

3R - 131

REPORTS

DATE:

2005



3R0131

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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

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XTO ENERGY INC. Oil Conservation Division
Environmental Bureau

ANNUAL GROUNDWATER REMEDIATION REPORT

2005

**SULLIVAN GC D #1
(B) SECTION 26, 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**

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Field Sampling Data Summaries

Laboratory Reports

XTO ENERGY INC.
Sullivan GC D # 1 - Blow & Separator Pits
NW/4 NE/4 Sec. 26, T29N, R11W

Pit Closure Dates:

5/5/94 (Separator Pit)
6/8/94 (Blow Pit)

Monitor Well Installation Dates:

4/30/96 (MW 1, 2, 3 & 4)
5/3/00 (MW 1R, 2R & 5)

Monitor Well Sampling Dates:

6/10/96, 6/27/97, 6/12/98, 5/27/99, 6/29/00, 8/30/00,
12/5/00, 3/3/01, 5/16/01, 6/27/02, 6/27/03, 6/16/04,
6/28/05

Historical Information:

- May/June 1994 - Evidence of groundwater impacts were discovered during remedial work to close blow and separator pits (Figure 1). Remediation of impacted soils and groundwater via excavation was immediately conducted. Well operated by Amoco Production Company.
- June 1996 - Monitor wells were installed to evaluate residual water quality.
- January 1998 - XTO Energy Inc. (XTO) acquires the Sullivan GC D #1 from Amoco Production Company
- January 1998 to Present - Continued quarterly/annual monitor well sampling and analysis to evaluate natural attenuation.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site 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 on Tables 1 and 2. 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 gradient at this site flows predominantly in a north direction, with a minor west component (Figures 2 - 5).

Monitor well sampling indicates limited hydrocarbon impact that appears to be in the area of MW 1R. Natural attenuation appears to be successful resulting in decreased hydrocarbon levels since June 2000 (Tables 1 and 2). Analytical data indicates dissolved hydrocarbons are in excess of NMWQCC closure standards. This well is located immediately down-gradient from the separator pit location. Background total dissolved solids (TDS) levels are high at this location, exceeding of 10,000 parts per million and alkali present throughout the ground surface.

Summary:

XTO proposes sampling of monitor well MW 1R semi-annually in 2006 to monitor the natural attenuation occurring at this site. The addition of nutrients or application of an oxidizer is also recommended for MW 1R. Once BTEX concentrations in MW 1R are below NMWQCC closure standards, quarterly sampling will be conducted.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

REVISED DATE: JANUARY 17, 2006

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

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
10-Jun-96	MW #1	7.69	10.00	38,300	10,500	7.5		298	90.6	29.8	417.5
27-Jun-97		7.81	10.00		12,900	7.3		675	208	342	645
12-Jun-98		7.31	10.00		13,200	7.2		131	8.8	0.4	8.6
27-May-99		6.79		9,800	19,600	7.6		345	17.9	13.1	87.3
29-Jun-00	MW #1R	7.85	15.00	6,820	7,300	7.4		570	76	51	303
16-May-01		7.31			7,270	7.4		180	1	3.5	52.9
27-Jun-02		7.78			11,300	7.55		67	ND	4.8	9.1
27-Jun-03		7.96			7,900	7.00		280	ND	10	16
16-Jun-04		7.73			8,800	7.02		400	ND	6.8	12
28-Jun-05		8.71			11,100	6.90		130	ND	7.4	6.4
10-Jun-96	MW #2	7.85	10.00	10,600	5,500	7.4		ND	ND	ND	ND
01-Jun-99		6.44		23,200	59,200	7.4		NA	NA	NA	NA
10-Jun-96	MW #3	8.48	10.00	5,310	3,600	6.9		ND	13	ND	2.52
26-May-99		6.57		6,300	12,650	7.2		NA	NA	NA	NA
10-Jun-96	MW #4	8.04	10.00	10,700	3,500	7.0		ND	ND	ND	9.24
26-May-99		6.97		6,320	12,660	7.4		NA	NA	NA	NA
29-Jun-00	MW #5	8.39	15.00	6,010	4,700	7.4		6.1	1.1	3.2	22.2
30-Aug-00		9.17			4,100	7.2		ND	0.6	1.5	1.8
05-Dec-00		8.28			4,400	7.5		ND	ND	ND	ND
03-Mar-01		7.48			4,100	7.4		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

NOTES : 1) RESULTS IN BOLD RED TYPE INDICATE - EXCEEDING NMWQCC STANDARDS .

2) RESULTS IN BOLD BLUE TYPE INDICATE - BELOW NMWQCC STANDARDS AFTER PROCEEDING RESULTS EXCEEDED .

TABLE 2
GENERAL WATER QUALITY
XTO ENERGY INC.
SULLIVAN GC D # 1

SAMPLE DATES : MAY 26, 1999 & JUNE 29, 2000 (MW # 5)

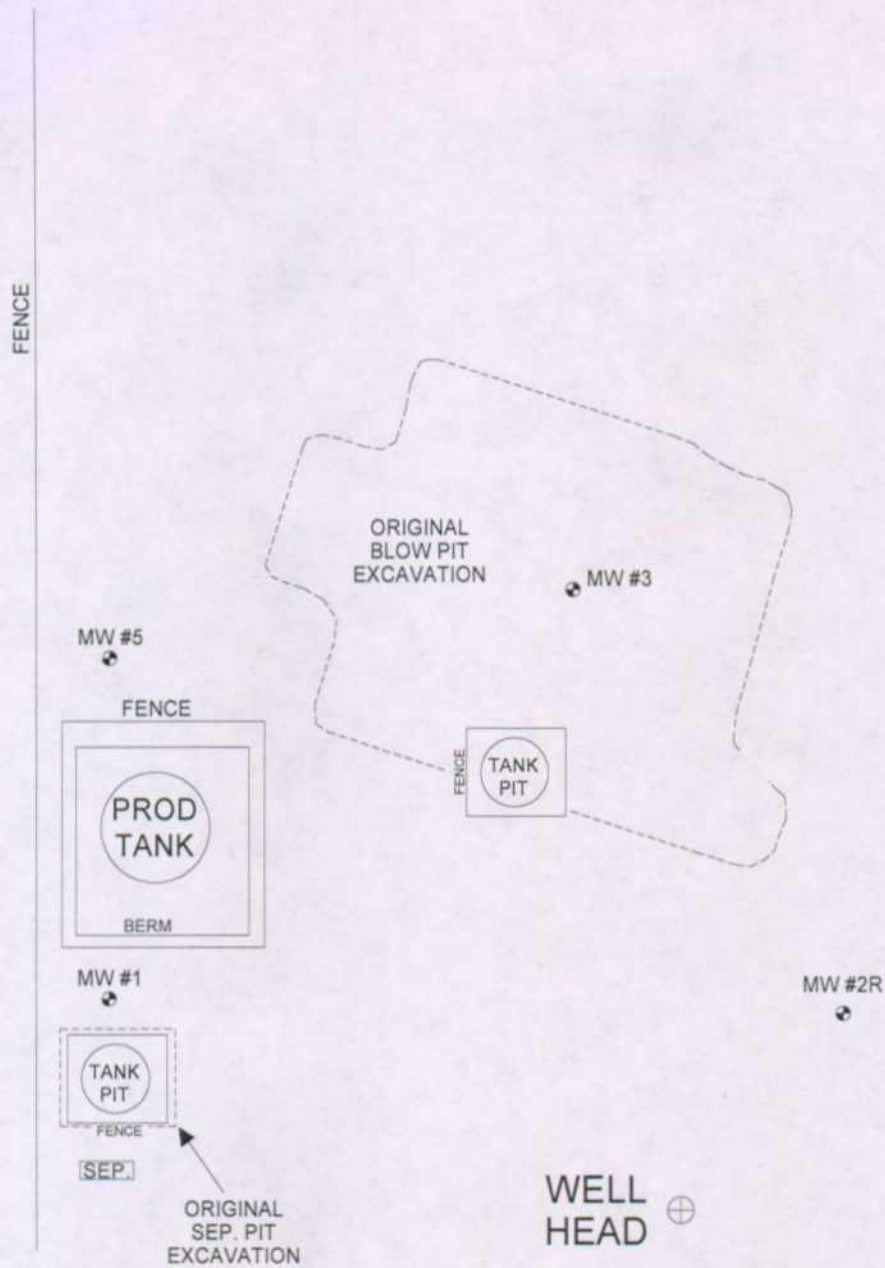
PARAMETERS	MW # 1R 05/26/99	MW # 2R 05/26/99	MW # 3 05/26/99	MW # 4 05/26/99	MW # 5 06/29/00	Units
LAB pH	7.60	7.41	7.16	7.40	7.29	s. u.
LAB CONDUCTIVITY @ 25 C	19,600	59,200	12,650	12,660	12,060	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	9,800	23,200	6,300	6,320	6,010	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	9,764	22,121	6,285	6,230	5,970	mg / L
SODIUM ABSORPTION RATIO	26.2	73.9	21.7	23.6	15.9	ratio
TOTAL ALKALINITY AS CaCO3	1,484	485	444	592	422	mg / L
TOTAL HARDNESS AS CaCO3	1,720	1,495	1,040	904	1,400	mg / L
BICARBONATE as HCO3	1,484	485	444	592	422	mg / L
CARBONATE AS CO3	< 1	< 1	< 1	< 1	< 0.1	mg / L
HYDROXIDE AS OH	< 1	< 1	< 1	< 1	< 0.1	mg / L
NITRATE NITROGEN	2.2	0.6	0.7	0.3	1.1	mg / L
NITRITE NITROGEN	0.001	0.058	0.036	0.013	0.035	mg / L
CHLORIDE	88.0	170.0	68.0	120	23.4	mg / L
FLUORIDE	1.42	1.79	1.23	1.24	2.64	mg / L
PHOSPHATE	23.0	2.0	0.5	2.5	1.6	mg / L
SULFATE	5,600	14,550	3,930	3,720	3,850	mg / L
IRON	0.210	0.307	0.037	0.089	1.16	mg / L
CALCIUM	464	408	350	272	306	mg / L
MAGNESIUM	137	116	40.0	54.7	155	mg / L
POTASSIUM	52.5	8.0	15.0	70.0	3.4	mg / L
SODIUM	2,495	6,570	1,610	1,630	1,370	mg / L
CATION / ANION DIFFERENCE	0.05	0.02	0.07	0.09	0.27	%

