

3R - 134

REPORTS

DATE:

2005



3R0134
RECEIVED

January 30, 2006

JAN 31 2006

Mr. Glenn von Gonten
Hydrologist – Groundwater Remediation
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Oil Conservation Division
Environmental

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten:

XTO Energy Inc. (XTO) is submitting the Annual Groundwater Remediation Report in accordance with the NMOCD approved Groundwater Management Plan (GMP). Enclosed are summary reports with analytical data, summary tables, site maps, potentiometric surface diagrams and recommendations/proposed actions for:

- | | | | |
|--------------------------|--------|-------------------------|--------|
| • Abrams J #1 | 3R0100 | • Rowland Gas Com #1 | 3R0124 |
| • Bruington Gas Com B #1 | 3R0106 | • Sullivan Gas Com D #1 | 3R0131 |
| • EJ Johnson C #1E | 3R0385 | • Valdez A #1E | 3R0134 |
| • PO Pipken #3E | | | |
| • Romero Gas Com A #1 | 3R0123 | | |

Also enclosed in the third volume of our Annual Report are three sites that meet the closure requirements outlined in the GMP. XTO respectfully requests closure of:

- | | |
|-----------------------|--------|
| • Armenta Gas Com #1E | 3R0394 |
| • Bergin Gas Com #1E | 3R0105 |
| • State Gas Com BS #1 | 3R0127 |

As we discussed this afternoon, several sites are being reviewed to make sure we have a comprehensive set of reports submitted. An extension will be allowed for reports on the remaining sites to be submitted by April 30, 2006.

Thank you for your review of the reports and allowing some flexibility with this years reporting schedule. If you have any questions please do not hesitate to contact me at (505) 566-7942.

Sincerely,

Lisa Winn
Environmental Specialist
San Juan Division

cc: Mr. Denny Foust, Environmental, NMOCD District III Office, Aztec, NM
Mr. Jeff Blagg, Blagg Engineering Inc.
File – San Juan Groundwater

3R0134

RECEIVED

XTO ENERGY INC.

JAN 31 2006

Oil Conservation Division
Environmental Bureau

ANNUAL GROUNDWATER REMEDIATION REPORT

2005

**VALDEZ A #1E
(G) SECTION 24, T29N, R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION**

JANUARY 2006

**PREPARED BY:
BLAGG ENGINEERING, INC.**

**Consulting Petroleum / Reclamation Services
P.O. Box 87
Bloomfield, New Mexico 87413**

TABLE OF CONTENTS

Groundwater Monitor Well Sampling Procedures	3
Water Quality and Gradient Information	3
Summary	3

Appendices

Table 1: Summary Groundwater Lab Results

Table 2: Summary Free Product Removal of MW #7

Figure 1-7: Site Diagrams

Field Sampling Data Summaries

Laboratory Reports

NMOCD Correspondence Letters

**XTO ENERGY INC.
Valdez A # 1E - Separator Pits
SW/4 NE/4 Sec. 24, T29N, R11W**

Pit Closure Date:

Unknown, prior to 7/88 by Tenneco Oil Co.

Monitor Well Installation Dates:

1988 by Tenneco

Monitor Well Sampling Dates:

1988 to 1993: Data not available
1993 to Present: See Table 1

Historical Information:

- June 1988 – Groundwater monitoring is initiated at site. Well operated by Tenneco Oil Company. Original remedial efforts are not known.
- January 1989 – Amoco Production Company acquires Valdez A #1E from Tenneco.
- February 1993 – Groundwater monitoring initiated by Amoco Production Company.
- January 1998 - XTO Energy Inc. (XTO) acquires the Valdez A #1E from Amoco Production Company.
- January 1998 to Present – Continued quarterly/annual groundwater monitoring to document natural attenuation.
- January 1999 – Monitor well MW8 found removed during quarterly sample event.
- January 2000 – Monitor Well MW7 product removal initiated.
- April 2002 – Monitor wells MW2, 3 and 5 abandoned to satisfy surface (Fee) owners request.
- June 2005 – Monitor wells MW9 & 10 found removed during quarterly sample event.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site (Figure 1) monitor wells (MW) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed in laboratory supplied containers and stored in a cooler on ice. The samples were delivered to an accredited environmental laboratory according to chain-of-custody procedures. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8021B and general water chemistry per US EPA Method 600/4-79-020. Analytical results are summarized in Table 1. Waste generated (groundwater) during monitor well sampling and development was placed in the produced water separator tank located on the well site.

Water Quality and Gradient Information:

The groundwater elevation data indicates the gradient at this site consistently trends to the south west (Figures 2 - 7).

Analytical data from MW 6 and MW 7 show slow attenuation of BTEX constituents, remaining above the New Mexico Water Quality Control Commission (NMWQCC) closure standards. Groundwater from other monitoring wells at the site, including those down gradient from MW 7, exhibit hydrocarbon levels below NMWQCC standards.

Summary and/or Recommendations:

XTO proposes to continue annual testing of both monitor wells MW 6 and MW 7 until natural attenuation successfully reduces hydrocarbon impacts to below closure standards. Quarterly sampling would then be conducted until closure has been achieved.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

VALDEZ A # 1E

UNIT G, SEC. 24, T29N, R11W

REVISED DATE: JANUARY 18, 2006

FILENAME: (VA-2Q-05.WK4) NJV

SAMPLE DATE	MONITOR WELL #	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8021 (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
23-Feb-93	MW #1	13.59	20.30		3900	6.7		ND	ND	ND	ND
07-Jun-93		12.92	20.88		2900	6.7		ND	0.5	ND	1.0
08-Sep-93		12.06	20.36		1750	7.2		ND	ND	ND	ND
09-Mar-94		14.20			3700	6.8		ND	ND	ND	ND
24-Jun-94		12.39			4000	7.1		ND	ND	ND	ND
23-Feb-93	MW #3	14.02	22.80		2600	6.8		ND	ND	ND	ND
07-Jun-93		13.66	23.00		1800	7.2		ND	ND	ND	0.6
08-Sep-93		13.16	22.36		1350	7.1		ND	0.6	ND	11.7
09-Mar-94		14.54			2800	6.9		ND	ND	ND	ND
24-Jun-94		12.95			2500	7.1		ND	ND	ND	ND
23-Feb-93	MW #4	15.18	20.30		3200	6.7		ND	6.0	7.0	2.0
07-Jun-93		14.80	20.83		2100	7.2		ND	3.2	3.2	4.3
08-Sep-93		14.27	19.98		1310			ND	5.9	22.4	7.7
09-Mar-94		15.67			3300	6.9		ND	1.6	ND	1.6
24-Jun-94		14.10			3400	7.1		ND	3.7	2.3	ND
23-Feb-93	MW #5	14.83	17.30		2300	7.2		1320.0	482.0	175.0	731.0
07-Jun-93		13.02	23.71		1900	7.0		ND	ND	ND	0.4
08-Sep-93		12.68	22.78		1140	6.6		ND	1.0	ND	1.8
02-Dec-93		13.06			2500	7.3		ND	ND	ND	ND
09-Mar-94		13.81			2700	7.2		ND	0.4	ND	ND
24-Jun-94		12.30			2200	7.1		ND	ND	ND	ND
23-Feb-93	MW #6	15.06	19.40		2,700	6.9		2,090	7,800	578	4,080
07-Jun-93		14.72	19.50		1,600	7.1		1,300	444	293	840
08-Sep-93		14.27	18.35		1,120	7.3		770	980	174	783
02-Dec-93		14.69			2,900	7.3		540	1,140	144	867
09-Mar-94		15.49			3,100	7.2		580	1,520	130	888
24-Jun-94		14.05			2,800	7.1		542	1,923	164	1,172
23-Sep-94		13.40			2,600	7.2		484	1,696	170	1,300
09-Dec-94		14.02			2,300	7.4		593	2,242	183	1,707
10-Jan-95		14.28			3,200	7.4		450	1,380	153	1,248
09-Feb-95		14.58			3,400	7.4		710	2,160	271	2,297
13-Mar-95		14.85			2,500	7.4		19.8	2,471	289	2,460
10-Apr-95		15.00			2,700	7.3		525	1,840	222	1,502
19-Jun-95		14.48			2,400	7.2		299.3	998.8	114.5	1,045.4
07-Aug-95		14.08			2,400	7.5		593	1,650	247	2,111
12-Sep-95		13.89			2,200	7.4		412	1,390	259	1,549
10-Oct-95		13.74			2,200	7.4		176	970	191	1,552
15-Nov-95		13.98			2,300	6.9		598	1,370	339	2,819
07-Dec-95		14.12			2,700	7.1		599	1,310	304	2,322
07-Mar-96		15.07			1,900	7.1		426	467	234	1,876
18-Jun-96		14.40			2,000	7.1		462	773	305	2,540
17-Jun-97		14.97			2,400	7.6		110	19.6	37.6	288.9
12-Jun-98		14.92			2,000	7.8		55.6	25.2	45.9	296.1
25-Sep-98		14.36			2,700	7.3		42.7	17.7	68.3	469
26-May-99		15.12			2,000	7.3		78.9	22	51.6	273.9
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

TABLE 1 (continued)

XTO ENERGY INC. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

REVISED DATE: JANUARY 18, 2006

FILENAME: (VA-2Q-05.WK4) NJV

SAMPLE DATE	MONITOR WELL #	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8021 (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
26-Jun-00	MW #6	14.53			1,800	7.7		26	2.5	100	670
15-May-01		14.91			2,400	7.32		13	0.5	74	490
25-Jun-02		13.72			2,500	7.51		20	ND	200	1,740
20-May-03		14.47			1,800	7.40		14	1.1	190	1,400
19-Jun-04		14.07			2,600	7.07		7.5	ND	79	530
27-Sep-04		8.27			2,300	7.05		8.4	ND	140	1,100
29-Jun-05		9.13			2,100	7.11		6.9	ND	150	1,100
23-Feb-93	MW #7	13.37	23.32		2,400	6.9		ND	1	ND	2
07-Jun-93		14.54	19.33		1,700	7.1		640	2,270	330	2,430
08-Sep-93		14.15	18.85		1,120	7.4		820	1,660	306	1,780
02-Dec-93		14.56			2,500	7.3		319	366	35.1	242
09-Mar-94		15.30			2,900	6.9		103	88	10.3	74
24-Jun-94		14.04			2,500	7.1		569	2,090	288	3,094
23-Sep-94		13.51			2,500	7.1		627	1,805	189	1,755
09-Dec-94		13.94	18.83		2,000	7.2		707	1,220	161	1,342
10-Jan-95		14.23			3,300	7.2		298	394	54.8	365.4
09-Feb-95		14.50			3,000	7.2		465	624	92	582
13-Mar-95		14.73			2,700	7.2		997.8	813.2	168.4	1,015.9
10-Apr-95		14.87			2,700	7.3		648	456	104	623
19-Jun-95		14.39			2,400	7.1		366.7	414.7	66.1	602.2
07-Aug-95		14.04			2,400	7.4		869	1,000	171	1,431
12-Sep-95		13.85			2,500	7.4		1,725	846	141	1,035
10-Oct-95		13.73			2,600	7.2		143	689	93.6	925
15-Nov-95		13.94			2,400	6.9		710	1,000	178	1,642
07-Dec-95		14.05			2,800	7.2		1,050	606	167	996
07-Mar-96		14.94			2,000	6.9		101	10.3	8.69	42.27
18-Jun-96		14.34			2,200	6.9		128	65.5	11.5	175.3
17-Jun-97		14.83			2,700	7.6		360	16.3	16.5	127.5
12-Jun-98			18.83				0.88				
25-Sep-98							0.88				
26-May-99							0.05				
25-Aug-99							0.62				
30-Nov-99							0.70				
26-Jun-00		14.46	18.83		2,200	7.2		220	63	94	4,080
15-May-01		14.87			2,700	7.05		190	ND	76	880
25-Jun-02		13.72			2,700	7.38		92	14	32	264
20-May-03		14.43			2,000	7.22		99	ND	40	230
19-Jun-04		13.97			2,600	6.98		170	4.1	120	780
29-Jun-05		13.81			2,200	6.98		100	14	68	470
23-Feb-93	MW #8	15.68	17.00		3,200	7.1		2,830	25,500	1,680	5,430
08-Jun-93		15.36	17.01		1,300	6.9		3,220	1,940	1,110	4,960
09-Sep-93		15.16	17.73		1,070	7.6		245	2,040	135	1,499
02-Dec-93		15.44			2,200	7.5		307	2,520	119	1,388
09-Mar-94		15.98			2,700	7.1		223	340	61	232.9
24-Jun-94		14.86			2,300	7.1		375	1,750	108	1,001
23-Sep-94		14.31			2,400	7.1		236	1,827	90	864
09-Dec-94		14.78	18.60		1,900	7.3		307	1,608	105	734
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

TABLE 1 (continued)

