT OF WATER COLUMN: 7.45 Feet
WELL VOLUME: 1.2 Gal.

2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:30	20.2	2.53	6.98	Septic Odor / Gray in Color / Heavy Sheen
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
 SYSTEM: EME
 SITE LOCATION: Junction N-5

WELL ID: Monitor Well #1
 DATE: November 19, 2008
 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 40.10 Feet
 DEPTH TO WATER: 32.79 Feet
 HEIGHT OF WATER COLUMN: 7.31 Feet
 WELL VOLUME: 1.2 Gal.

2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:15	18.8	2.94	7.58	Septic Odor / Gray in Color / Heavy Sheen
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #2
DATE: February 21, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 44.10 Feet
DEPTH TO WATER: 31.42 Feet
HEIGHT OF WATER COLUMN: 12.68 Feet
WELL VOLUME: 2.0 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:40	18.6	4.95	6.78	Sand to Clear with Slight Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #2
DATE: May 15, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 44.10 Feet
DEPTH TO WATER: 31.55 Feet
HEIGHT OF WATER COLUMN: 12.55 Feet
WELL VOLUME: 2.0 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
				Sand to Clear with Slight Odor
11:40	18.8	4.56	6.72	
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #2
 SYSTEM: EME DATE: August 20, 2008
 SITE LOCATION: Junction N-5 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 44.10 Feet
 DEPTH TO WATER: 32.30 Feet
 HEIGHT OF WATER COLUMN: 11.80 Feet
 WELL VOLUME: 1.9 Gal. 2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:40	20.0	3.96	6.85	Sand to Clear with Slight Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
 SYSTEM: EME
 SITE LOCATION: Junction N-5

WELL ID: Monitor Well #2
 DATE: November 19, 2008
 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 44.10 Feet
 DEPTH TO WATER: 32.41 Feet
 HEIGHT OF WATER COLUMN: 11.69 Feet
 WELL VOLUME: 1.9 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:20	18.7	4.20	7.43	Sand to Clear with Slight Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
SYSTEM: EME DATE: February 21, 2008
SITE LOCATION: Junction N-5 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☐ SWD Disposal Facility

TOTAL DEPTH OF WELL: 43.15 Feet
DEPTH TO WATER: 30.30 Feet
HEIGHT OF WATER COLUMN: 12.85 Feet
WELL VOLUME: 2.1 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
8:45	18.7	2.29	7.01	Sand to Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
SYSTEM: EME DATE: May 15, 2008
SITE LOCATION: Junction N-5 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 43.15 Feet
DEPTH TO WATER: 30.43 Feet
HEIGHT OF WATER COLUMN: 12.72 Feet
WELL VOLUME: 2.0 Gal. 2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:50	18.8	2.23	7.01	Sand to Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #3
DATE: August 20, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 43.15 Feet
DEPTH TO WATER: 31.14 Feet
HEIGHT OF WATER COLUMN: 12.01 Feet
WELL VOLUME: 1.9 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:50	20.1	1.94	6.95	Sand to Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Junction N-5

WELL ID: Monitor Well #3
DATE: November 19, 2008
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 43.15 Feet
DEPTH TO WATER: 31.23 Feet
HEIGHT OF WATER COLUMN: 11.92 Feet
WELL VOLUME: 1.9 Gal.

2 In. Well Diameter
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
8:40	18.3	2.17	7.52	Sand to Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