NOTES : MW #5 sample collected on June 29, 2000 .

Chloride & TDS samples collected on June 29, 2000 ; results are as follows:

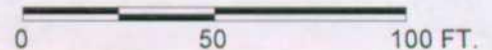
	TDS	CHLORIDE	
MW # 1R	6,820	9.1	mg / L
MW # 2R	4,730	20.5	mg / L

FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

1 INCH = 50 FEET



XTO ENERGY INC.
SULLIVAN GC D #1

NW/4 NE/4 SEC. 26, T29N, R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, Inc.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

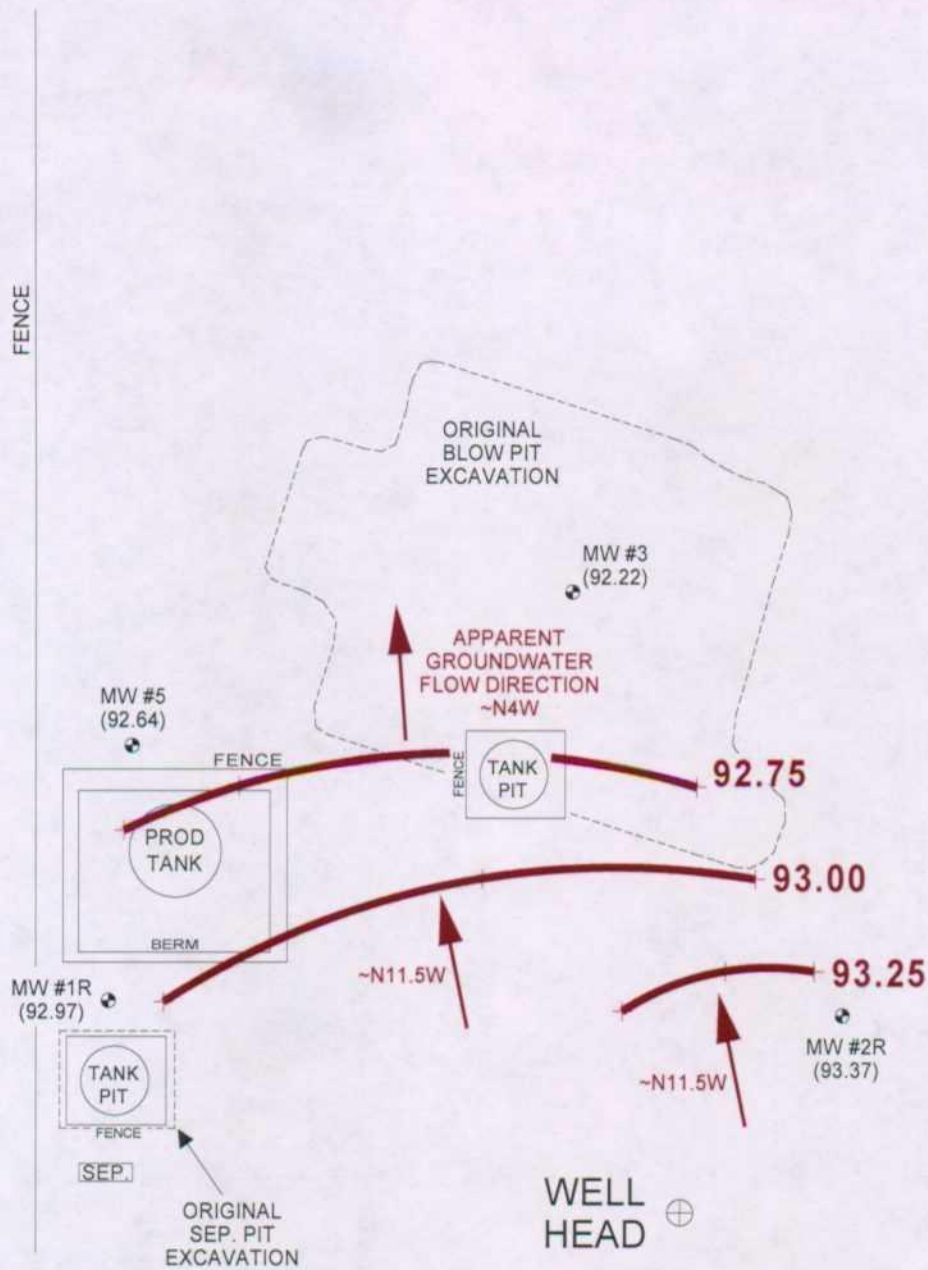
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 05-26-99-SM.SKF
REVISED: 10/13/05 NJV

**SITE
MAP**

05/99

FIGURE 2
(2nd 1/4, 2000)



Top of Well Elevation	
MW #1R	(100.82)
MW #2R	(100.43)
MW #3	(99.92)
MW #5	(101.03)
MW #1R (92.97)	Groundwater Elevation as of 6/29/00.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FEET

0 50 100 FT.

XTO ENERGY INC.