XTO ENERGY INC. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

REVISED DATE: JANUARY 18, 2006

FILENAME: (VA-2Q-05.WK4) NJV

								BTEX EPA METHOD 8021 (ppb)			
SAMPLE DATE	MONITOR WELL #	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. (umhos/cm)	pH	PRODUCT (ft)	Benzene	Toluene	Ethyl Benzene	Total Xylene
10-Jan-95	MW #8	15.02			2,800	7.3		320	2,410	119	1,016
09-Feb-95		15.24						183	760	90.9	452
13-Mar-95		15.42			2,400	7.2		415	3,943	202	2,037
10-Apr-95		15.54			2,600	7.3		239	2,780	128	1,245
19-Jun-95					2,300	7.1		148.9	1,448.2	72.8	681.2
07-Aug-95		14.86			2,400	7.4		168	1,590	92.7	893
12-Sep-95		14.71			2,100	7.3		499	1,420	74.1	788
10-Oct-95		14.60			2,300	7.3		88.1	817	52.1	614
15-Nov-95		14.78			2,400	6.9		158	2,110	150	1,488
07-Dec-95		14.87			2,700	7.0		156	1,920	135	1,277
07-Mar-96		15.60			1,900	6.9		98.1	1,320	82.5	778
18-Jun-96		15.15			2,100	7.1		5.45	2.25	ND	3.5
27-Dec-96		15.12	18.28		2,500	7.3		105.0	569	51.0	421
17-Jun-97		14.01			2,600	7.6		45.4	83.0	29.8	88.9
12-Jun-98		15.54			2,000	7.9		5.4	5.1	1.1	9.1
25-Sep-98		15.03			2,700	7.1		0.3	0.3	0.2	2.4
25-Sep-93	MW #9	8.56	11.00		1,500	7.5		ND	1.0	ND	2.0
08-Jun-93		8.19			1,900	6.5		ND	2.1	0.3	2.3
09-Sep-93		8.00	10.92		1,200	7.3		0.9	0.6	ND	0.4
09-Mar-94		8.83			3,000	6.9		ND	2.1	0.7	7.0
24-Jun-94		7.80			2,500	7.1		1.6	5.5	4.1	3.1
25-Sep-98		7.93	11.08		2,900	6.9		0.6	0.2	ND	1.1
26-May-99		8.49			2,100	7.1		25.1	13.7	4.3	47.0
25-Aug-99		8.12			2,300	7.1		0.7	2.0	ND	2.7
30-Nov-99		7.99			2,500	7.1		4.2	2.9	0.3	4.6
26-Jun-00		8.07			2,500	7.5		ND	ND	ND	ND
20-Mar-01		8.57			1,800	7.30		ND	ND	ND	ND
23-Feb-93	MW #10	8.65	9.80		3,600	7.4		ND	ND	ND	1.0
08-Jun-93		8.43	9.80		1,800	7.0		ND	0.7	ND	0.9
09-Sep-93		7.76			1,180	7.3		ND	0.3	ND	1.1
09-Mar-94		8.98			2,900	7.0		ND	2.3	ND	0.4
24-Jun-94		8.00	12.15		2,700	7.0		2.2	ND	ND	ND
23-Sep-94		7.56			2,400	7.1		0.7	0.7	ND	ND
09-Dec-94		7.88	12.44		2,000	7.5		ND	0.2	ND	ND
13-Mar-95		8.46			2,800	7.1		ND	ND	ND	ND
19-Jun-95		8.22			2,200	7.1		ND	ND	ND	ND
12-Sep-95		7.84			2,200	7.3		ND	ND	ND	ND
07-Dec-95		7.93			2,600	6.9		ND	ND	ND	ND
07-Mar-96		8.62			1,900	6.9		ND	ND	ND	ND
18-Jun-96		8.22			2,200	6.9		ND	ND	ND	ND
25-Aug-99		8.30			2,200	7.3		1.7	0.9	ND	1.2
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

NOTES : 1) RESULTS HIGHLIGHTED IN RED INDICATE EXCEEDING NMWQCC STANDARDS.
 2) RESULTS HIGHLIGHTED IN BLUE INDICATE BELOW NMWQCC STANDARDS AFTER PROCEEDING RESULTS HAD EXCEEDED.

TABLE 2
CROSS TIMBERS OIL COMPANY
VALDEZ A #1E
FREE PRODUCT REMOVAL OF MW #7

Vol. = 0.085775842 gal. / ft

DATE	TIME OF 1st BAIL	DEPTH TO PRODUCT (FT.)	DEPTH TO WATER (FT.)	TOTAL DEPTH (FT.)	PRODUCT THICKNESS (FT.)	PRODUCT THICKNESS ACCUM. (FT.)	PRODUCT VOLUME REMOVED (GAL.)	(oz.)	WELL VOLUME PURGED (GAL.)
17-Jan-00	1450	14.72	NA	18.83	0.15	1.80	0.1544	19.76	3.50
18-Jan-00	1140	14.86	14.96	18.83	0.10	0.38	0.0326	4.17	3.50
19-Jan-00	1415	14.79	14.84	18.83	0.05	0.24	0.0206	2.64	3.50
20-Jan-00	1430	14.77	14.83	18.83	0.06	0.19	0.0163	2.09	3.50
24-Jan-00	1345	14.84	14.88	18.83	0.04	0.17	0.0146	1.87	3.50
28-Jan-00	1050	14.82	14.84	18.83	0.02	0.06	0.0051	0.66	3.50
25-Feb-00	-	-	15.12	18.83	0.00	-	-	-	2.00

TOTALS 2.84 0.24 31.18

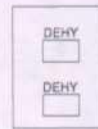
INITIAL PRODUCT THICKNESS EITHER MEASURED USING FREE PRODUCT INTERFACE PROBE OR BY BAILER (INDICATED BY NA WITHING DEPTH TO WATER COLUMN).

FIGURE 1



METER HOUSES
&
SALES' LINES

MW #1



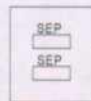
FENCE

WELL
HEAD

MW #2

**REMOVED
BY BLAGG ENGR.
ON 4/4/02**

FENCE



FENCE

MW #4

MW #3

**REMOVED
BY BLAGG ENGR.
ON 4/4/02**

MW #6

MW #5

**REMOVED
BY BLAGG ENGR.
ON 4/4/02**

MW #7

FENCE

**MW #8 HAD BEEN
REMOVED BETWEEN
OCT. '98 - JAN. '99**

**MW #9 HAD BEEN
REMOVED BETWEEN
OCT. '04 - JUN. '05**

**MW #10 HAD BEEN
REMOVED BETWEEN
OCT. '04 - JUN. '05**

**SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH.
ALL OTHER STRUCTURES DISPLAYED ON THE SITE
MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE
TO SCALE.**

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.

VALDEZ A #1E

SW/4 NE/4 SEC. 24, T29N, R11W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: 1/4ly Monitor.

DRAWN BY: NJV

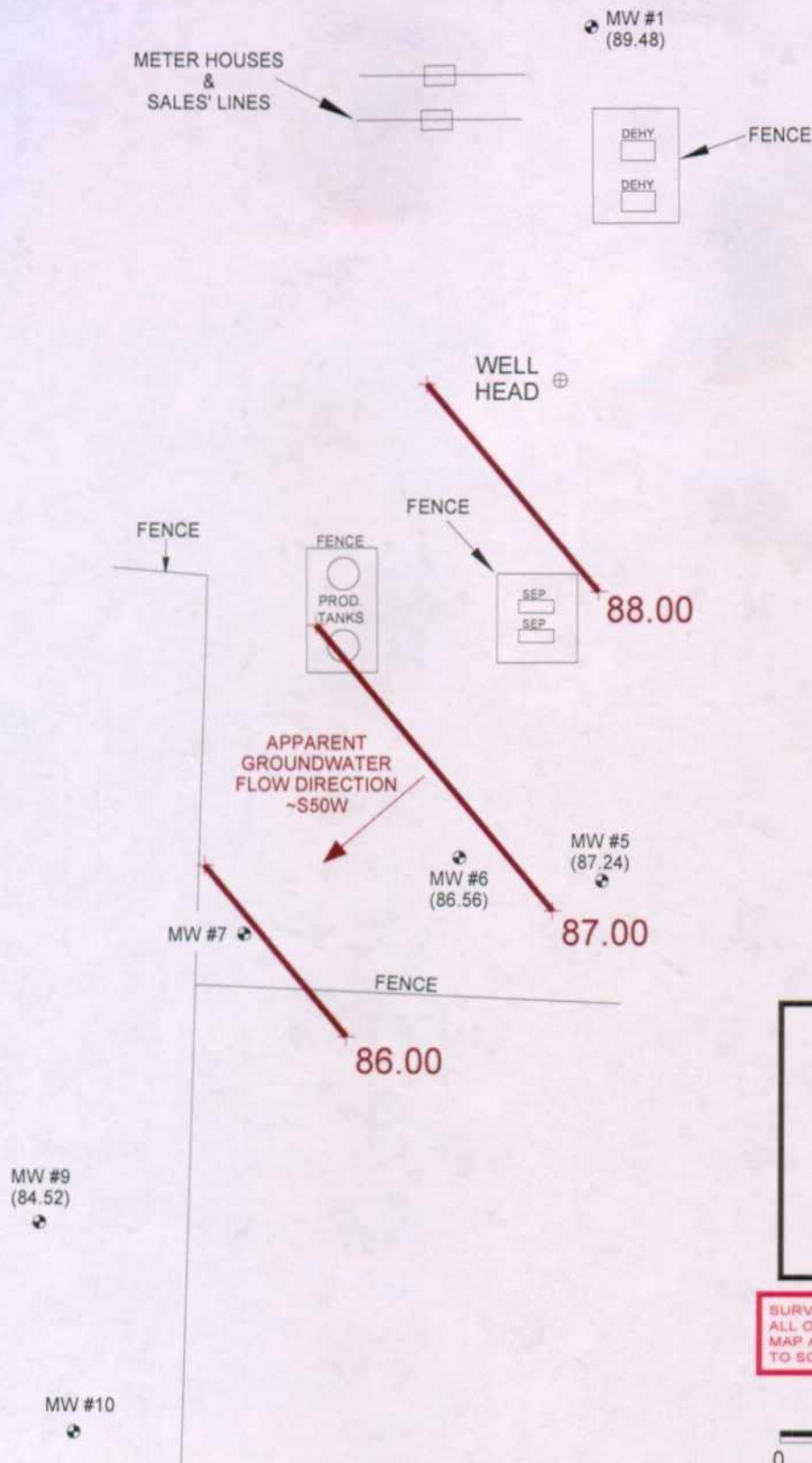
FILENAME: 11-30-99-SM.SKF

REVISED: 1/18/06 NJV

**SITE
MAP**

11/99

FIGURE 2
(2nd 1/4, 2000)



Top of Well Elevation	
MW #1	(102.56)
MW #5	(100.08)
MW #6	(101.09)
MW #7	(95.62)
MW #9	(92.59)
Groundwater Elevation as of 6/26/00.	
⊕ MW #1 (89.48)	

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH.
ALL OTHER STRUCTURES DISPLAYED ON THE SITE
MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE
TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.

VALDEZ A #1E

SW/4 NE/4 SEC. 24, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

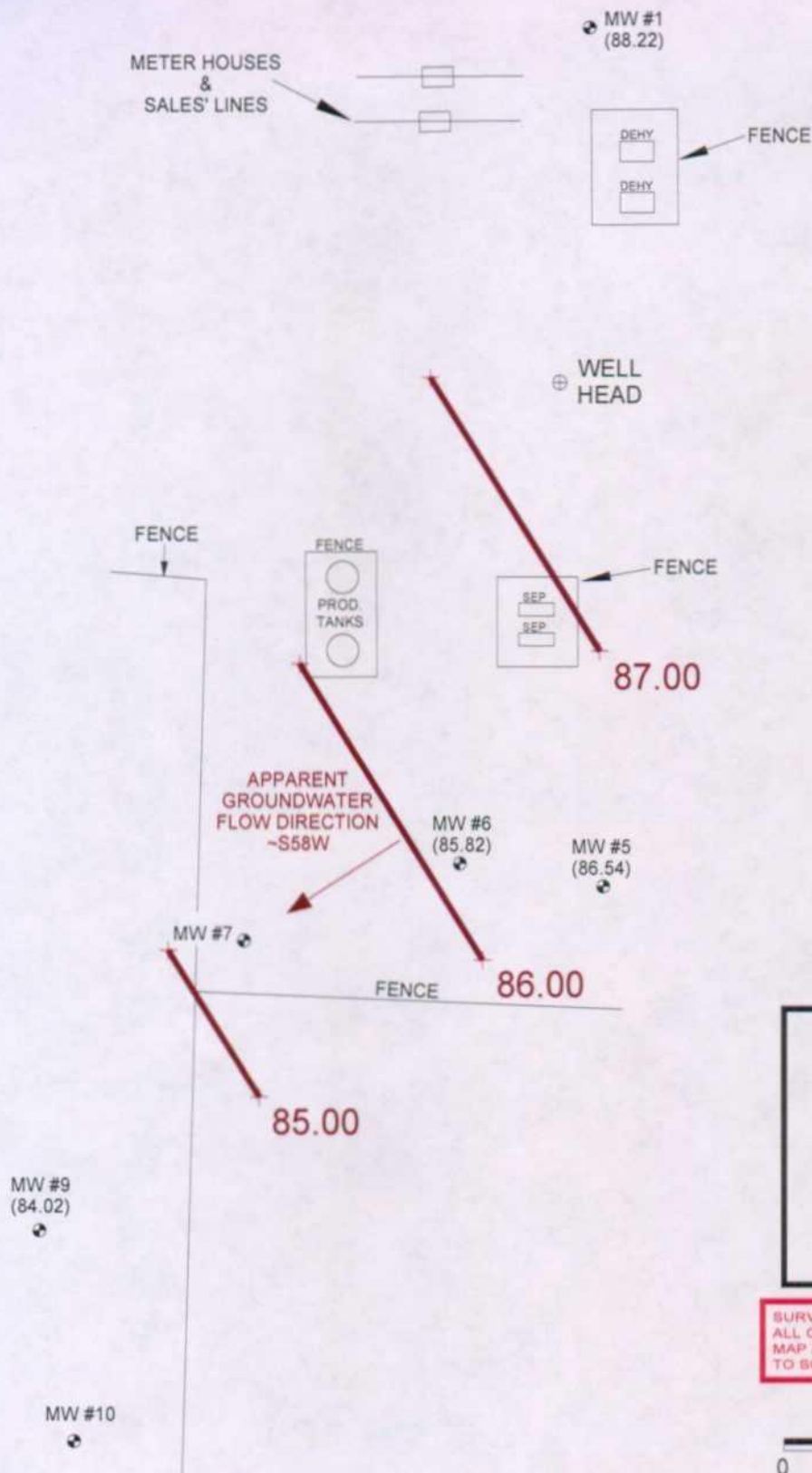
DRAWN BY: NJV

FILENAME: 06-26-00-GW.SKF

REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT
MAP**
06/00

FIGURE 3
(1st 1/4, 2001)



Top of Well Elevation	
MW #1	(102.56)
MW #5	(100.08)
MW #6	(101.09)
MW #7	(99.59)
MW #9	(92.59)
Groundwater Elevation as of 3/20/01.	
MW #1 (88.22)	

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH.
ALL OTHER STRUCTURES DISPLAYED ON THE SITE
MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE
TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.

VALDEZ A #1E

SW/4 NE/4 SEC. 24, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 622-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 03-20-01-GW.SKF

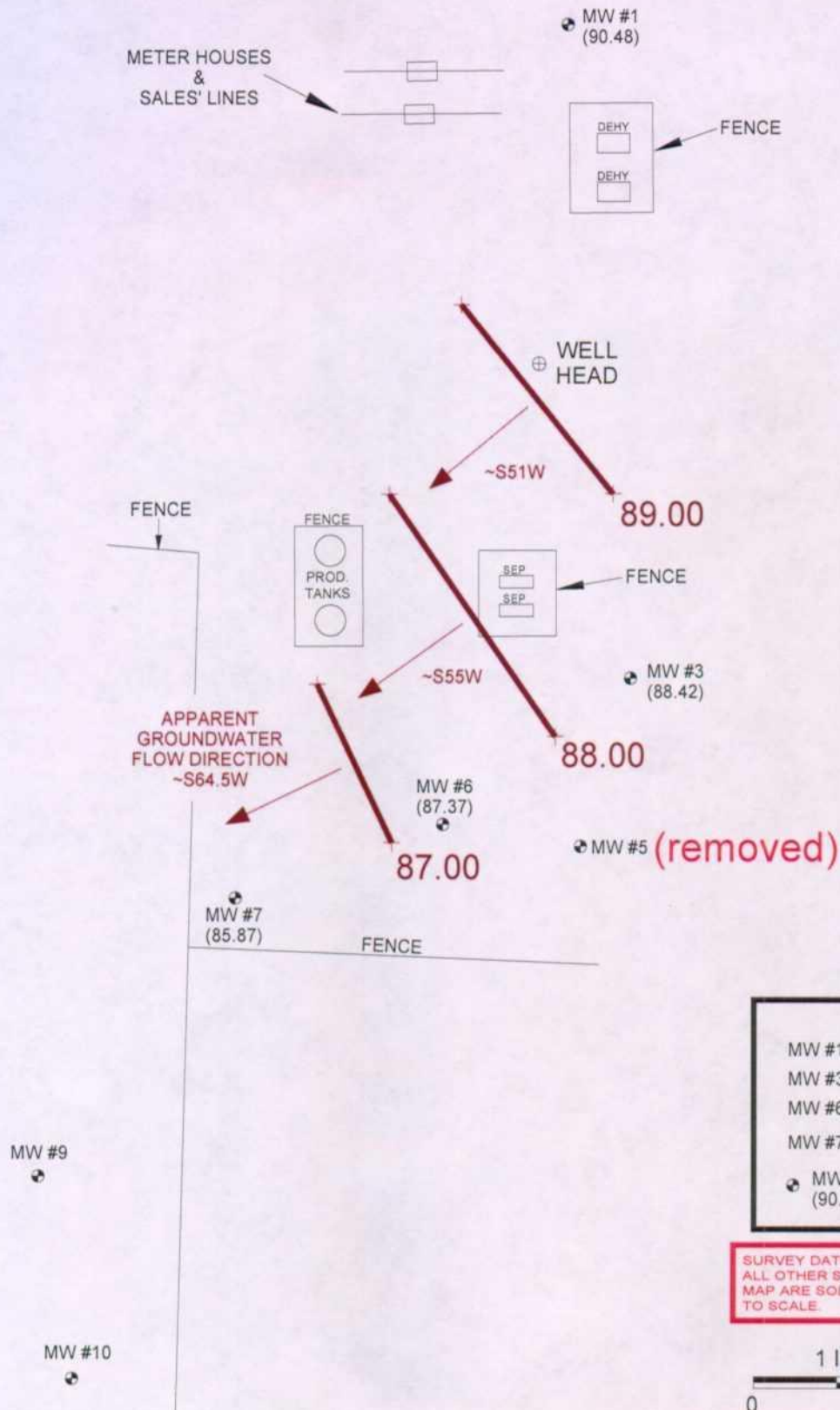
REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT**

MAP

03/01

FIGURE 4
(2nd 1/4, 2002)



Top of Well Elevation	
MW #1	(102.56)
MW #3	(101.06)
MW #6	(101.09)
MW #7	(95.62)
MW #1 (90.48)	Groundwater Elevation as of 6/25/02.

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH. ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.
VALDEZ A #1E

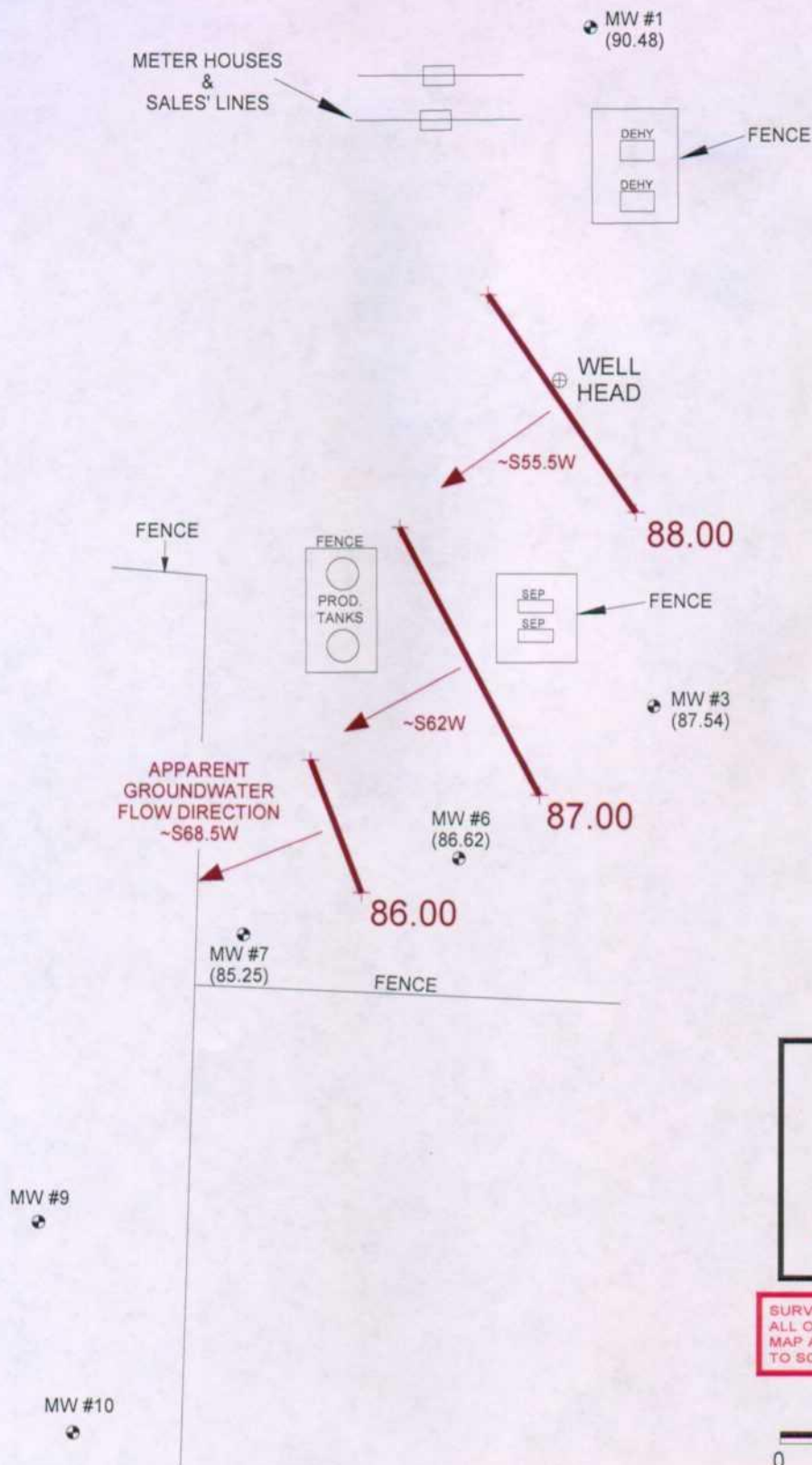
SW/4 NE/4 SEC. 24, T29N, R11W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 06-25-02-GW.SKF
REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT
MAP**
06/02

FIGURE 5
(2nd 1/4, 2003)



Top of Well Elevation	
MW #1	(102.56)
MW #3	(101.06)
MW #6	(101.09)
MW #7	(99.59)
MW #1 (89.15)	Groundwater Elevation as of 5/20/03.

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH.
ALL OTHER STRUCTURES DISPLAYED ON THE SITE
MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE
TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.

VALDEZ A #1E

SW/4 NE/4 SEC. 24, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

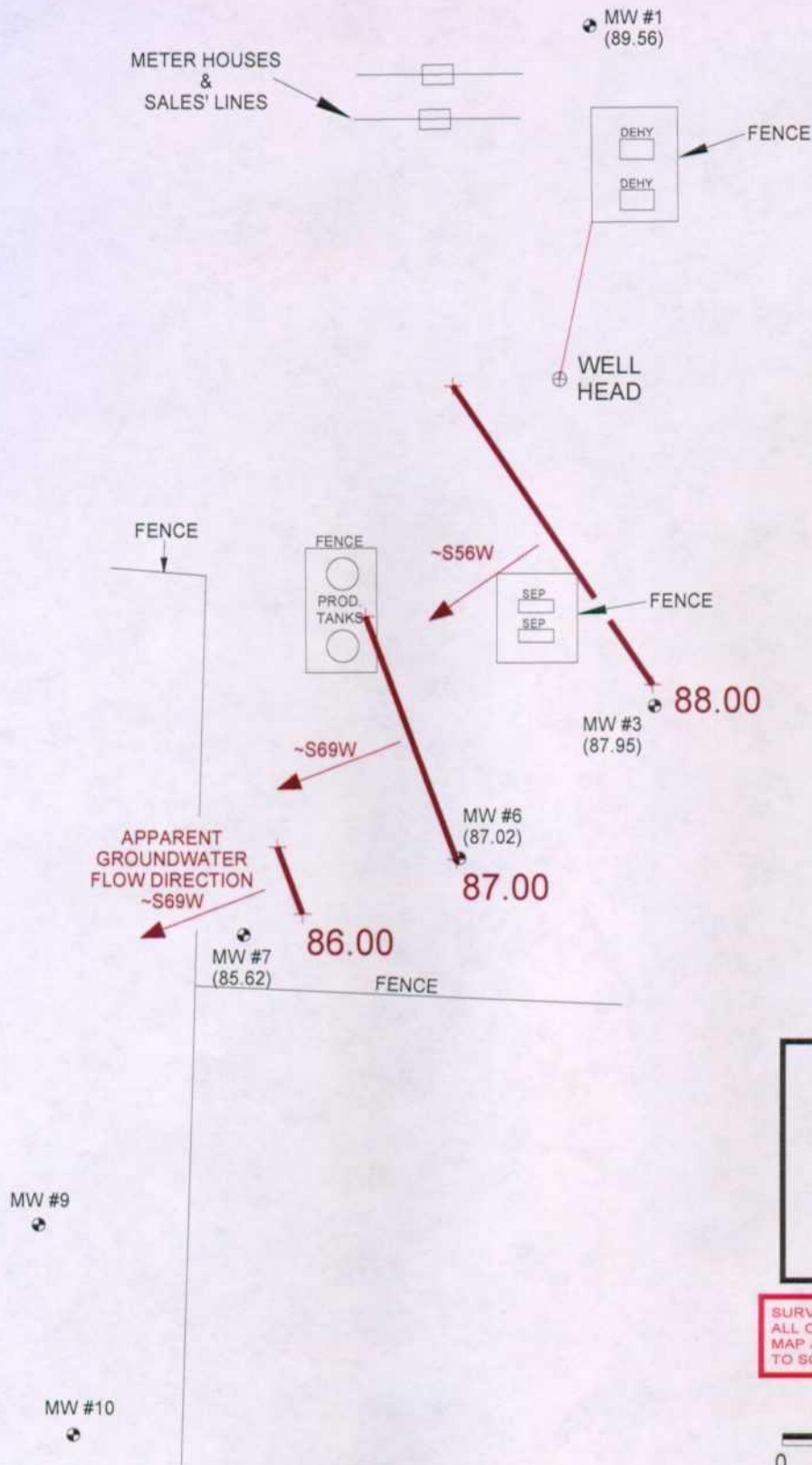
DRAWN BY: NJV

FILENAME: 05-20-03-GW.SKF

REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT
MAP
06/03**

FIGURE 6
(2nd 1/4, 2004)



Top of Well Elevation	
MW #1	(102.56)
MW #3	(101.06)
MW #6	(101.09)
MW #7	(99.59)
MW #1 (89.56)	Groundwater Elevation as of 6/19/04.