SULLIVAN GC D #1

NW/4 NE/4 SEC. 26, T29N, R11W, NMPM

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

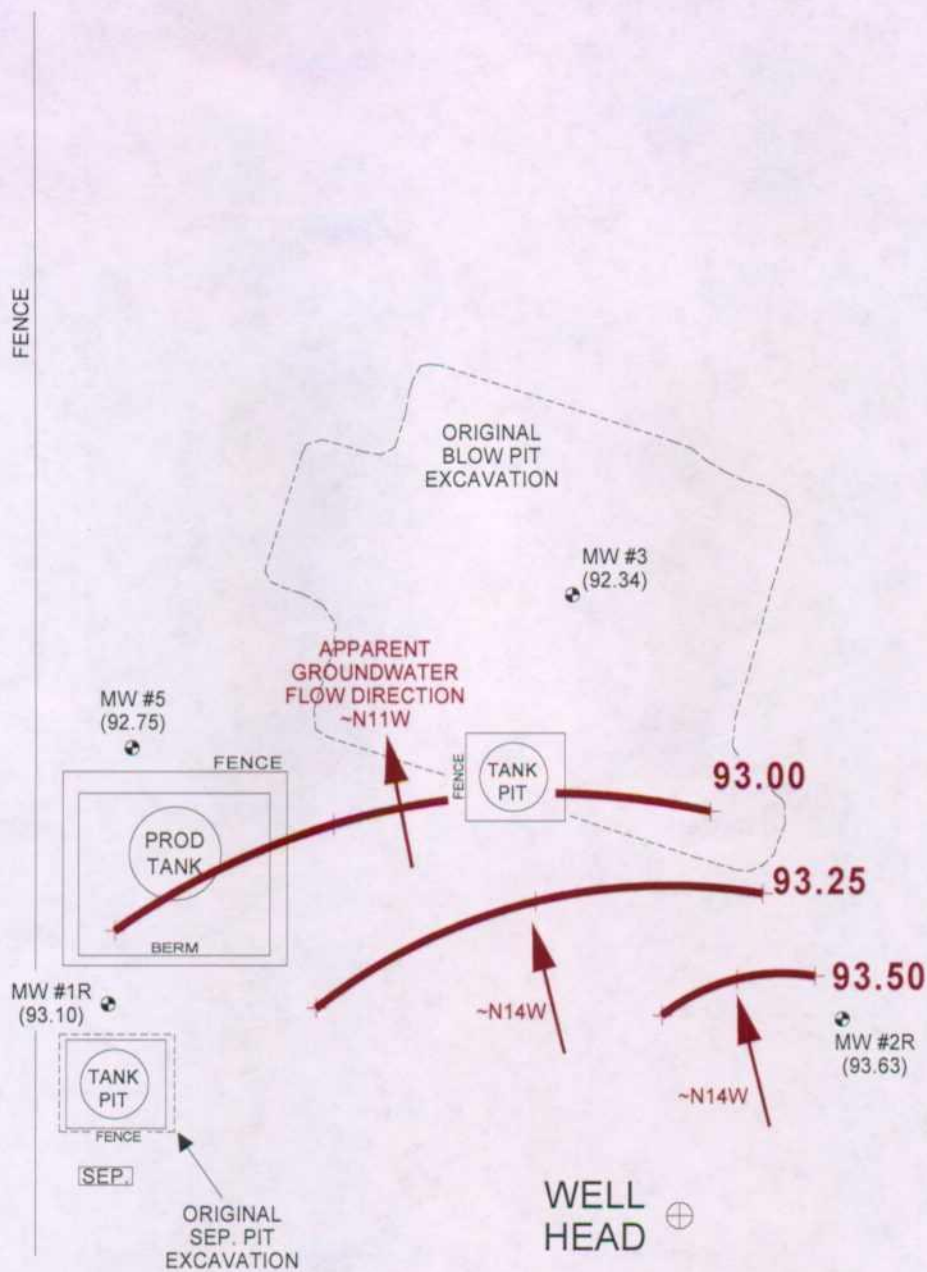
DRAWN BY: NJV

FILENAME: 06-29-00-GW.SKF

REVISED: 10/14/05 NJV

**GROUNDWATER
GRADIENT
MAP
06/00**

FIGURE 3
(4th 1/4, 2000)



	Top of Well Elevation
MW #1R	(100.82)
MW #2R	(100.43)
MW #3	(99.92)
MW #5	(101.03)
MW #1R	Groundwater Elevation as of 12/5/00.
(93.10)	

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FEET

0 50 100 FT.

XTO ENERGY INC.

SULLIVAN GC D #1

NW/4 NE/4 SEC. 26, T29N, R11W, NMPM

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

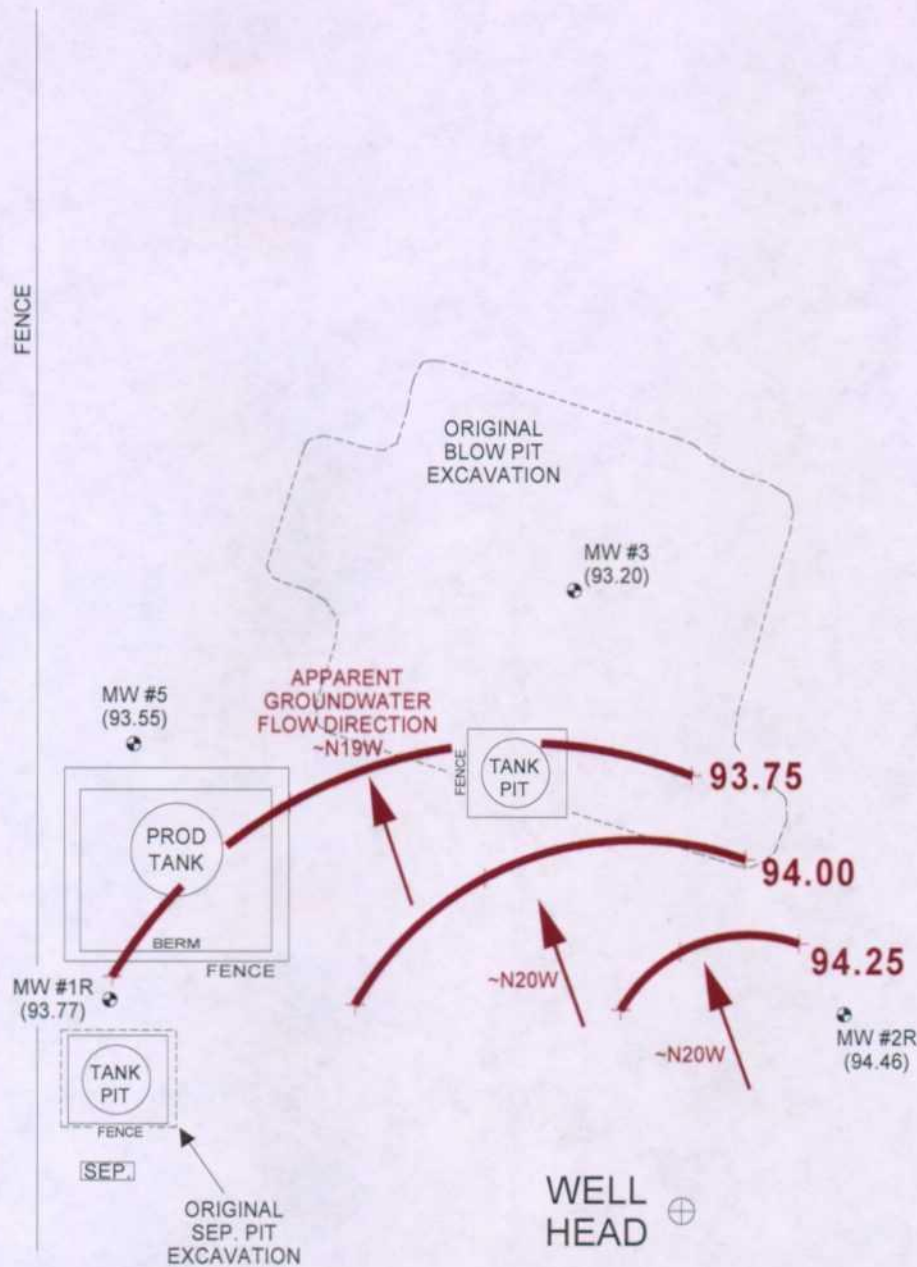
DRAWN BY: NJV

FILENAME: 12-05-00-GW.SKF

REVISED: 10/14/05 NJV

**GROUNDWATER
GRADIENT
MAP
12/00**

FIGURE 4
(1st 1/4, 2001)



Top of Well Elevation	
MW #1R	(100.82)
MW #2R	(100.43)
MW #3	(99.92)
MW #5	(101.03)
MW #1R	Groundwater Elevation as of 3/21/01.
(93.77)	

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FEET

0 50 100 FT.

XTO ENERGY INC.