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH. ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.
VALDEZ A #1E

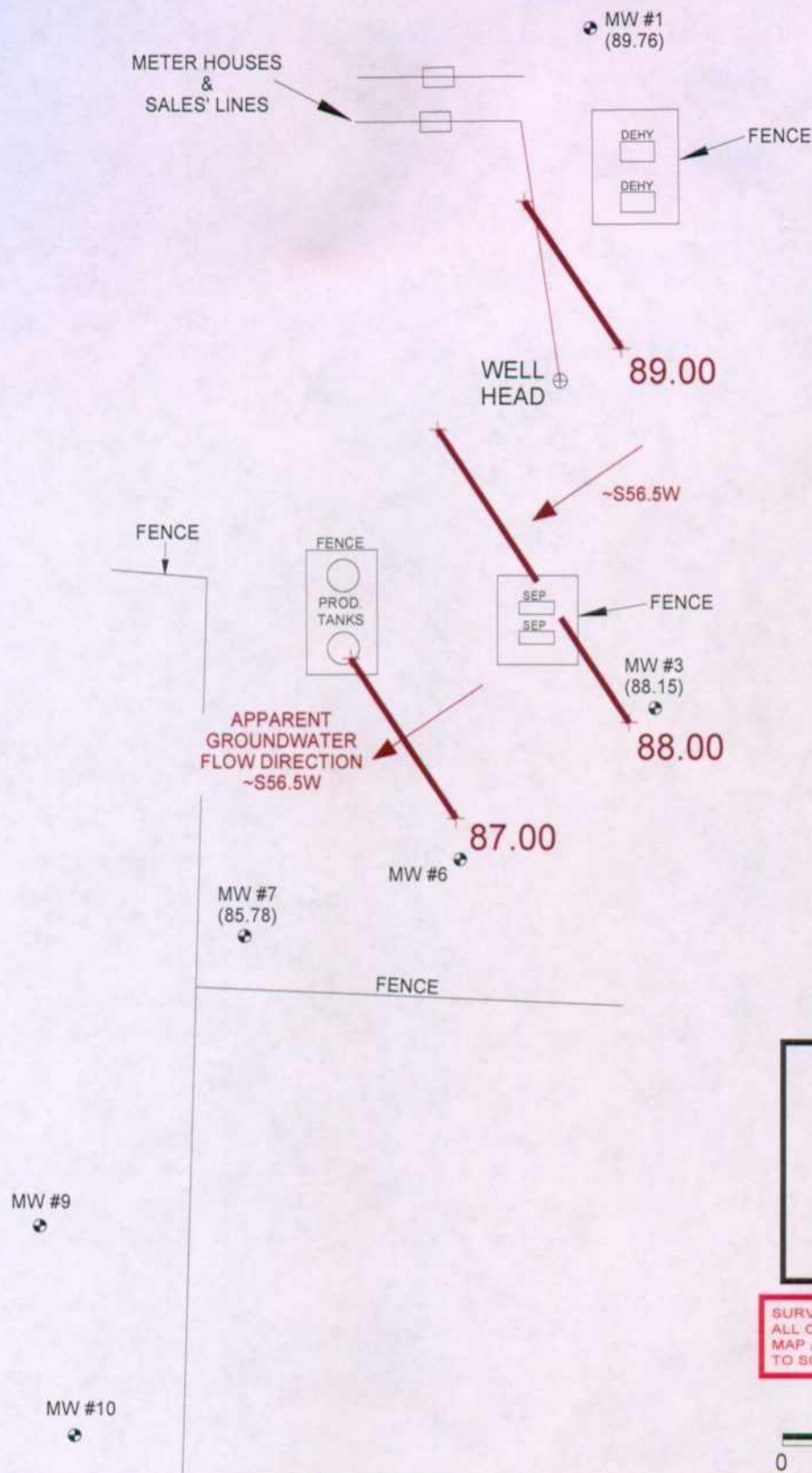
SW/4 NE/4 SEC. 24, T29N, R11W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, Inc.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 06-19-04-GW.SKF
REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT
MAP**
06/04

FIGURE 7
(2nd 1/4, 2005)



Top of Well Elevation		
MW #1	_____	(102.56)
MW #3	_____	(101.06)
MW #6	_____	(101.09)
MW #7	_____	(99.59)
MW #1 (89.76)		Groundwater Elevation as of 6/29/05.

SURVEY DATE RECORDED ON 2-10-93 BY ENVIROTECH. ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 62.5 FEET

0 62.5 125 FT.

XTO ENERGY INC.

VALDEZ A #1E

SW/4 NE/4 SEC. 24, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 06-29-05-GW.SKF

REVISED: 10/13/05 NJV

**GROUNDWATER
GRADIENT
MAP**
06/05

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10602

VALDEZ A #1E

LABORATORY (S) USED : ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date : June 26, 2000SAMPLER : N J VFilename : 06-26-00.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	89.48	13.08	22.78	-	-	-	-	-
5	100.08	87.24	12.84	-	-	-	-	-	-
6	101.09	86.56	14.53	18.35	1105	7.4	1,800	2.00	
7	99.59	85.13	14.46	18.83	1005	7.2	2,200	2.25	-
9	92.59	84.52	8.07	11.08	1030	7.5	2,500	1.50	-

NOTES : Volume of water purged from well prior to sampling; $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (wellbores).

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Collected BTEX samples from MW #'s 6, 7, & 9 .

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 11042

VALDEZ A #1E

LABORATORY (S) USED : ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date : March 20, 2001SAMPLER : N J VFilename : 03-20-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	88.22	14.34	22.78	-	-	-	-	-
5	100.08	86.54	13.54	-	-	-	-	-	-
6	101.09	85.82	15.27	18.35	-	-	-	-	-
7	99.59	84.52	15.07	18.83	-	-	-	-	-
9	92.59	84.02	8.57	11.08	0930	7.3	1,800	0.50	-

NOTES : Volume of water purged from well prior to sampling; $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Fair recovery in MW #9 . Collected BTEX sample from MW # 9 only .

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : XTO ENERGY, INC.CHAIN-OF-CUSTODY # : 11046

VALDEZ A #1E

LABORATORY (S) USED : ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date : May 15, 2001SAMPLER : N J VFilename : 05-15-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	88.79	13.77	20.64	-	-	-	-	-
3	101.06	87.13	13.93	18.35	-	-	-	-	-
5	100.08	86.92	13.16	22.78	-	-	-	-	-
6	101.09	86.18	14.91	18.35	1030	7.32	2,400	1.75	
7	99.59	84.72	14.87	18.83	1100	7.05	2,700	2.00	-

NOTES : Volume of water purged from well prior to sampling; $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Good recovery in MW's 6 & 7 . Collected BTEX samples from MW's 6 & 7 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **11782**

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : **ON - SITE TECH.**

Date : **June 25, 2002**

SAMPLER : **N J V**

Filename : **06-25-02.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56	90.48	12.08	20.64	-	-	-	-	-
3	101.06	88.42	12.64	18.35	-	-	-	-	-
6	101.09	87.37	13.72	18.35	0920	7.51	2,500	2.25	
7	99.59	85.87	13.72	18.83	0955	7.38	2,700	2.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$,
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW's 6 & 7 . Collected BTEX samples from MW's 6 & 7 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : N / A

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : May 20, 2003

SAMPLER : N J V

Filename : 05-20-03.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	89.15	13.41	20.64	-	-	-	-	-
3	101.06	87.54	13.52	18.35	-	-	-	-	-
6	101.09	86.62	14.47	18.35	1055	7.40	1,800	2.00	
7	99.59	85.25	14.34	18.83	1045	7.22	2,000	2.25	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

05/20/03 06:55

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW's 6 & 7. Collected BTEX samples from MW's 6 & 7 only.

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

VALDEZ A #1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

Date : **June 19, 2004**

SAMPLER : **N J V**

Filename : **06-19-04.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56	89.56	13.00	20.64	-	-	-	-	-
3	101.06	87.95	13.11	18.35	-	-	-	-	-
6	101.09	87.02	14.07	18.35	0900	7.07	2,600	17.7	2.25
7	99.59	85.62	13.97	18.83	0910	6.98	2,600	17.7	2.50

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	06/19/04	0800

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW #6 & #7. Collected BTEX samples from MW #6 & #7 only.

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

Date : **Sept. 27, 2004**

SAMPLER : **N J V**

Filename : **09-27-04.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56		-	20.64	-	-	-	-	-
3	101.06		-	18.35	-	-	-	-	-
6			8.27	14.75	1340	7.05	2,300	20.5	3.25
7	99.59		-	18.83	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00	2,800
------	-------

DATE & TIME =

09/27/04	1030
----------	------

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW #6. Collected BTEX sample from MW #6 only.

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

VALDEZ A #1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 29, 2005

SAMPLER : N J V

Filename : 06-29-05.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56	89.76	12.80	20.64	-	-	-	-	-
3	101.06	88.15	12.91	18.35	-	-	-	-	-
6			9.13	14.75	0835	7.11	2,100	16.1	2.75
7	99.59	85.78	13.81	18.83	0825	6.98	2,200	15.0	2.50

INSTRUMENT CALIBRATIONS =

7.00	2,800
DATE & TIME = 06/29/05	0815

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW #6 & #7. Collected BTEX samples from MW #6 & #7 only.

FILE

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

July 26, 2001

Mr. William Olson
New Mexico Oil Conservation Div.
1220 St. Francis Drive
Santa Fe, New Mexico 87504

Re: XTO Energy Inc.
Request for Abandonment of Groundwater Monitor Wells
Valdez A 1E, (G) Sec. 24 - T29N - R11W, San Juan County, NM

Dear Mr. Olson:

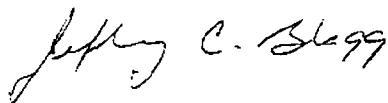
On behalf of XTO Energy Inc., Blagg Engineering, Inc. (BEI) is requesting NMOCD approval to abandon three (3) groundwater monitor wells at the captioned Valdez A 1E well site. There are presently nine (9) groundwater monitor wells installed at the site (see Figure 1). The surface landowner is planning on expanding his alfalfa crop and removal of certain wells will facilitate this expansion. Abandonment will follow standard NMOCD approved procedures.

The wells included in this request for abandonment are as follows:

- Monitor Well MW#2 - Dry since BEI site monitoring beginning May, 1994
- Monitor Well MW#4 - Five (5) consecutive sample events with BTEX within standards between February 23, 1993 and June 24, 1994.
- Monitor Well MW#5 - Five (5) consecutive sample events with BTEX within standards between June 7, 1993 and June 24, 1994.

A summary of monitoring test results for site wells is attached for your review. BEI does not foresee a need to sample the three wells included in this request for abandonment. Other wells in the monitoring system should be adequate to determine groundwater quality and gradient.

Respectfully submitted,
Blagg Engineering, Inc.



Jeffrey C. Blagg, President
NMPE 11607

Attachments: Site Map, lab data summary

cc: Mr. Denny Foust, NMOCD - Aztec
Mr. Terry Matthews, Cross Timbers - Farmington
Mr. Jeff Greider, Landowner - Bloomfield

File: crosstimbers.closure2.xmt



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

January 4, 2002

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO: 7000-1670-0012-5357-8192

Ms. Nina Hutton
XTO Energy, Inc.
810 Houston St., Suite 2000
Fort Worth, Texas 76102-6298

**RE: CASE #3R0134
VALDEZ A#1E WELL SITE
SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed XTO Energy, Inc.'s (XTO) July 26, 2001 "XTO ENERGY INC., REQUEST FOR ABANDONMENT OF GROUNDWATER MONITOR WELLS, VALDEZ A 1E, (G) SEC. 24 - T29N - R11W, SAN JUAN COUNTY, NEW MEXICO" which was submitted on behalf of XTO by their consultant Blagg Engineering, Inc. This document contains XTO's request to close monitor wells MW-2, MW-4 and MW-5 at the Valdez A#1E well site to facilitate surface use of the land for farming by the landowner. The request is based upon 4 consecutive ground water sampling events from each well where contaminant concentrations were below New Mexico Water Quality Control Commission (WQCC) ground water standards.

The above-referenced request is approved. Please be advised that OCD approval does not relieve XTO of responsibility if the monitor well network fails to adequately monitor contamination related to XTO's activities. In addition, OCD approval does not relieve XTO of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Jeff Blagg, Blagg Engineering, Inc.

*Completed
2/1/02*

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : **CROSS TIMBERS OIL CO.**

CHAIN-OF-CUSTODY # : 10602

VALDEZ A # 1E

LABORATORY (S) USED : ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date : June 26, 2000

SAMPLER : NJV

Filename : 06-26-00.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	89.48	13.08	22.78	-	-	-	-	-
5	100.08	87.24	12.84	-	-	-	-	-	-
6	101.09	86.56	14.53	18.35	1105	7.4	1,800	2.00	
7	95.62	81.16	14.46	18.83	1005	7.2	2,200	2.25	-
9	92.59	84.52	8.07	11.08	1030	7.5	2,500	1.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Collected BTEX samples from MW #'s 6, 7, & 9.

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 12-Jul-00

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0006056	Client Sample ID:	MW #6
Lab ID:	0006056-01A	Matrix:	AQUEOUS
Project:	Cross Timbers - Valdez A #1E	Collection Date:	6/26/2000 11:05:00 AM
		COC Record:	10602

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	26	0.5		µg/L	1	6/30/2000
Toluene	2.5	0.5		µg/L	1	6/30/2000
Ethylbenzene	100	2.5		µg/L	5	7/5/2000
m,p-Xylene	530	5		µg/L	5	7/5/2000
o-Xylene	140	2.5		µg/L	5	7/5/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 12-Jul-00

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0006056	Client Sample ID:	MW #7
Lab ID:	0006056-02A	Matrix:	AQUEOUS
Project:	Cross Timbers - Valdez A #1E	Collection Date:	6/26/2000 10:05:00 AM
		COC Record:	10602

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	220	5		µg/L	10	6/30/2000
Toluene	63	5		µg/L	10	6/30/2000
Ethylbenzene	94	5		µg/L	10	6/30/2000
m,p-Xylene	3200	10		µg/L	10	6/30/2000
o-Xylene	880	5		µg/L	10	6/30/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

L - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surrogate

2 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY. BLISS. PEOPLE. TOGETHER WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 12/1/00

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0006056	Client Sample ID:	MW #9
Lab ID:	0006056-03A	Matrix:	AQUEOUS
Project:	Cross Timbers - Valdez A #1E	Collection Date:	6/26/2000 10:30:00 AM
		COC Record:	10602

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	6/30/2000
Toluene	ND	0.5		µg/L	1	6/30/2000
Ethylbenzene	ND	0.5		µg/L	1	6/30/2000
m,p-Xylene	ND	1		µg/L	1	6/30/2000
o-Xylene	ND	0.5		µg/L	1	6/30/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

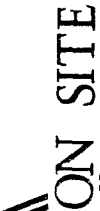
B - Analyte detected in the associated Method Blank

Surrogate

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGIES, LTD. STAYS CLOSE TO THE ENVIRONMENT -



Date:

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Page: _____ of _____

[illegible]

On Site Technologies, LTD.