SULLIVAN GC D #1

NW/4 NE/4 SEC. 26, T29N, R11W, NMPM

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1139

PROJECT: MW SAMPLING

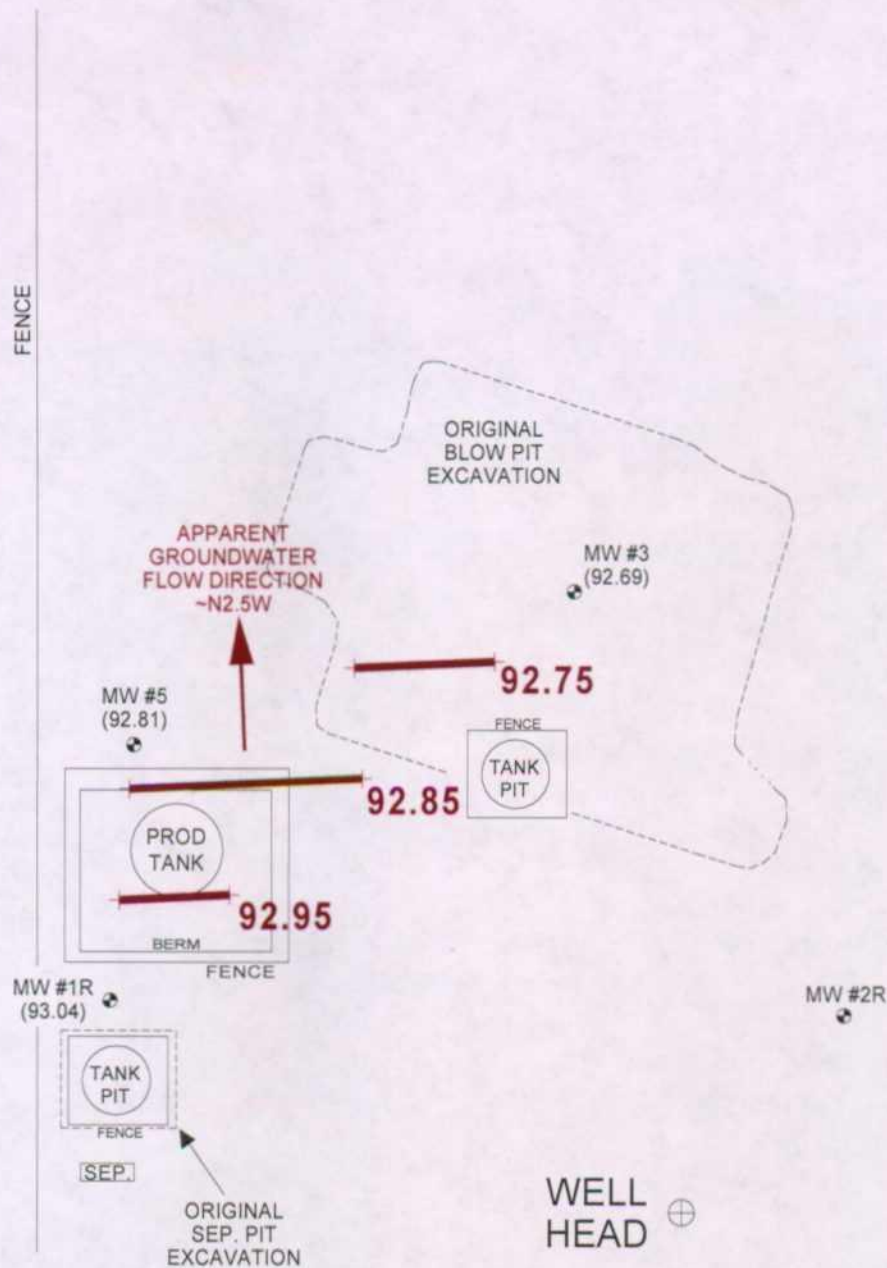
DRAWN BY: NJV

FILENAME: 03-21-01-GW.SKF

REVISED: 10/14/05 NJV

**GROUNDWATER
GRADIENT
MAP
03/01**

FIGURE 5
(2nd 1/4, 2002)



Top of Well Elevation	
MW #1R	(100.82)
MW #2R	(100.43)
MW #3	(99.92)
MW #5	(101.03)
MW #1R (93.04)	Groundwater Elevation as of 6/27/02.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FEET

0 50 100 FT.

XTO ENERGY INC.

SULLIVAN GC D #1

NW/4 NE/4 SEC. 26, T29N, R11W, NMPM

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: 06-27-02-GW.SKF

REVISED: 10/14/05 NJV

**GROUNDWATER
GRADIENT
MAP
06/02**

FIGURE 6

BLAGG ENGINEERING, INC.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY INC.**
LOCATION NAME: **SULLIVAN GC D #1 - BLOW PIT, UNIT B, SEC. 26, T29N, R11W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 61)**
BORING LOCATION: **159 FT., N70W FROM WELL HEAD.**

BORING #..... **BH - 7**
MW #..... **1R**
PAGE #..... **1**
DATE STARTED **5/03/00**
DATE FINISHED **5/03/00**
OPERATOR..... **DE**
PREPARED BY **NJV**

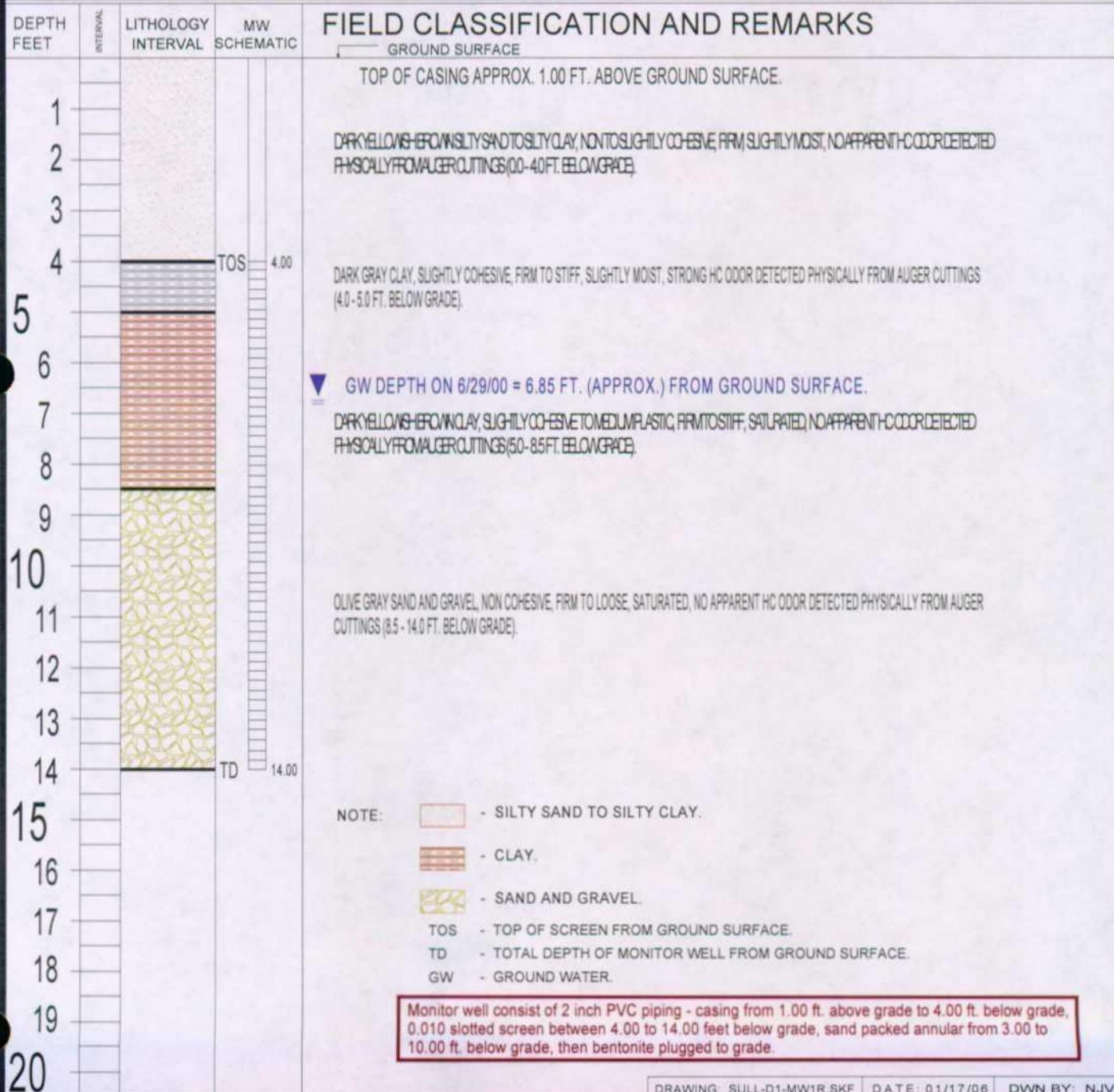


FIGURE 7

BLAGG ENGINEERING, INC.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY INC.**
LOCATION NAME: **SULLIVAN GC D #1 - BLOW PIT, UNIT B, SEC. 26, T29N, R11W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 61)**
BORING LOCATION: **66 FT., N40E FROM WELL HEAD.**

BORING #..... **BH - 5**
MW #..... **2R**
PAGE #..... **2**
DATE STARTED **5/03/00**
DATE FINISHED **5/03/00**
OPERATOR..... **DE**
PREPARED BY **NJV**



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 0.30 FT. ABOVE GROUND SURFACE.

TOS 3.50

DARK YELLOWISH BROWN SILTY CLAY TO CLAY, NON COHESIVE TO SLIGHTLY COHESIVE, FIRM TO STIFF, SLIGHTLY MOIST TO SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (0.0 - 10.0 FT. BELOW GRADE).

▼ GW DEPTH ON 6/29/00 = 6.76 FT. (APPROX.) FROM GROUND SURFACE.

OLIVE GRAY SAND AND GRAVEL, NON COHESIVE, FIRM TO LOOSE, SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (10.0 - 14.0 FT. BELOW GRADE).

TD 13.50

NOTE:  - SILTY CLAY TO CLAY.

 - SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.

TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

GW - GROUND WATER.

Monitor well consist of 2 inch PVC piping - casing from 0.30 ft. above grade to 3.50 ft. below grade, 0.010 slotted screen between 3.50 to 13.50 feet below grade, sand packed annular from 3.00 to 10.00 ft. below grade, then bentonite plugged to grade.

FIGURE 8

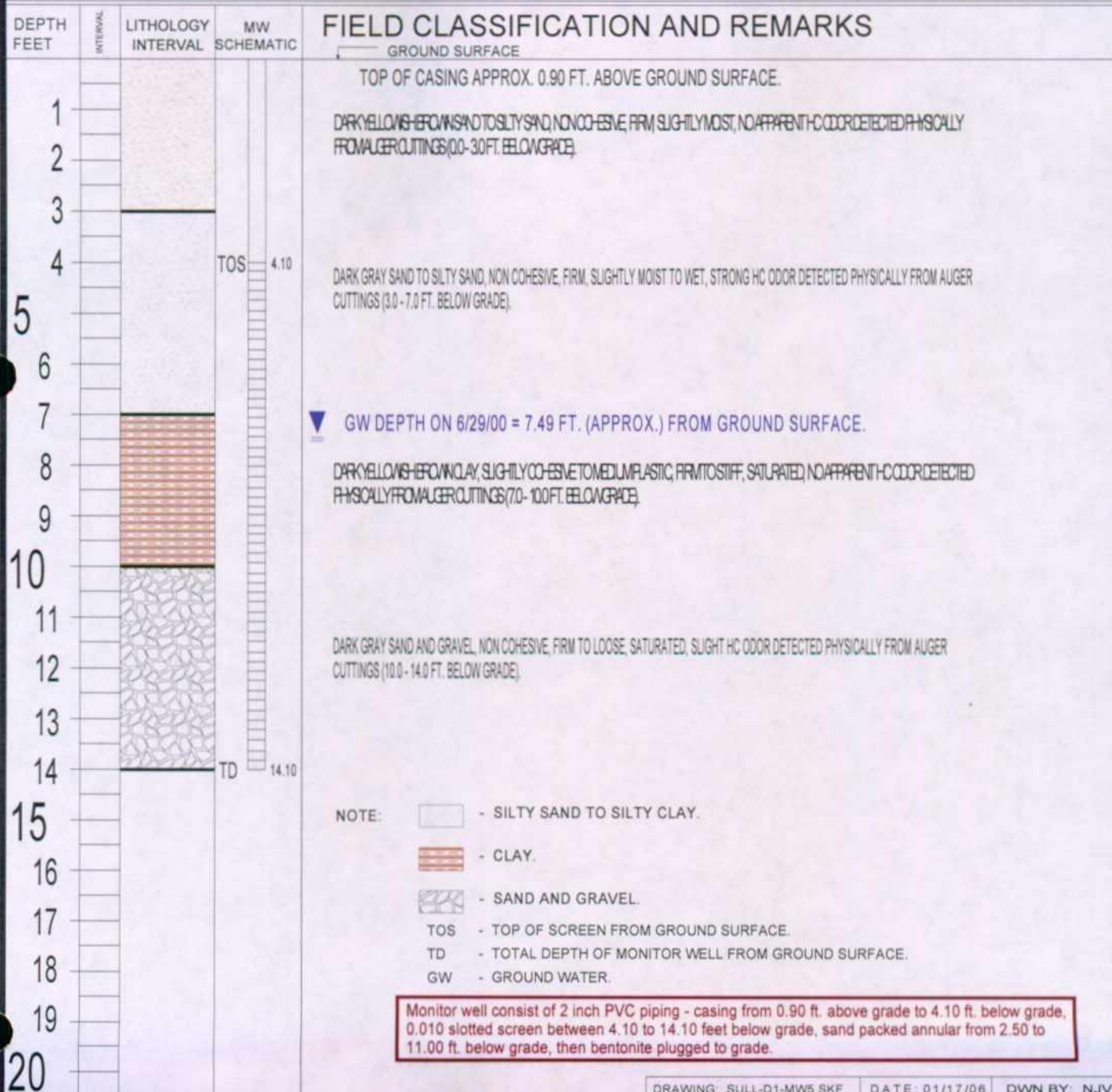
BLAGG ENGINEERING, INC.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.
LOCATION NAME: SULLIVAN GC D # 1 - BLOW PIT, UNIT B, SEC. 26, T29N, R11W
CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 61)
BORING LOCATION: 187 FT., N50W FROM WELL HEAD.

BORING #..... BH - 6
MW #..... 5
PAGE #..... 3
DATE STARTED 5/03/00
DATE FINISHED 5/03/00
OPERATOR..... DE
PREPARED BY NJV



BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10609

7026

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.

ENVIROTECH, INC.

Date : June 29, 2000

SAMPLER : N J V

Filename : 06-29-00.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)
1R	100.82	92.97	7.85	15.00	1330	7.4	7,300	3.50	-
2R	100.43	93.37	7.06	13.80	1235	7.3	4,000	3.50	-
3	99.92	92.22	7.70	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.64	8.39	15.00	1310	7.4	4,700	3.25	

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".

Excellent recovery in MW # 2R & # 5. Poor recovery in MW # 1R. Collected BTEX samples
from MW # 1R & 5. Collected TDS and chloride samples MW # 1R & 2R. Collected anion / cation
sample from MW # 5 only.

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10767

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.

Date : August 30, 2000

SAMPLER : N J V

Filename : 08-30-00.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)
1R	100.82	92.30	8.52	15.00	-	-	-	-	-
2R	100.43	92.63	7.80	13.80	-	-	-	-	-
3	99.92	91.43	8.49	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	91.86	9.17	15.00	0925	7.2	4,100	3.00	

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

Excellent recovery in MW # 5 . Collected BTEX samples from MW # 5 only .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10777

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.Date : December 5, 2000SAMPLER : N J VFilename : 12-05-00.WK4PROJECT 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)
1R	100.82	93.10	7.72	15.00	-	-	-	-	-
2R	100.43	93.63	6.80	13.80	-	-	-	-	-
3	99.92	92.34	7.58	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.75	8.28	15.00	1000	7.5	4,400	3.25	

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 ".Excellent recovery in MW # 5 . Collected BTEX samples from MW # 5 only .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 11044

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.

Date : March 21, 2001

SAMPLER : N J V

Filename : 03-21-01.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)
1R	100.82	93.77	7.05	15.00	-	-	-	-	-
2R	100.43	94.46	5.97	13.80	-	-	-	-	-
3	99.92	93.20	6.72	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	93.55	7.48	15.00	1420	7.42	4,100	3.75	-

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 ".

Excellent recovery in MW # 5 . Collected BTEX samples from MW # 5 only .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OPER. CO.CHAIN-OF-CUSTODY # : 11049

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.Date : May 16, 2001SAMPLER : N J VFilename : 05-16-01.WK4PROJECT 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)
1R	100.82	93.51	7.31	15.00	1345	7.40	2,700	3.75	-
2R	100.43	94.07	6.36	13.80	-	-	-	-	-
3	99.92	92.98	6.94	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	93.28	7.75	15.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(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 ".Poor recovery in MW # 1R . Collected BTEX sample from MW # 1R only .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : XTO ENERGY, INC.CHAIN-OF-CUSTODY # : 11995

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.Date : June 27, 2002SAMPLER : N J VFilename : 06-27-02.WK4PROJECT 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)
1R	100.82	93.04	7.78	15.00	0635	7.55	11,300	1.75	-
3	99.92	92.69	7.23	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.81	8.22	15.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(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 ".Poor / fair recovery in MW # 1R . Collected BTEX sample from MW # 1R only .MW # 2 apparently destroyed during during of adjacent salt water disposal well on
same well pad .

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 27, 2003

SAMPLER : N J V

Filename : 06-27-03.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)	TEMP. (celcius)	VOLUME PURGED (gal.)
1R	100.82	92.86	7.96	15.00	1055	7.00	7,900	22.1	1.75
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.65	8.38	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/27/03 06:45

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:

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

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW # 1R. Collected BTEX sample from MW # 1R only.

No discoloration observed during purging. Purging terminated @ time 1036. Depth to water = 9.30 ft. prior to sample collection. MW # 3 apparently destroyed during clearing / reconstruction of well pad.

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 16, 2004

SAMPLER : N J V

Filename : 06-16-04.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.)
1R	100.82	93.09	7.73	15.00	1140	7.02	8,800	20.7	1.50
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03		-	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/16/04 1130

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:

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

Comments or note well diameter if not standard 2 ".