Date: 12-Jul-00

CLIENT: Blagg Engineering
 Work Order: 0006056
 Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/30/2000	Prep Date:
Client ID:	0006056	Run ID: GC-1_000630A		SeqNo: 29660	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0662	0.5			J
Ethylbenzene	.0926	0.5			J
m,p-Xylene	.1955	1			J
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.1915	0.5			J
Toluene	.2052	0.5			J

Sample ID: MB1	Batch ID: GC-1_000705	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/5/2000	Prep Date:
Client ID:	0006056	Run ID: GC-1_000705A		SeqNo: 29716	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0469	0.5			J
Ethylbenzene	ND	0.5			
m,p-Xylene	.1105	1			J
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.0849	0.5			J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 12-Jul-00

CLIENT: Blagg Engineering
Work Order: 0006056
Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006067-02AMS	Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/30/2000	Prep Date:
Client ID: 0006056	Run ID: GC-1_000630A	PQL	SPK value	SeqNo: 29661	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	6142	50	4000	73	126
Ethylbenzene	4770	50	4000	88	113
m,p-Xylene	10130	100	8000	83	112
Methyl tert-Butyl Ether	4269	100	4000	81	125
o-Xylene	4523	50	4000	93	110
Toluene	6361	50	4000	76	126

Sample ID: 0006067-02AMSD	Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/30/2000	Prep Date:
Client ID: 0006056	Run ID: GC-1_000630A	PQL	SPK value	SeqNo: 29662	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	6030	50	4000	73	126
Ethylbenzene	4686	50	4000	88	113
m,p Xylene	9959	100	8000	83	112
Methyl tert-Butyl Ether	4256	100	4000	81	125
o-Xylene	4455	50	4000	93	110
Toluene	6245	50	4000	76	126

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0006056

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006056-01AMS		Batch ID: GC-1_000705	Test Code: SW8021B	Units: µg/L	Analysis Date 7/5/2000		Prep Date:				
Client ID: MW #6	0006056	Run ID:	GC-1_000705A		SeqNo: 29717						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	227.9	2.5	200	26	101.0%	73	126				
Ethylbenzene	299.6	2.5	200	94	102.8%	88	113				
m,p-Xylene	892.1	5	400	500	98.0%	83	112				
Methyl tert-Butyl Ether	202.4	5	200	0	101.2%	81	125				
o-Xylene	347	2.5	200	140	103.5%	93	110				
Toluene	208.7	2.5	200	2.5	103.1%	76	126				

Sample ID: 0006056-01AMSD		Batch ID: GC-1_000705	Test Code: SW8021B	Units: µg/L	Analysis Date 7/5/2000		Prep Date:					
Client ID: MW #6	0006056	Run ID: GC-1_000705A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	Rt+DLimit	Qual
Analyte	Result											
Benzene	223.9		2.5	200	26	99.0%	73	126	227.9	1.8%	6	
Ethylbenzene	295		2.5	200	94	100.5%	88	113	299.6	1.5%	5	
m,p-Xylene	879.8		5	400	500	94.9%	83	112	892.1	1.4%	7	
Methyl tert-Butyl Ether	204.4		5	200	0	102.2%	81	125	202.4	1.0%	9	
o-Xylene	342.5		2.5	200	140	101.2%	93	110	347	1.3%	6	
Toluene	205.5		2.5	200	2.5	101.5%	76	126	208.7	1.6%	6	

On Site Technologies, LTD.

Date: 12-Jul-00

CLIENT: Blagg Engineering

Work Order: 0006056

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/30/2000	Prep Date:
Client ID: 0006056	Run ID: GC-1_000630A	PQL	SPK value	SeqNo: 29659	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	40.35	0.5	40	89	112
Ethylbenzene	40.86	0.5	40	93	112
m,p-Xylene	77.5	1	80	88	108
Methyl tert-Butyl Ether	40.23	1	40	87	115
o-Xylene	41.16	0.5	40	93	112
Toluene	41.01	0.5	40	92	111
				%REC	%RPD
				100.7%	
				101.9%	
				96.6%	
				100.6%	
				102.4%	
				102.0%	
				RPD Ref Val	RPDLimit
					Qual

Sample ID: LCS WATER	Batch ID: GC-1_000705	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/5/2000	Prep Date:
Client ID: 0006056	Run ID: GC-1_000705A	PQL	SPK value	SeqNo: 29715	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	42.5	0.5	40	89	112
Ethylbenzene	43.3	0.5	40	93	112
m,p-Xylene	82.02	1	80	88	108
Methyl tert-Butyl Ether	42.23	1	40	87	115
o-Xylene	43.47	0.5	40	93	112
Toluene	43.22	0.5	40	92	111
				%REC	%RPD
				106.1%	
				108.3%	
				102.4%	
				105.6%	
				108.7%	
				107.8%	
				RPD Ref Val	RPDLimit
					Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
I' - (I') outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 12-Jul-00

CLIENT: Blagg Engineering

Work Order: 0006056

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date 6/30/2000		Prep Date:
Client ID: 0006056		Run ID: GC-1_000630A	PQL	SPK value	SPK Ref Val	SeqNo: 29656	
Analyte	Result					LowLimit	HighLimit
Benzene	20.74	0.5	0	20	0	85	115
Ethylbenzene	21	0.5	0	20	0	85	115
m,p-Xylene	39.95	1	0	40	0	85	115
Methyl tert-Butyl Ether	20.49	1	0	20	0	85	115
o-Xylene	21.27	0.5	0	20	0	85	115
Toluene	21.05	0.5	0	20	0	85	115
1,4-Difluorobenzene	89.85	0	0	100	0	80	105
4-Bromochlorobenzene	84.68	0	0	100	0	78	108
Fluorobenzene	88.46	0	0	100	0	78	108

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date 6/30/2000		Prep Date:
Client ID: 0006056		Run ID: GC-1_000630A	PQL	SPK value	SPK Ref Val	SeqNo: 29657	
Analyte	Result					LowLimit	HighLimit
Benzene	20.07	0.5	0	20	0	85	115
Ethylbenzene	20.26	0.5	0	20	0	85	115
m,p-Xylene	38.7	1	0	40	0	85	115
Methyl tert-Butyl Ether	20.64	1	0	20	0	85	115
o-Xylene	20.52	0.5	0	20	0	85	115
Toluene	20.42	0.5	0	20	0	85	115
1,4-Difluorobenzene	90.15	0	0	100	0	80	105
4-Bromochlorobenzene	85.09	0	0	100	0	78	108
Fluorobenzene	88.6	0	0	100	0	78	108

Qualifiers: N/A - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006056
Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000630	Test Code: SW8021B	Units: µg/L	Analysis Date 6/30/2000		Prep Date:				
Client ID:		0006056	Run ID:	GC-1_000630A	SeqNo: 29658						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.36	0.5	40	0	100.9%	85	115				
Ethylbenzene	40.66	0.5	40	0	101.7%	85	115				
m,p-Xylene	77.16	1	80	0	96.4%	85	115				
Methyl tert-Butyl Ether	41.35	1	40	0	103.4%	85	115				
o-Xylene	41.21	0.5	40	0	103.0%	85	115				
Toluene	40.98	0.5	40	0	102.4%	85	115				
1,4-Difluorobenzene	89.84	0	100	0	89.8%	80	105				
4-Bromochlorobenzene	85.42	0	100	0	85.4%	78	108				
Fluorobenzene	87.99	0	100	0	88.0%	78	108				

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000705		Test Code: SW8021B		Units: µg/L		Analysis Date 7/5/2000		Prep Date:	
Client ID:		0006056		Run ID:		GC-1_000705A		SeqNo: 29712			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene:	20.52	0.5	20	0	102.6%	85	115				
Ethylbenzene	20.95	0.5	20	0	104.7%	85	115				
m,p-Xylene	39.92	1	40	0	99.8%	85	115				
Methyl tert-Butyl Ether	20.47	1	20	0	102.4%	85	115				
o-Xylene	21.07	0.5	20	0	105.3%	85	115				
Toluene	20.88	0.5	20	0	104.4%	85	115				
1,4-Difluorobenzene	89.92	0	100	0	89.9%	80	105				
4-Bromochlorobenzene	85.7	0	100	0	85.7%	78	108				
Fluorobenzene	88.5	0	100	0	88.5%	78	108				

Qualifier: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006056
Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000705	Test Code: SW8021B		Units: µg/L		Analysis Date: 7/5/2000		Prep Date:			
Client ID: 0006056		Run ID: GC-1_000705A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	19.74		0.5	20	0	98.7%	85	115				
Ethylbenzene	20		0.5	20	0	100.0%	85	115				
m,p-Xylene	38.14		1	40	0	95.3%	85	115				
Methyl tert-Butyl Ether	20.63		1	20	0	103.1%	85	115				
o-Xylene	20.26		0.5	20	0	101.3%	85	115				
Toluene	20.05		0.5	20	0	100.2%	85	115				
1,4-Difluorobenzene	90.14		0	100	0	90.1%	80	105				
4-Bromochlorobenzene	83.65		0	100	0	83.7%	78	108				
Fluorobenzene	88.53		0	100	0	88.5%	78	108				

Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000705	Test Code: SW8021B		Units: µg/L		Analysis Date: 7/5/2000		Prep Date:			
Client ID: 0006056		Run ID: GC-1_000705A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	40.01		0.5	40	0	100.0%	85	115				
Ethylbenzene	40.66		0.5	40	0	101.6%	85	115				
m,p-Xylene	76.88		1	80	0	96.1%	85	115				
Methyl tert-Butyl Ether	41		1	40	0	102.5%	85	115				
o-Xylene	41.1		0.5	40	0	102.8%	85	115				
Toluene	40.66		0.5	40	0	101.7%	85	115				
1,4-Difluorobenzene	89.53		0	100	0	89.5%	80	105				
4-Bromochlorobenzene	85.63		0	100	0	85.6%	78	108				
Fluorobenzene	88.04		0	100	0	88.0%	78	108				

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006056
Project: Cross Timbers - Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006050-18A	90.2	82.4	89.6
0006054-02A	90.3	85	89.2
0006055-01A	90.7	83.9	89.4
0006055-02A	90.5	85	89.2
0006056-01A	89.6	82.8	88.9
0006056-01AMS	88.9	84.8	87.8
0006056-01AMSD	89.1	84.4	88
0006056-02A	87.4	83	86.9
0006056-03A	90.4	85	89.4
0006061-01A	91	85.2	89.2
0006061-02A	88.8	84	87
0006061-03A	88.5	87	87.4
0006061-04A	90.6	85	89.2
0006061-05A	90.6	84.7	89.1
0006067-01A	90.4	83.8	89.1
0006067-02A	89.6	85	88.6
0006067-02AMS	89.5	85.6	87.8
0006067-02AMSD	89.5	85.7	87.7
0006067-03A	89.8	84.6	89.2
0006068-01A	88.2	80.3	89.8
0006068-02A	89.3	85.2	87.3
0006068-03A	84.3	80.2	83.1
0006071-01A	90.7	83.4	89.1
0006072-01A	90.1	84.6	89.5
0006072-05A	90.1	83.2	89.3
0006072-07A	90.3	84.1	89.2
0006072-08A	90.5	84.2	89.5

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0006056
Project: Cross Timbers - Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006072-09A	88.4	85.6	88.7
0006072-10A	89.4	84	95.2
0006072-11A	94.5	84.6	91.4
0006072-15A	90.2	85.3	89.4
0006072-17A	90.4	85.3	89.2
0006072-18A	90.2	85	89.2
0006072-28A	89.4	83.9	89.1
0006072-31A	90.2	84.7	89.5
CCV1 BTEX_00040	89.9	85.7	88.5
CCV2 BTEX_00040	90.1	83.6	88.5
CCV3 BTEX_00040	89.5	85.6	88
LCS WATER	89.4	85.3	88.4
MBI	90.5	84.8	89.4

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT: **CROSS TIMBERS OIL CO.**

CHAIN-OF-CUSTODY #: 11042

VALDEZ A # 1E

LABORATORY (S) USED: ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date: March 20, 2001

SAMPLER: N J V

Filename: 03-20-01.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	88.22	14.34	22.78	-	-	-	-	-
5	100.08	86.54	13.54	-	-	-	-	-	-
6	101.09	85.82	15.27	18.35	-	-	-	-	-
7	95.62	80.55	15.07	18.83	-	-	-	-	-
9	92.59	84.02	8.57	11.08	0930	7.3	1,800	0.50	-

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2."Fair recovery in MW # 9 . Collected BTEX sample from MW # 9 only .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

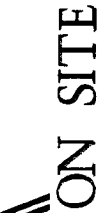
Date: 23-Mar-01

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0103021	Client Sample ID:	MW #9
Lab ID:	0103021-01A	Matrix:	AQUEOUS
Project:	Cross Timbers - Valdez A #1E	Collection Date:	3/20/2001 9:30:00 AM
		COC Record:	11042

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	3/21/2001
Toluene	ND	0.5		µg/L	1	3/21/2001
Ethylbenzene	ND	0.5		µg/L	1	3/21/2001
m,p-Xylene	ND	1		µg/L	1	3/21/2001
o-Xylene	ND	0.5		µg/L	1	3/21/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1