Poor / fair recovery in MW # 1R . Collected BTEX sample from MW # 1R only .

No discoloration observed during purging . Purging terminated @ time 1130 . Depth to water = 9.60 ft. prior to sample collection . MW # 3 apparently destroyed during clearing / reconstruction of well pad .

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 28, 2005

SAMPLER : N J V

Filename : 06-28-05.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.)
1R	100.82	92.11	8.71	15.00	1405	6.90	11,100	22.2	1.50
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03		-	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/28/05 1400

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:

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

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW # 1R . Collected BTEX sample from MW # 1R only .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10609

7026

SULLIVAN GC D # 1 - BLOW & SEP. PITS

LABORATORY (S) USED : ON - SITE TECH.

UNIT B, SEC. 26, T29N, R11W

ENVIROTECH, INC.

Date : June 29, 2000

SAMPLER : N J V

Filename : 06-29-00.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)
1R	100.82	92.97	7.85	15.00	1330	7.4	7,300	3.50	-
2R	100.43	93.37	7.06	13.80	1235	7.3	4,000	3.50	-
3	99.92	92.22	7.70	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.64	8.39	15.00	1310	7.4	4,700	3.25	

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 "

Excellent recovery in MW # 2R & # 5 . Poor recovery in MW # 1R . Collected BTEX samples

from MW # 1R & 5 . Collected TDS and chloride samples MW # 1R & 2R . Collected anion / cation

sample from MW # 5 only .

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



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

ANALYTICAL REPORT

Date: 18-Jul-00

Client:	Blagg Engineering	Client Sample Info:	Sullivan GC D#1
Work Order:	0006070	Client Sample ID:	MW #1R
Lab ID:	0006070-01A	Matrix:	AQUEOUS
Project:	Cross Timbers - Sullivan GC D#1	Collection Date:	6/29/2000 1:30:00 PM
		COC Record:	10609

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	570	2.5		µg/L	5	7/12/2000
Toluene	76	2.5		µg/L	5	7/12/2000
Ethylbenzene	51	2.5		µg/L	5	7/12/2000
m,p-Xylene	220	5		µg/L	5	7/12/2000
o-Xylene	83	2.5		µg/L	5	7/12/2000

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	Sur: - Surrogate

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: 18-Jul-00

Client:	Blagg Engineering	Client Sample Info:	Sullivan GC D#1
Work Order:	0006070	Client Sample ID:	MW #5
Lab ID:	0006070-02A	Matrix:	AQUEOUS
Project:	Cross Timbers - Sullivan GC D#1	Collection Date:	6/29/2000 1:10:00 PM
		COC Record:	10609

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	6.1	0.5		µg/L	1	7/11/2000
Toluene	1.1	0.5		µg/L	1	7/11/2000
Ethylbenzene	3.2	0.5		µg/L	1	7/11/2000
m,p-Xylene	16	1		µg/L	1	7/11/2000
o-Xylene	6.2	0.5		µg/L	1	7/11/2000

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 - Surrogate

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2 of 2

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

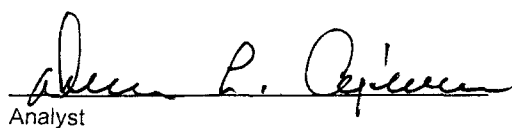
Water Analysis

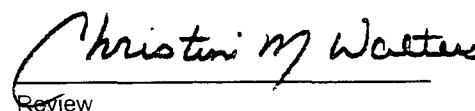
Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 1R	Date Reported:	06-30-00
Laboratory Number:	H635	Date Sampled:	06-29-00
Sample Matrix:	Water	Date Received:	06-29-00
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact	Chain of Custody:	7026

Parameter	Analytical Result	Units
Total Dissolved Solids @ 180C	6,820	mg/L
Chloride	9.1	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Sullivan GC D #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

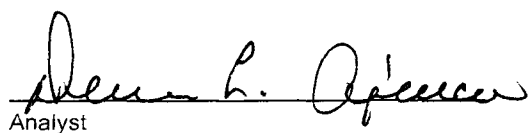
Water Analysis

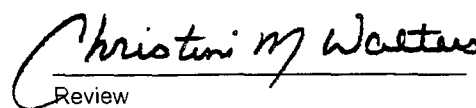
Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 2R	Date Reported:	06-30-00
Laboratory Number:	H636	Date Sampled:	06-29-00
Sample Matrix:	Water	Date Received:	06-29-00
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact	Chain of Custody:	7026

Parameter	Analytical Result	Units
Total Dissolved Solids @ 180C	4,730	mg/L
Chloride	20.5	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Sullivan GC D #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

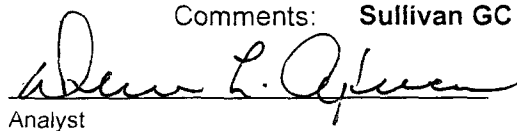
CATION / ANION ANALYSIS

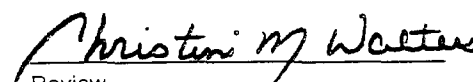
Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 5	Date Reported:	06-30-00
Laboratory Number:	H637	Date Sampled:	06-29-00
Chain of Custody:	7026	Date Received:	06-29-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.29	s.u.		
Conductivity @ 25° C	12,060	umhos/cm		
Total Dissolved Solids @ 180C	6,010	mg/L		
Total Dissolved Solids (Calc)	5,970	mg/L		
SAR	15.9	ratio		
Total Alkalinity as CaCO3	422	mg/L		
Total Hardness as CaCO3	1,400	mg/L		
Bicarbonate as HCO3	422	mg/L	6.92	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.1	mg/L	0.02	meq/L
Nitrite Nitrogen	0.035	mg/L	0.00	meq/L
Chloride	23.4	mg/L	0.66	meq/L
Fluoride	2.64	mg/L	0.14	meq/L
Phosphate	1.6	mg/L	0.05	meq/L
Sulfate	3,850	mg/L	80.16	meq/L
Iron	1.16	mg/L		
Calcium	306	mg/L	15.27	meq/L
Magnesium	155	mg/L	12.75	meq/L
Potassium	3.4	mg/L	0.09	meq/L
Sodium	1,370	mg/L	59.60	meq/L
Cations			87.71	meq/L
Anions			87.94	meq/L
Cation/Anion Difference			0.27%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Sullivan GC D #1.


Analyst


Review



CHAIN OF CUSTODY RECORD

Date:

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

Page: _____ of _____

[illegible]

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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706

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

On Site Technologies, LTD.

Date: 18-Jul-00

CLIENT: Blagg Engineering
Work Order: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000		Prep Date:					
Client ID:	0006070	Run ID: GC-1_000711A		SeqNo: 29854							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0595	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0916	0.5									J

Sample ID: MB1	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000				Prep Date:			
Client ID:	0006070	Run ID: GC-1_000712A		SeqNo: 29926	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC						
Benzene	ND	0.5									
Ethylbenzene	.1388	0.5									J
m,p-Xylene	.4757	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.1557	0.5									J
Toluene	.2024	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: 18-Jul-00

CLIENT: Blagg Engineering
Work Order: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006072-29AMS	Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000711A	PQL	SPK value	SeqNo: 29855	
Analyte	Result	%REC	SPK Ref Val	LowLimit	HighLimit
Benzene	10880	103.3%	2621	73	126
Ethylbenzene	9217	103.7%	919.5	88	113
m,p-Xylene	16530	98.1%	844.8	83	112
Methyl tert-Butyl Ether	37240	90.2%	30020	81	125
o-Xylene	8424	104.5%	62.34	93	110
Toluene	8474	104.8%	86.84	76	126

Sample ID: 0006072-29AMSD	Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000711A	PQL	SPK value	SeqNo: 29856	
Analyte	Result	%REC	SPK Ref Val	LowLimit	HighLimit
Benzene	10610	99.9%	2621	73	126
Ethylbenzene	8993	100.9%	919.5	88	113
m,p-Xylene	16140	95.6%	844.8	83	112
Methyl tert-Butyl Ether	36330	78.8%	30020	81	125
o-Xylene	8255	102.4%	62.34	93	110
Toluene	8278	102.4%	86.84	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: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0006074-03AMS	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000712A	PQL	SPK value	SeqNo: 29927	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	2059	25	46.08	88	112
Ethylbenzene	2805	25	776.7	86	113
m,p-Xylene	9997	50	6132	85	108
Methyl tert-Butyl Ether	2166	50	46.08	86	117
o-Xylene	2352	25	299.2	92	110
Toluene	2130	25	38.93	88	116
				%REC	RPD Ref Val
				100.7%	
				101.4%	
				96.6%	
				106.0%	
				102.6%	
				104.5%	