Date:

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Page: _____ of _____

[illegible]

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering

Work Order: 0103021

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001	Prep Date:						
Client ID:	0103021	Run ID: GC-1_010321A		SeqNo: 35873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.0794	0.5									J
m,p-Xylene	.5522	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	.1977	0.5									J
Toluene	.154	0.5									J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering

Work Order: 0103021

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0103008-01AMS		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103021		Run ID: GC-1_010321A				SeqNo: 35874			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1070	5	400	710	90.1%	84	111				
Ethylbenzene	733.1	5	400	320	103.3%	84	111				
m,p-Xylene	1386	10	800	560	103.2%	84	108				
Methyl tert-Butyl Ether	444.8	10	400	110	83.7%	80	117				
o-Xylene	517.8	5	400	110	102.0%	89	107				
Toluene	468.4	5	400	54	103.6%	90	107				

Sample ID: 0103008-01AMS		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103021		Run ID: GC-1_010321A				SeqNo: 35875			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1064	5	400	710	88.6%	84	111	1070	0.6%	8	
Ethylbenzene	709.4	5	400	320	97.3%	84	111	733.1	3.3%	7	
m,p-Xylene	1343	10	800	560	97.9%	84	108	1386	3.1%	7	
Methyl tert-Butyl Ether	449.2	10	400	110	84.8%	80	117	444.8	1.0%	6	
o-Xylene	502.9	5	400	110	98.2%	89	107	517.8	2.9%	6	
Toluene	449.4	5	400	54	98.8%	90	107	468.4	4.2%	6	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering

Work Order: 0103021

Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010321	Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:		
Client ID:		0103021	Run ID:	GC-1_010321A		SeqNo: 35872					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.67	0.5	40	0	99.2%	92	109				
Ethylbenzene	41.4	0.5	40	0.0794	103.3%	92	112				
m,p-Xylene	82.98	1	80	0.5522	103.0%	91	108				
Methyl tert-Butyl Ether	40.98	1	40	0	102.4%	89	116				
o-Xylene	41.51	0.5	40	0.1977	103.3%	93	109				
Toluene	40.7	0.5	40	0.154	101.4%	93	108				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103021
Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L		Analysis Date 3/21/2001		Prep Date:					
Client ID:	0103021	Run ID:	GC-1_010321A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	20.15			0.5	20	0	100.7%	85	115				
Ethylbenzene	21.03			0.5	20	0	105.2%	85	115				
m,p-Xylene	42.36			1	40	0	105.9%	85	115				
Methyl tert-Butyl Ether	19.21			1	20	0	96.1%	85	115				
o-Xylene	21.15			0.5	20	0	105.8%	85	115				
Toluene	20.66			0.5	20	0	103.3%	85	115				
1,4-Difluorobenzene	78.38			0	80	0	98.0%	85	103				
4-Bromochlorobenzene	77.29			0	80	0	96.6%	93	108				
Fluorobenzene	78.25			0	80	0	97.8%	88	103				

Sample ID: CCV2 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L		Analysis Date 3/21/2001		Prep Date:					
Client ID:	0103021	Run ID:	GC-1_010321A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	19.36			0.5	20	0	96.8%	85	115				
Ethylbenzene	20.17			0.5	20	0	100.8%	85	115				
m,p-Xylene	40.64			1	40	0	101.6%	85	115				
Methyl tert-Butyl Ether	17.97			1	20	0	89.8%	85	115				
o-Xylene	20.4			0.5	20	0	102.0%	85	115				
Toluene	19.89			0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	78.33			0	80	0	97.9%	85	103				
4-Bromochlorobenzene	76.34			0	80	0	95.4%	93	108				
Fluorobenzene	78.14			0	80	0	97.7%	88	103				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0103021
Project: Cross Timbers - Valdez A #1E

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0103	Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001		Prep Date:					
Client ID:	0103021	Run ID: GC-1_010321A		SeqNo: 35871							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.51	0.5	40	0	96.3%	85	115				
Ethylbenzene	39.82	0.5	40	0	99.5%	85	115				
m,p-Xylene	79.8	1	80	0	99.7%	85	115				
Methyl tert-Butyl Ether	38.07	1	40	0	95.2%	85	115				
o-Xylene	40.31	0.5	40	0	100.8%	85	115				
Toluene	39.43	0.5	40	0	98.6%	85	115				
1,4-Difluorobenzene	78.66	0	80	0	98.3%	85	103				
4-Bromochlorobenzene	75.38	0	80	0	94.2%	93	108				
Fluorobenzene	77.44	0	80	0	96.8%	88	103				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0103021
Project: Cross Timbers - Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0103008-01A	95.3	96.8	95.2
0103008-01AMS	95.3	99.7	95
0103008-01AMSD	95.4	97.3	94.6
0103011-01A	97.9	99.2	96.6
0103015-01A	88.2	87.7 *	95.6
0103015-02A	98.5	97.7	98.5
0103017-01A	93.4	92.3 *	94
0103018-01A	96.7	95.6	95.8
0103019-01A	99.2	97.3	98.2
0103020-01A	96.4	91.7 *	96.4
0103020-02A	94.7	93.7	93.8
0103020-03A	98.9	96.6	97.8
0103021-01A	99	98.4	97.9
0103022-01A	99.3	97.7	98
0103022-02A	98.4	95.8	97.8
0103022-03A	96.1	93.4	99.2
0103023-06A	107 *	96.2	101
0103028-01A	98.3	95.6	98.8
CCV1 BTEX_01030	98	96.6	97.8
CCV2 BTEX_01030	97.9	95.4	97.7
CCV3 BTEX_01030	98.3	94.2	96.8
LCS WATER	97.3	97.4	97
MBI	98.7	96.7	98.3

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	85-103
4BCBZ	= 4-Bromochlorobenzene	93-108
FLBZ	= Fluorobenzene	88-103

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OPER. CO.CHAIN-OF-CUSTODY # : 11046

VALDEZ A # 1E

LABORATORY (S) USED : ON - SITE TECH.

UNIT G, SEC. 24, T29N, R11W

Date : May 15, 2001SAMPLER : N J VFilename : 05-15-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	88.79	13.77	20.64	-	-	-	-	-
3	101.06	87.13	13.93	18.35	-	-	-	-	-
5	100.08	86.92	13.16	22.78	-	-	-	-	-
6	101.09	86.18	14.91	18.35	1030	7.32	2,400	1.75	
7	99.59	84.72	14.87	18.83	1100	7.05	2,700	2.00	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Good recovery in MW 's 6 & 7 . Collected BTEX samples from MW 's 6 & 7 only .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 31-May-01

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0105021	Client Sample ID:	MW #6
Lab ID:	0105021-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Valdez A #1E	Collection Date:	5/15/2001 10:30:00 AM
		COC Record:	11046

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	13	0.5		µg/L	1	5/25/2001
Toluene	0.5	0.5		µg/L	1	5/25/2001
Ethylbenzene	74	0.5		µg/L	1	5/25/2001
m,p-Xylene	390	5		µg/L	5	5/26/2001
o-Xylene	100	0.5		µg/L	1	5/25/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING US WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 31-May-01

Client:	Blagg Engineering	Client Sample Info:	Valdez A #1E
Work Order:	0105021	Client Sample ID:	MW #7
Lab ID:	0105021-02A	Matrix:	AQUEOUS
Project:	Cross Timbers; Valdez A #1E	Collection Date:	5/15/2001 11:00:00 AM
		COC Record:	11046

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	190	5		µg/L	10	5/25/2001
Toluene	ND	5		µg/L	10	5/25/2001
Ethylbenzene	76	5		µg/L	10	5/25/2001
m,p-Xylene	700	10		µg/L	10	5/25/2001
o-Xylene	180	5		µg/L	10	5/25/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

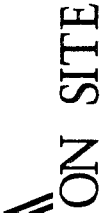
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Page: _____ of _____

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date 5/25/2001	Prep Date:						
Client ID:	0105021	Run ID: GC-1_010525A		SeqNo: 38387							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.1226	0.5									J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0105046-22AMS		Batch ID: GC-1_010525		Test Code: SW8021B		Units: µg/L		Analysis Date 5/25/2001		Prep Date:	
Client ID:		0105021		Run ID: GC-1_010525A				SeqNo: 38388			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3307	25	2000	1485	91.1%	70	130				
Ethylbenzene	2010	25	2000	379.4	81.5%	70	130				
m,p-Xylene	3691	50	4000	493	80.0%	70	130				
Methyl tert-Butyl Ether	4418	50	2000	2497	96.0%	70	130				
o-Xylene	1869	25	2000	55.85	90.7%	70	130				
Toluene	1904	25	2000	50.74	92.6%	70	130				

Sample ID: 0105046-22AMSD		Batch ID: GC-1_010525		Test Code: SW8021B		Units: µg/L		Analysis Date 5/25/2001			Prep Date:			
Client ID: 0105021		Run ID: GC-1_010525A		PQL		SPK value		SeqNo: 38389						
Analyte	Result							%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3315	25		2000		1485		91.5%	70	130	3307	0.3%	8	
	1970	25		2000		379.4		79.5%	70	130	2010	2.0%	7	
	3583	50		4000		493		77.2%	70	130	3691	3.0%	7	
Methyl tert-Butyl Ether	4510	50		2000		2497		100.7%	70	130	4418	2.1%	6	
	1846	25		2000		55.85		89.5%	70	130	1869	1.3%	6	
Toluene	1871	25		2000		50.74		91.0%	70	130	1904	1.7%	6	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L		Analysis Date 5/25/2001		Prep Date:				
Client ID: 0105021		Run ID: GC-1_010525A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	39.07	0.5	40	0	97.7%	80	120					
Ethylbenzene	39.1	0.5	40	0	97.8%	80	120					
m,p-Xylene	75	1	80	0	93.8%	80	120					
Methyl tert-Butyl Ether	40.74	1	40	0	101.9%	80	120					
o-Xylene	38.59	0.5	40	0	96.5%	80	120					
Toluene	38.58	0.5	40	0.1226	96.2%	80	120					

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010525		Test Code: SW8021B		Units: µg/L		Analysis Date 5/25/2001			Prep Date:	
Client ID:		0105021		Run ID:		GC-1_010525A		SeqNo: 38383				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	20.01	0.5	20	0	100.0%	85	115					
Ethylbenzene	20.02	0.5	20	0	100.1%	85	115					
m,p-Xylene	38.51	1	40	0	96.3%	85	115					
Methyl tert-Butyl Ether	20.81	1	20	0	104.0%	85	115					
o-Xylene	19.68	0.5	20	0	98.4%	85	115					
Toluene	19.74	0.5	20	0	98.7%	85	115					
1,4-Difluorobenzene	75.57	0	80	0	94.5%	70	130					
4-Bromochlorobenzene	81.98	0	80	0	102.5%	70	130					
Fluorobenzene	76.25	0	80	0	95.3%	70	130					

Sample ID: CCV2 BTEX_0105		Batch ID: GC-1_010525		Test Code: SW8021B		Units: µg/L		Analysis Date 5/25/2001		Prep Date:	
Client ID:		0105021		Run ID:		GC-1_010525A		SeqNo: 38384			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.46	0.5	40	0	98.6%	85	115				
Ethylbenzene	39.46	0.5	40	0	98.7%	85	115				
m,p-Xylene	75.89	1	80	0	94.9%	85	115				
Methyl tert-Butyl Ether	42.02	1	40	0	105.0%	85	115				
o-Xylene	39.02	0.5	40	0	97.5%	85	115				
Toluene	39.1	0.5	40	0	97.8%	85	115				
1,4-Difluorobenzene	74.46	0	80	0	93.1%	70	130				
4-Bromochlorobenzene	79.65	0	80	0	99.6%	70	130				
Fluorobenzene	76.07	0	80	0	95.1%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0105021

Project: Cross Timbers; Valdez A #1E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0105		Batch ID: GC-1_010525		Test Code: SW8021B		Units: µg/L		Analysis Date 5/25/2001		Prep Date:	
Client ID:		0105021		Run ID: GC-1_010525A				SeqNo: 38385			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.78	0.5	20	0	98.9%	85	115				
Ethylbenzene	19.68	0.5	20	0	98.4%	85	115				
m,p-Xylene	37.77	1	40	0	94.4%	85	115				
Methyl tert-Butyl Ether	20.7	1	20	0	103.5%	85	115				
o-Xylene	19.38	0.5	20	0	96.9%	85	115				
Toluene	19.43	0.5	20	0	97.1%	85	115				
1,4-Difluorobenzene	75.02	0	80	0	93.8%	70	130				
4-Bromochlorobenzene	83	0	80	0	103.8%	70	130				
Fluorobenzene	76.55	0	80	0	95.7%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105019-19A	93.8	101	94.7
0105019-20A	94.8	98.7	96.1
0105019-21A	94.5	98.9	95.8
0105019-22A	95	101	96
0105021-01A	91.4	94.7	93.2
0105021-01AMS	91	93	92.3
0105021-01AMSD	90.8	92.6	91.7
0105021-02A	89.4	98.9	92.3
0105022-01A	91.3	98.2	93.1
0105022-02A	93.2	100	94.3
0105023-01A	95.2	99.2	96.4
0105023-02A	93.9	93.4	95.4
0105024-01A	92.4	101	94.3
0105024-02A	87	94.2	88.9
0105024-03A	94.3	100	96.1
0105046-01A	94.3	93.5	96.1
0105046-02A	95.3	97.3	100
0105046-03A	101	101	95.8
0105046-04A	94.8	93.6	98.4
0105046-05A	91.9	90.6	94
0105046-06A	91.9	93.4	93.2
0105046-07A	94.8	102	96.8
0105046-08A	94.3	102	96.2
0105046-09A	95.4	101	96.3
0105046-10A	95.2	104	96.6
0105046-11A	95.4	101	95.9
0105046-12A	95	101	111

Acronym**Surrogate****QC Limits**

14FBZ

= 1,4-Difluorobenzene

70-130

4BCBZ

= 4-Bromochlorobenzene

70-130

FLBZ

= Fluorobenzene

70-130

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0105021
Project: Cross Timbers; Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105046-13A	94.7	99.9	101
0105046-18A	93.2	101	94.9
0105046-20A	91.5	95.2	92.6
0105046-21A	93.8	96.5	95.2
0105046-22A	95.1	102	98.1
0105046-22AMS	93.4	115	94.9
0105046-22AMSD	93	106	95.1
0105046-31A	95.3	102	96.1
0105046-32A	94.3	100	95.6
CCV1 BTEX_01052	94.1	101	95.2
CCV2 BTEX_01052	93.6	91.2	94.3
CCV3 BTEX_01052	93.4	102	95.2
LCS WATER	93.6	103	94.7
MB1	94.1	103	95.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : 11782

VALDEZ A # 1E

UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.

Date : June 25, 2002

SAMPLER : N J V

Filename : 06-25-02.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING	pH TIME	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	90.48	12.08	20.64	-	-	-	-	-
3	101.06	88.42	12.64	18.35	-	-	-	-	-
6	101.09	87.37	13.72	18.35	0920	7.51	2,500	2.25	
7	99.59	85.87	13.72	18.83	0955	7.38	2,700	2.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW's 6 & 7 . Collected BTEX samples from MW's 6 & 7 only .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 10-Jul-02

Client:	Blagg Engineering	Client Sample Info:	XTO - Valdez A #1E
Work Order:	0206049	Client Sample ID:	MW #6
Lab ID:	0206049-01A	Matrix:	AQUEOUS
Project:	XTO - Valdez A #1E	Collection Date:	06/25/2002 9:20:00 AM
		COC Record:	11782

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	20	2.5		µg/L	5	06/27/2002
Toluene	ND	2.5		µg/L	5	06/27/2002
Ethylbenzene	200	2.5		µg/L	5	06/27/2002
m,p-Xylene	1400	5		µg/L	5	06/27/2002
o-Xylene	340	2.5		µg/L	5	06/27/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above quantitation range

Surr: - Surrogate

1 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY. ENVIRONMENTAL. WITH THE FUTURE IN MIND -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 10-Jul-02

Client:	Blagg Engineering	Client Sample Info:	XTO - Valdez A #1E
Work Order:	0206049	Client Sample ID:	MW #7
Lab ID:	0206049-02A	Matrix:	AQUEOUS
Project:	XTO - Valdez A #1E	Collection Date:	06/25/2002 9:55:00 AM
		COC Record:	11782

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	92	2.5		µg/L	5	06/27/2002
Toluene	14	2.5		µg/L	5	06/27/2002
Ethylbenzene	32	2.5		µg/L	5	06/27/2002
m,p-Xylene	220	5		µg/L	5	06/27/2002
o-Xylene	44	2.5		µg/L	5	06/27/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above quantitation range

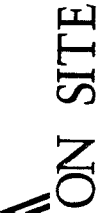
Surrogate - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



1990

Page: _____ of _____

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

[illegible]

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206049
Project: XTO - Valdez A #1E

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID:		0206049		Run ID:		GC-1_020627A		SeqNo: 52887			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.1054	0.5									J
1,4-Difluorobenzene	107.6	0									
4-Bromochlorobenzene	118.6	0									
Fluorobenzene	109.7	0									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206049
Project: XTO - Valdez A #1E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0206041-01AMS		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID: 0206049		Run ID: GC-1_020627A		SeqNo: 52888							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1171	5	400	769.1	100.6%	70	130				
Ethylbenzene	763.9	5	400	352.2	102.9%	70	130				
m,p-Xylene	1554	10	800	774.5	97.4%	70	130				
Methyl tert-Butyl Ether	601.3	10	400	205	99.1%	70	130				
o-Xylene	474.6	5	400	88.25	96.6%	70	130				
Toluene	597.6	5	400	204.9	98.2%	70	130				
1,4-Difluorobenzene	1065	0	1100	0	96.8%	70	130				
4-Bromochlorobenzene	1210	0	1100	0	110.0%	70	130				
Fluorobenzene	1087	0	1100	0	98.8%	70	130				

Sample ID: 0206041-01AMS		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID: 0206049		Run ID: GC-1_020627A		SeqNo: 52889							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1127	5	400	769.1	89.6%	70	130	1171	3.8%	15	
Ethylbenzene	735.7	5	400	352.2	95.9%	70	130	763.9	3.8%	15	
m,p-Xylene	1498	10	800	774.5	90.5%	70	130	1554	3.6%	15	
Methyl tert-Butyl Ether	591.9	10	400	205	96.7%	70	130	601.3	1.6%	15	
o-Xylene	460.1	5	400	88.25	93.0%	70	130	474.6	3.1%	15	
Toluene	574.8	5	400	204.9	92.5%	70	130	597.6	3.9%	15	
1,4-Difluorobenzene	1054	0	1100	0	95.9%	70	130	0	0.0%	0	
4-Bromochlorobenzene	1208	0	1100	0	109.8%	70	130	0	0.0%	0	
Fluorobenzene	1084	0	1100	0	98.5%	70	130	0	0.0%	0	

Qualifiers: NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
 Work Order: 0206049
 Project: XTO - Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002		Prep Date: 06/27/2002					
Client ID:	0206049	Run ID:	GC-1_020627A	SeqNo:	52886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.85	0.5	40	0	97.1%	80	120				
Ethylbenzene	39.46	0.5	40	0	98.7%	80	120				
m,p-Xylene	78.4	1	80	0	98.0%	80	120				
Methyl tert-Butyl Ether	39.58	1	40	0	99.0%	80	120				
o-Xylene	38.05	0.5	40	0	95.1%	80	120				
Toluene	37.88	0.5	40	0.1054	94.4%	80	120				
1,4-Difluorobenzene	106.6	0	110	0	97.0%	70	130				
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130				
Fluorobenzene	108.9	0	110	0	99.0%	70	130				

Qualifiers: NID - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
Work Order: 0206049
Project: XTO - Valdez A #1E

Sample ID: CCV1_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002			Prep Date: 06/27/2002		
Client ID:		0206049		Run ID:		GC-1_020627A		SeqNo: 52883					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	20.08	0.5	20	0	100.4%	85	115						
Ethylbenzene	20.33	0.5	20	0	101.6%	85	115						
m,p-Xylene	40.7	1	40	0	101.7%	85	115						
Methyl tert-Butyl Ether	19.9	1	20	0	99.5%	85	115						
o-Xylene	19.56	0.5	20	0	97.8%	85	115						
Toluene	19.51	0.5	20	0	97.5%	85	115						
1,4-Difluorobenzene	106.7	0	110	0	97.0%	70	130						
4-Bromochlorobenzene	117.7	0	110	0	107.0%	70	130						
Fluorobenzene	109.6	0	110	0	99.6%	70	130						

Sample ID: CCV2_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002				Prep Date: 06/27/2002					
Client ID:	0206049	Run ID:	GC-1_020627A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	19.17			0.5	20	0	95.9%	85	115				
Ethylbenzene	19.37			0.5	20	0	96.9%	85	115				
m,p-Xylene	38.18			1	40	0	95.4%	85	115				
Methyl tert-Butyl Ether	18.95			1	20	0	94.7%	85	115				
o-Xylene	18.69			0.5	20	0	93.5%	85	115				
Toluene	18.54			0.5	20	0	92.7%	85	115				
1,4-Difluorobenzene	109.1			0	110	0	99.2%	70	130				
4-Bromochlorobenzene	123.6			0	110	0	112.4%	70	130				
Fluorobenzene	111.7			0	110	0	101.6%	70	130				

Qualifiers: NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
 Work Order: 0206049
 Project: XTO - Valdez A #1E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID:		0206049		Run ID:		GC-1_020627A		SeqNo: 52885			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.74	0.5	40	0	96.8%	85	115				
Ethylbenzene	38.89	0.5	40	0	97.2%	85	115				
m,p-Xylene	76.38	1	80	0	95.5%	85	115				
Methyl tert-Butyl Ether	38.49	1	40	0	96.2%	85	115				
o-Xylene	37.42	0.5	40	0	93.5%	85	115				
Toluene	37.56	0.5	40	0	93.9%	85	115				
1,4-Difluorobenzene	107.9	0	110	0	98.1%	70	130				
4-Bromochlorobenzene	119.1	0	110	0	108.3%	70	130				
Fluorobenzene	111.5	0	110	0	101.4%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0206049
Project: XTO - Valdez A #1E
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0206028-01A	88	100	105
0206029-01A	99.2	109	102
0206030-01A	90.1	103	102
0206030-03A	96.5	111	100
0206031-02A	98.4	110	102
0206031-04A	92.1	107	95.5
0206039-01A	91.8	112	95.2
0206041-01A	96.6	110	99
0206041-01AMS	96.8	110	98.8
0206041-01AMSD	95.8	110	98.5
0206041-02A	98.1	112	101
0206048-01A	97.7	109	101
0206049-01A	97.6	106	100
0206049-02A	95.9	107	99.7
0206050-02A	99.5	113	102
0206052-01A	96.3	106	100
CCV1_020627	97	107	99.6
V2_020627	99.2	112	102
CCV3_020627	98.1	108	101
LCS_020627	97	109	99
MB_020627	97.8	108	99.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTC ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : May 20, 2003

SAMPLER : N J V

Filename : 05-20-03.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.56	89.15	13.41	20.64	-	-	-	-	-
3	101.06	87.54	13.52	18.35	-	-	-	-	-
6	101.09	86.62	14.47	18.35	1055	7.40	1,800	2.00	
7	99.59	85.25	14.34	18.83	1045	7.22	2,000	2.25	-

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
05/20/03	06:55

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW 's 6 & 7 . Collected BTEX samples from MW 's 6 & 7 only .

Hall Environmental Analysis Laboratory

Date: 27-May-03

CLIENT: Blagg Engineering

Client Sample ID: MW #6

Lab Order: 0305166

Collection Date: 5/20/2003 10:55:00 AM

Project: Valdez A #1E

Lab ID: 0305166-01

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	14	0.50		µg/L	1	5/22/2003 10:55:01 AM
Toluene	1.1	0.50		µg/L	1	5/22/2003 10:55:01 AM
Ethylbenzene	190	5.0		µg/L	10	5/22/2003 2:54:53 PM
Xylenes, Total	1400	5.0		µg/L	10	5/22/2003 2:54:53 PM
Surr: 4-Bromofluorobenzene	102	74-118		%REC	10	5/22/2003 2:54:53 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 27-May-03

CLIENT: Blagg Engineering
Lab Order: 0305166
Project: Valdez A #1E
Lab ID: 0305166-02

Client Sample ID: MW #7
Collection Date: 5/20/2003 10:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	99	2.5		µg/L	5	5/22/2003 3:27:40 PM
Toluene	ND	2.5		µg/L	5	5/22/2003 3:27:40 PM
Ethylbenzene	40	2.5		µg/L	5	5/22/2003 3:27:40 PM
Xylenes, Total	230	2.5		µg/L	5	5/22/2003 3:27:40 PM
Surr: 4-Bromofluorobenzene	102	74-118		%REC	5	5/22/2003 3:27:40 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

HALL ENVIRONMENTAL ANALYTICAL LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

XTC ENERGY INC.

Address: P.O. Box 87

GLAUCIUM NM 87413

Project Manager:

Project Manager: Nelson Velaz

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

Phone #: 505-632-1199

Fax #: 505-632-3903

Date _____ Time _____

Time

Sample I.D. No.

Number/Volume

Preservative

HCl		H ₂ O
H ₂ O		H ₂ O

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

105

22

water

mw # 6

2-40ml

—

anside 1

21-6-3/1042

25

DATE

MD #7

2-4001

✓

12

Date:	Time:
-------	-------

Time:

Relinquished By: (Signature)

Received By: (Signature)

Date:	Time:
-------	-------

Time:

Relinquished By: (Signature)

Received By: (Signature)

ANALYSIS REQUEST

[illegible]

Remarks:

Hall Environmental Analysis Laboratory

Date: 27-May-03

CLIENT: Blagg Engineering
Work Order: 0305166
Project: Valdez A #1E

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R8357	Test Code: SW8021	Units: µg/L	Analysis Date 5/22/2003 9:18:57 AM	Prep Date					
Client ID:			Run ID: PIDHALL_030522A		SeqNo: 189307						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	20.68	0	20	0	103	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 27-May-03

CLIENT: Blagg Engineering
 Work Order: 0305166
 Project: Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID: R8357	Test Code: SW8021	Units: µg/L	Analysis Date	5/22/2003 5:05:51 PM	Prep Date				
Client ID:		Run ID: PIDHALL_030522A			SeqNo:	189343					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.73	0.50	20	0	98.7	81.3	121	0			
Toluene	20.09	0.50	20	0	100	84.9	118	0			
Ethylbenzene	21.44	0.50	20	0	107	53.8	149	0			
Xylenes, Total	56.33	0.50	60	0	93.9	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

5/21/03

Work Order Number **0305166**

Received by **AT**

Checklist completed by

Signature

Date

5/21/03

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Container/Temp Blank temperature?

13° 4° C ± 2 Acceptable

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **PTC ENERGY INC**

CHAIN-OF-CUSTODY # : **N / A**

VALDEZ A # 1E
UNIT G, SEC. 24, T29N, R11W

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

Date : **June 19, 2004**

SAMPLER : **N J V**

Filename : **06-19-04.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56	89.56	13.00	20.64	-	-	-	-	-
3	101.06	87.95	13.11	18.35	-	-	-	-	-
6	101.09	87.02	14.07	18.35	0900	7.07	2,600	17.7	2.25
7	99.59	85.62	13.97	18.83	0910	6.98	2,600	17.7	2.50

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/19/04 0800

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Good recovery in MW # 6 & # 7 . Collected BTEX samples from MW # 6 & # 7 only .

Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering
Project: Valdez A #1E

Lab Order: 0406203

Lab ID: 0406203-01

Collection Date: 6/19/2004 9:00:00 AM

Client Sample ID: MW #6

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	7.5	5.0		µg/L	10	6/28/2004 11:14:28 PM
Toluene	ND	5.0		µg/L	10	6/28/2004 11:14:28 PM
Ethylbenzene	79	5.0		µg/L	10	6/28/2004 11:14:28 PM
Xylenes, Total	530	5.0		µg/L	10	6/28/2004 11:14:28 PM
Surr: 4-Bromofluorobenzene	96.5	74-118		%REC	10	6/28/2004 11:14:28 PM

Lab ID: 0406203-02

Collection Date: 6/19/2004 9:10:00 AM

Client Sample ID: MW #7

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	170	2.5		µg/L	5	6/28/2004 11:44:59 PM
Toluene	4.1	2.5		µg/L	5	6/28/2004 11:44:59 PM
Ethylbenzene	120	2.5		µg/L	5	6/28/2004 11:44:59 PM
Xylenes, Total	780	2.5		µg/L	5	6/28/2004 11:44:59 PM
Surr: 4-Bromofluorobenzene	110	74-118		%REC	5	6/28/2004 11:44:59 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Accreditation Applied:
NELAC ☐ USACE ☐

Client: BLAGG / X70

Address: P.O. Box 87

82-F-D. NM 87413

Fax #: 505-632-3903

Sample I.D. No.

2/19/0

070

WATER	
-------	--

MW #6

2-40ml

✓

1

40203

✓

6/19/00

0160

water

mw #7

2-40m

✓

1

2

→

Relinquished By: A Signature

2/26/2001

Relinquished By: (Signature)

Received By: (Signature) 6/21/04

Rem

Received By: (Signature)

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D

Albuquerque, New Mexico 87109

Tel. 505.345.3975 Fax 505.345.4107

www.hallenvironmental.com

ANALYSIS REQUEST

[illegible]

Remarks:

Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering
Work Order: 0406203
Project: Valdez A #1E

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R12290	Test Code: SW8021	Units: µg/L	Analysis Date 6/28/2004 9:39:47 AM	Prep Date					
Client ID:			Run ID: PIDFID_040628A		SeqNo: 283085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.67	0	20	0	103	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering
 Work Order: 0406203
 Project: Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R12290	Test Code: SW8021	Units: µg/L	Analysis Date	6/28/2004 7:40:46 PM	Prep Date				
Client ID:		Run ID:	PIDFID_040628A		SeqNo:	283117					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.02	0.5	20	0	100	81.3	121	0			
Toluene	19.54	0.5	20	0	97.7	84.9	118	0			
Ethylbenzene	19.75	0.5	20	0	98.8	53.8	149	0			
Xylenes, Total	60.33	0.5	60	0	101	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

6/21/2004

Order Number **0406203**

Received by **AT**

Checklist completed by



6/21/04
Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☒	N/A ☐
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	6°	4° C ± 2 Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

ELAGG ENGINEERING INC
MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : ATO ENERGY INC

CHAIN-OF-CUSTODY # : N / A

VALDEZ A # 1E

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT G, SEC. 24, T29N, R11W

Date : Sept. 27, 2004

SAMPLER : N J V

Filename : 09-27-04.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56		-	20.64	-	-	-	-	-
3	101.06		-	18.35	-	-	-	-	-
6			8.27	14.75	1340	7.05	2,300	20.5	3.25
7	99.59		-	18.83	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	09/27/04	1030

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW # 6 . Collected BTEX sample from MW # 6 only .

Hall Environmental Analysis Laboratory

Date: 01-Oct-04

CLIENT: Blagg Engineering

Client Sample ID: MW#6

Lab Order: 0409284

Collection Date: 9/27/2004 1:40:00 PM

Project: Valdez A #1E

Lab ID: 0409284-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	8.4	5.0		µg/L	10	9/30/2004 1:54:22 AM
Toluene	ND	5.0		µg/L	10	9/30/2004 1:54:22 AM
Ethylbenzene	140	5.0		µg/L	10	9/30/2004 1:54:22 AM
Xylenes, Total	1100	5.0		µg/L	10	9/30/2004 1:54:22 AM
Surr: 4-Bromofluorobenzene	115	74-118		%REC	10	9/30/2004 1:54:22 AM

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level 1 / 4

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Client: BLAKE EXPL. / XTO ENERGY

Address: P.O. BOX 87

BLVD. NW 87413

Phone #: 505-632-1199

Fax #: 505-632-3903

Date	Time	Matrix	Sample I.D. No.
7/17/04	1340	WATER	MW #6

Sampler: NJV

Sample Temperature: 5.0

Number/Volume	Preservative	HEAL No.
2-40ml	<u>✓</u>	<u>009284</u>

Project Manager: NJV

Project #:

Project Name: VALDEZ A #1E

Accreditation Applied:
 NELAC ☐ USACE ☐

Other:

CHAIN-OF-CUSTODY RECORD

Client: BLAKE EXPL. / XTO ENERGY

Address: P.O. BOX 87

BLVD. NW 87413

Phone #: 505-632-1199

Fax #: 505-632-3903

Date	Time	Matrix	Sample I.D. No.
7/17/04	1340	WATER	MW #6

Sampler: NJV

Sample Temperature: 5.0

Number/Volume	Preservative	HEAL No.
2-40ml	<u>✓</u>	<u>009284</u>

Project Manager: NJV

Project #:

Project Name: VALDEZ A #1E

Accreditation Applied:
 NELAC ☐ USACE ☐

Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

☒	BTEX + MTBE + TMB's (8021R)
☐	BTEX + MTBE + TPH (Gasoline Only)
☐	TPH Method 8015B (Gas/Diesel)
☐	TPH (Method 418.1)
☐	EDB (Method 504.1)
☐	EDC (Method 8021)
☐	8310 (PNA or PAH)
☐	RCRA 8 Metals
☐	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)
☐	8081 Pesticides / PCB's (8082)
☐	8260B (VOA)
☐	8270 (Semi-VOA)
☐	Air Bubbles or Headspace (Y or N)

Remarks:

Date: <u>7/28/04</u>	Time: <u>0830</u>	Relinquished By: (Signature) <u>[Signature]</u>	Received By: (Signature) <u>[Signature]</u>
Date: <u>7/28/04</u>	Time: <u>1425</u>	Relinquished By: (Signature)	Received By: (Signature)

Hall Environmental Analysis Laboratory

Date: 01-Oct-04

CLIENT: Blagg Engineering
Work Order: 0409284
Project: Valdez A #1E

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R13281	Test Code: SW8021	Units: µg/L	Analysis Date	9/30/2004 4:52:49 AM	Prep Date				
Client ID:			Run ID: PIDFID_040929B		SeqNo:	308677					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.12	0	20	0	101	74	118	0			

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	/

Hall Environmental Analysis Laboratory

Date: 01-Oct-04

CLIENT: Blagg Engineering
Work Order: 0409284
Project: Valdez A #1E

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R13281	Test Code: SW8021	Units: µg/L	Analysis Date	9/29/2004 8:26:30 PM	Prep Date				
Client ID:		Run ID:	PIDFID_040929B		SeqNo:	308687					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.04	0.5	20	0	95.2	81.3	121	0			
Toluene	19.21	0.5	20	0	96.0	84.9	118	0			
Ethylbenzene	19.51	0.5	20	0	97.6	53.8	149	0			
Xylenes, Total	58.2	0.5	60	0	97.0	83.1	122	0			

3 / 4

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
/

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

Order Number 0409284

Received by AMG

Checklist completed by

Bongales 07/28/04
Signature Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Container/Temp Blank temperature?

5° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAUG ENGINEERING INC.
MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : **ITC ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

VALDEZ A #1E

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

UNIT G, SEC. 24, T29N, R11W

Date : **June 29, 2005**

SAMPLER : **N J V**

Filename : **06-29-05.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.56	89.76	12.80	20.64	-	-	-	-	-
3	101.06	88.15	12.91	18.35	-	-	-	-	-
6			9.13	14.75	0835	7.11	2,100	16.1	2.75
7	99.59	85.78	13.81	18.83	0825	6.98	2,200	15.0	2.50

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/29/05 0815

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW #6 & #7 . Collected BTEX samples from MW #6 & #7 only .

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: Blagg Engineering
Project: Valdez A #1E**Lab Order:** 0506283**Lab ID:** 0506283-01**Collection Date:** 6/29/2005 8:35:00 AM**Client Sample ID:** MW #6**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	6.9	5.0		µg/L	10	6/30/2005 3:23:41 PM
Toluene	ND	5.0		µg/L	10	6/30/2005 3:23:41 PM
Ethylbenzene	150	5.0		µg/L	10	6/30/2005 3:23:41 PM
Xylenes, Total	1100	5.0		µg/L	10	6/30/2005 3:23:41 PM
Surr: 4-Bromofluorobenzene	101	83.3-121		%REC	10	6/30/2005 3:23:41 PM

Lab ID: 0506283-02**Collection Date:** 6/29/2005 8:25:00 AM**Client Sample ID:** MW #7**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	100	5.0		µg/L	10	6/30/2005 3:55:39 PM
Toluene	14	5.0		µg/L	10	6/30/2005 3:55:39 PM
Ethylbenzene	68	5.0		µg/L	10	6/30/2005 3:55:39 PM
Xylenes, Total	470	5.0		µg/L	10	6/30/2005 3:55:39 PM
Surr: 4-Bromofluorobenzene	101	83.3-121		%REC	10	6/30/2005 3:55:39 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: Blagg Engineering
Work Order: 0506283
Project: Valdez A #1E

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R15863	Test Code: SW8021	Units: µg/L	Analysis Date	6/30/2005 10:30:22 AM	Prep Date			
Client ID:			Run ID: PIDFID_050630A		SeqNo:	376231				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 4-Bromofluorobenzene	17.44	0	20	0	87.2	83.3	121	0		

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	/

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: Blagg Engineering

Work Order: 0506283

Project: Valdez A #1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX LCS 100ng	Batch ID: R15863	Test Code: SW8021	Units: µg/L	Analysis Date	6/30/2005 12:03:37 PM	Prep Date				
Client ID:		Run ID:	PIDFID_050630A		SeqNo:	376239					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.58	0.5	20	0	92.9	88.7	114	0			
Toluene	18.93	0.5	20	0	94.6	89.3	112	0			
Ethylbenzene	18.79	0.5	20	0	93.9	88.6	113	0			
Xylenes, Total	57.41	0.5	60	0	95.7	89.4	112	0			

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	/

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

6/29/2005

Order Number 0506283

Received by **AT**

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☒	N/A ☐	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Container/Temp Blank temperature?

4°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

July 26, 2001

Mr. William Olson
New Mexico Oil Conservation Div.
1220 St. Francis Drive
Santa Fe, New Mexico 87504

Re: XTO Energy Inc.
Request for Abandonment of Groundwater Monitor Wells
Valdez A 1E, (G) Sec. 24 - T29N - R11W, San Juan County, NM

Dear Mr. Olson:

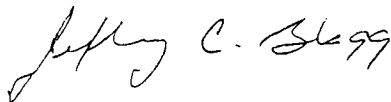
On behalf of XTO Energy Inc., Blagg Engineering, Inc. (BEI) is requesting NMOCD approval to abandon three (3) groundwater monitor wells at the captioned Valdez A 1E well site. There are presently nine (9) groundwater monitor wells installed at the site (see Figure 1). The surface landowner is planning on expanding his alfalfa crop and removal of certain wells will facilitate this expansion. Abandonment will follow standard NMOCD approved procedures.

The wells included in this request for abandonment are as follows:

- Monitor Well MW#2 - Dry since BEI site monitoring beginning May, 1994
- Monitor Well MW#4 - Five (5) consecutive sample events with BTEX within standards between February 23, 1993 and June 24, 1994.
- Monitor Well MW#5 - Five (5) consecutive sample events with BTEX within standards between June 7, 1993 and June 24, 1994.

A summary of monitoring test results for site wells is attached for your review. BEI does not foresee a need to sample the three wells included in this request for abandonment. Other wells in the monitoring system should be adequate to determine groundwater quality and gradient.

Respectfully submitted,
Blagg Engineering, Inc.



Jeffrey C. Blagg, President
NMPE 11607

Attachments: Site Map, lab data summary

cc: Mr. Denny Foust, NMOCD - Aztec
Mr. Terry Matthews, Cross Timbers - Farmington
Mr. Jeff Greider, Landowner - Bloomfield

File: crosstimbers.closure2.xmt



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

January 4, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO: 7000-1670-0012-5357-8192

Ms. Nina Hutton
XTO Energy, Inc.
810 Houston St., Suite 2000
Fort Worth, Texas 76102-6298

**RE: CASE #3R0134
VALDEZ A#1E WELL SITE
SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed XTO Energy, Inc.'s (XTO) July 26, 2001 "XTO ENERGY INC., REQUEST FOR ABANDONMENT OF GROUNDWATER MONITOR WELLS, VALDEZ A 1E, (G) SEC. 24 - T29N - R11W, SAN JUAN COUNTY, NEW MEXICO which was submitted on behalf of XTO by their consultant Blagg Engineering, Inc. This document contains XTO's request to close monitor wells MW-2, MW-4 and MW-5 at the Valdez A#1E well site to facilitate surface use of the land for farming by the landowner. The request is based upon 4 consecutive ground water sampling events from each well where contaminant concentrations were below New Mexico Water Quality Control Commission (WQCC) ground water standards.

The above-referenced request is approved. Please be advised that OCD approval does not relieve XTO of responsibility if the monitor well network fails to adequately monitor contamination related to XTO's activities. In addition, OCD approval does not relieve XTO of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Jeff Blagg, Blagg Engineering, Inc.

Completed
2/4/02