Sample ID: 0006074-03AMSD	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000712A	PQL	SPK value	SeqNo: 29928	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	2001	25	46.08	88	112
Ethylbenzene	2725	25	776.7	86	113
m,p-Xylene	9715	50	6132	85	108
Methyl tert-Butyl Ether	2137	50	46.08	86	117
o-Xylene	2285	25	299.2	92	110
Toluene	2040	25	38.93	88	116
				%REC	RPD Ref Val
				97.8%	2059
				97.4%	2805
				89.6%	9997
				104.6%	2166
				99.3%	2352
				100.1%	2130
				2.9%	6
				2.9%	6
				2.9%	6
				1.3%	7
				2.9%	6
				4.3%	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: 18-Jul-00

CLIENT: Blagg Engineering
Work Order: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER				Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000		Prep Date:		
Client ID: 0006070				Run ID: GC-1_000711A			SeqNo: 29853				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.66	0.5	40	0.0595	104.0%	89	112				
Ethylbenzene	41.39	0.5	40	0	103.5%	93	112				
m,p-Xylene	78.06	1	80	0	97.6%	88	108				
Methyl tert-Butyl Ether	41.46	1	40	0	103.7%	87	115				
o-Xylene	41.44	0.5	40	0	103.6%	93	112				
Toluene	41.62	0.5	40	0.0916	103.8%	92	111				

Sample ID: LCS WATER	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000				Prep Date:					
Client ID:	0006070	Run ID:	GC-1_000712A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	40.32		40	0.5	40	0	100.8%	96	111				
Ethylbenzene	40.29		40	0.5	40	0.1388	100.4%	96	111				
m,p-Xylene	76.04		80	1	80	0.4757	94.4%	92	105				
Methyl tert-Butyl Ether	40.39		40	1	40	0	101.0%	93	113				
o-Xylene	40.55		40	0.5	40	0.1557	101.0%	97	110				
Toluene	40.52		40	0.5	40	0.2024	100.8%	97	109				

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
 1 of 1

On Site Technologies, LTD.

Date: 18-Jul-00

CLIENT: Blagg Engineering
Work Order: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000				Prep Date:		
Client ID:	0006070	Run ID:	GC-1_000711A		SeqNo: 29850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.97	0.5	20	0	109.8%	85	115				
Ethylbenzene	21.8	0.5	20	0	109.0%	85	115				
m,p-Xylene	41.3	1	40	0	103.2%	85	115				
Methyl tert-Butyl Ether	21.84	1	20	0	109.2%	85	115				
o-Xylene	21.96	0.5	20	0	109.8%	85	115				
Toluene	21.9	0.5	20	0	109.5%	85	115				
1,4-Difluorobenzene	89.22	0	100	0	89.2%	80	105				
4-Bromochlorobenzene	85.5	0	100	0	85.5%	78	108				
Fluorobenzene	87.73	0	100	0	87.7%	78	108				

Sample ID: CCV2 BTEX_0007		Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000				Prep Date:		
Client ID:		0006070	Run ID:	GC-1_000711A		SeqNo: 29851					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.06	0.5	20	0	105.3%	85	115				
Ethylbenzene	20.8	0.5	20	0	104.0%	85	115				
m,p-Xylene	39.43	1	40	0	98.6%	85	115				
Methyl tert-Butyl Ether	21.51	1	20	0	107.5%	85	115				
o-Xylene	21.03	0.5	20	0	105.2%	85	115				
Toluene	21.03	0.5	20	0	105.1%	85	115				
1,4-Difluorobenzene	89.09	0	100	0	89.1%	80	105				
4-Bromochlorobenzene	85.09	0	100	0	85.1%	78	108				
Fluorobenzene	87.47	0	100	0	87.5%	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: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0007		Batch ID: GC-1_000711	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/11/2000		Prep Date:
Client ID: 0006070		Run ID: GC-1_000711A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 29852
Analyte	Result						
Benzene	41.47		0.5	40	0	103.7%	85 115
Ethylbenzene	41.06		0.5	40	0	102.7%	85 115
m,p-Xylene	77.66		1	80	0	97.1%	85 115
Methyl tert-Butyl Ether	43.51		1	40	0	108.8%	85 115
o-Xylene	41.46		0.5	40	0	103.6%	85 115
Toluene	41.6		0.5	40	0	104.0%	85 115
1,4-Difluorobenzene	88.8		0	100	0	88.8%	80 105
4-Bromochlorobenzene	84.38		0	100	0	84.4%	78 108
Fluorobenzene	87.12		0	100	0	87.1%	78 108

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000		Prep Date:
Client ID: 0006070		Run ID: GC-1_000712A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 29922
Analyte	Result						
Benzene	21.07		0.5	20	0	105.4%	85 115
Ethylbenzene	21.12		0.5	20	0	105.6%	85 115
m,p-Xylene	40.04		1	40	0	100.1%	85 115
Methyl tert-Butyl Ether	20.54		1	20	0	102.7%	85 115
o-Xylene	21.16		0.5	20	0	105.8%	85 115
Toluene	21.21		0.5	20	0	106.1%	85 115
1,4-Difluorobenzene	89.52		0	100	0	89.5%	79 101
4-Bromochlorobenzene	85.38		0	100	0	85.4%	78 99
Fluorobenzene	87.65		0	100	0	87.6%	76 103

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: 0006070
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0007	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000712A	PQL	SPK value	SeqNo: 29923	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	20.82	0.5	20	85	115
Ethylbenzene	20.84	0.5	20	85	115
m,p-Xylene	39.65	1	40	85	115
Methyl tert-Butyl Ether	21.62	1	20	85	115
o-Xylene	21.03	0.5	20	85	115
Toluene	20.94	0.5	20	85	115
1,4-Difluorobenzene	89.55	0	100	79	101
4-Bromochlorobenzene	84.58	0	100	78	99
Fluorobenzene	87.93	0	100	76	103
				%REC	RPDLimit
				104.1%	115
				104.2%	115
				99.1%	115
				108.1%	115
				105.2%	115
				104.7%	115
				89.6%	101
				84.6%	99
				87.9%	103

Sample ID: CCV3 BTEX_0007	Batch ID: GC-1_000712	Test Code: SW8021B	Units: µg/L	Analysis Date: 7/12/2000	Prep Date:
Client ID: 0006070	Run ID: GC-1_000712A	PQL	SPK value	SeqNo: 29924	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	40.54	0.5	40	85	115
Ethylbenzene	40.45	0.5	40	85	115
m,p-Xylene	77.29	1	80	85	115
Methyl tert-Butyl Ether	35.83	1	40	85	115
o-Xylene	40.94	0.5	40	85	115
Toluene	40.74	0.5	40	85	115
1,4-Difluorobenzene	90.08	0	100	79	101
4-Bromochlorobenzene	88.66	0	100	78	99
Fluorobenzene	88.92	0	100	76	103
				%REC	RPDLimit
				101.3%	115
				101.1%	115
				96.6%	115
				89.6%	115
				102.3%	115
				101.8%	115
				90.1%	101
				88.7%	99
				88.9%	103

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: 0006070
Project: Cross Timbers - Sullivan GC D#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006066-03A	87.7	83.5	86.2
0006066-04A	87.5	81.9	85.6
0006066-06A	89.8	85.5	88.2
0006066-07A	89.7	84.9	88.1
0006069-01A	90	84.6	88.7
0006069-02A	89.7	85.2	88.1
0006069-03A	89.7	85.4	88.1
0006070-01A	86.4	83.8	85.7
0006070-02A	88.2	83.4	86.8
0006072-29A	89	84.6	87.4
0006072-29AMS	88.1	85.5	86.5
0006072-29AMSD	88.4	86	86.8
0006072-30A	88.6	84.3	86.9
0006072-32A	89.4	85.6	87.9
0006072-34A	88.8	85.6	87
0006073-01A	89.1	84.5	87.9
0006073-02A	90	84.8	88.6
0006074-01A	89.4	84.4	88.2
0006074-02A	89.7	84.9	88.2
0006074-03A	89.8	83.4	88.2
0006074-03AMS	87.5	84.5	86.8
0006074-03AMSD	87.5	85.4	86.6
0006074-04A	89.7	85.4	88.5
0007003-01A	89.9	84.9	88.4
0007005-01A	89.4	84.7	88.5
0007006-01A	90.4	83.9	88.6
0007006-02A	89.9	83.2	88.9

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108
FLBZ	= Fluorobenzene	76-103

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0006070
Project: Cross Timbers - Sullivan GC D#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0007006-03A	90.1	85.1	88.5
0007006-05A	90.4	85.1	88.5
0007006-06A	89.6	85.4	88.8
0007006-07A	89.7	84.8	88.6
0007007-01A	89.3	84.8	88.7
0007007-02A	107 *	86.4	88.8
0007007-03A	90	84.9	88.8
0007007-04A	149 *	85.4	103 *
0007007-05A	89.7	84.6	88.6
0007007-06A	89.8	84.8	88.4
0007007-07A	89.3	85	88.4
CCV1 BTEX_00070	89.5	85.4	87.6
CCV2 BTEX_00070	89.6	84.6	87.9
CCV3 BTEX_00070	90.1	88.7	88.9
LCS WATER	88.9	85.5	87
MBI	89.8	84.3	88.5

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108
FLBZ	= Fluorobenzene	76-103

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10767

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.Date : August 30, 2000SAMPLER : N J VFilename : 08-30-00.WK4PROJECT 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)
1R	100.82	92.30	8.52	15.00	-	-	-	-	-
2R	100.43	92.63	7.80	13.80	-	-	-	-	-
3	99.92	91.43	8.49	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	91.86	9.17	15.00	0925	7.2	4,100	3.00	

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.(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".Excellent recovery in MW # 5 . Collected BTEX samples from MW # 5 only .

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



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

ANALYTICAL REPORT

Date: 07-Sep-00

Client:	Blagg Engineering	Client Sample Info:	Sullivan GC D #1
Work Order:	0008052	Client Sample ID:	MW #5
Lab ID:	0008052-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Sullivan GC D #1	Collection Date:	8/30/2000 9:25:00 AM
		COC Record:	10767

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	9/1/2000
Toluene	0.6	0.5		µg/L	1	9/1/2000
Ethylbenzene	1.5	0.5		µg/L	1	9/1/2000
m,p-Xylene	1.8	1		µg/L	1	9/1/2000
o-Xylene	ND	0.5		µg/L	1	9/1/2000

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering
 Work Order: 0008052
 Project: Cross Timbers; Sullivan GC D #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000	Prep Date:						
Client ID:	0008052	Run ID: GC-1_000831A		SeqNo: 30974							
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	.1135	1									J
o-Xylene	ND	0.5									
Toluene	ND	0.5									

Sample ID: MB1	Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000	Prep Date:						
Client ID:	0008052	Run ID: GC-1_000901A		SeqNo: 30988							
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									
o-Xylene	ND	0.5									
Toluene	ND	0.5									

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: 07-Sep-00

CLIENT: Blagg Engineering
 Work Order: 0008052
 Project: Cross Timbers; Sullivan GC D #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0008053-02AMS		Batch ID: GC-1_000831		Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:	
Client ID: 0008052		Run ID: GC-1_000831A						SeqNo: 30975			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1967	25	2000	0	98.3%	88	112				
Ethylbenzene	2211	25	2000	128.1	104.1%	86	113				
m,p-Xylene	8232	50	4000	4139	102.3%	85	108				
o-Xylene	2752	25	2000	699	102.6%	92	110				
Toluene	2078	25	2000	12.03	103.3%	88	116				

Sample ID: 0008053-02AMSD		Batch ID: GC-1_000831		Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:		
Client ID:		0008052		Run ID: GC-1_000831A				SeqNo: 30976				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1928	25	2000	0	96.4%	88	112	1967	2.0%	6	
Ethylbenzene		2170	25	2000	128.1	102.1%	86	113	2211	1.9%	6	
m,p-Xylene		8081	50	4000	4139	98.6%	85	108	8232	1.8%	6	
o-Xylene		2708	25	2000	699	100.5%	92	110	2752	1.6%	6	
Toluene		2038	25	2000	12.03	101.3%	88	116	2078	1.9%	6	

Sample ID: 0008054-01AMS		Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000		Prep Date:				
Client ID:		0008052	Run ID: GC-1_000901A		SeqNo: 30989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	192.9	2.5	200	0	96.4%	88	112				
Ethylbenzene	210.7	2.5	200	5.1	102.8%	86	113				
m,p-Xylene	1029	5	400	600	107.3%	85	108				
o-Xylene	237.8	2.5	200	29	104.4%	92	110				
Toluene	210.5	2.5	200	9.8	100.4%	88	116				

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: 0008052
Project: Cross Timbers; Sullivan GC D #1

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

Sample ID: 0008054-01AMSD	Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000	Prep Date:
Client ID: 0008052	Run ID: GC-1_000901A	PQL	SPK value	SeqNo: 30990	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	192	2.5	0	88	112
Ethylbenzene	209.7	2.5	5.1	86	113
m,p-Xylene	1031	5	600	85	108
o-Xylene	244.2	2.5	29	92	110
Toluene	212.2	2.5	9.8	88	116
				%REC	
				96.0%	
				102.3%	
				107.8%	
				107.6%	
				101.2%	
					%RPD
					0.4%
					0.5%
					0.2%
					2.7%
					0.8%
				RPD Limit	RPD Ref Val
					192.9
					210.7
					1029
					237.8
					210.5
					Qual
					6
					6
					6
					6
					6

On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering
Work Order: 0008052
Project: Cross Timbers; Sullivan GC D #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS SOIL		Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000		Prep Date:					
Client ID:	0008052	Run ID: GC-1_000831A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	39.81		0.5	40	0	99.5%	96	111				
Ethylbenzene	42.34		0.5	40	0	105.8%	96	111				
m,p-Xylene	84.01		1	80	0.1135	104.9%	92	105				
o-Xylene	42.05		0.5	40	0	105.1%	97	110				
Toluene	41.37		0.5	40	0	103.4%	97	109				

Sample ID: LCS WATER	Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000	Prep Date:						
Client ID:	0008052	Run ID: GC-1_000901A		SeqNo: 30987							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.05	0.5	40	0	97.6%	96	111				
Ethylbenzene	41.7	0.5	40	0	104.2%	96	111				
m,p-Xylene	82.75	1	80	0	103.4%	92	105				
o-Xylene	41.44	0.5	40	0	103.6%	97	110				
Toluene	40.64	0.5	40	0	101.6%	97	109				

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: 07-Sep-00

CLIENT: Blagg Engineering
Work Order: 0008052
Project: Cross Timbers; Sullivan GC D #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000831	Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:		
Client ID:		0008052	Run ID:	GC-1_000831A		SeqNo: 30971					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.61	0.5	20	0	98.1%	85	115				
Ethylbenzene	21.04	0.5	20	0	105.2%	85	115				
m,p-Xylene	42.02	1	40	0	105.0%	85	115				
o-Xylene	21.04	0.5	20	0	105.2%	85	115				
Toluene	20.46	0.5	20	0	102.3%	85	115				
1,4-Difluorobenzene	84.76	0	100	0	84.8%	79	101				
4-Bromochlorobenzene	98.28	0	100	0	98.3%	78	99				
Fluorobenzene	78.67	0	100	0	78.7%	76	103				

Sample ID: CCV2 BTEX_0007		Batch ID: GC-1_000831		Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:				
Client ID: 0008052		Run ID: GC-1_000831A		PQL		SPK value		SeqNo: 30972						
Analyte	Result							%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.7			0.5		20		98.5%	85	115				
Ethylbenzene	20.72			0.5		20		103.6%	85	115				
m,p-Xylene	41.42			1		40		103.6%	85	115				
o-Xylene	20.73			0.5		20		103.7%	85	115				
Toluene	20.25			0.5		20		101.3%	85	115				
1,4-Difluorobenzene	84.9			0		100		84.9%	79	101				
4-Bromochlorobenzene	96.39			0		100		96.4%	78	99				
Fluorobenzene	79.35			0		100		79.4%	76	103				

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

QC SUMMARY REPORT
Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
Work Order: 0008052
Project: Cross Timbers; Sullivan GC D #1

Sample ID: CCV1 BTEX_0007	Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000	Prep Date:
Client ID: 0008052	Run ID: GC-1_000901A	PQL	SPK value	SeqNo: 30985	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	20.34	0.5	20	85	115
Ethylbenzene	21.8	0.5	20	85	115
m,p-Xylene	43.51	1	40	85	115
o-Xylene	21.7	0.5	20	85	115
Toluene	21.16	0.5	20	85	115
1,4-Difluorobenzene	88.03	0	100	79	101
4-Bromochlorobenzene	90.8	0	100	78	99
Fluorobenzene	86.95	0	100	76	103
				%REC	%RPD
				LowLimit	HighLimit
				RPD Ref Val	RPDLimit
				Qual	Qual

Sample ID: CCV2 BTEX_0007	Batch ID: GC-1_000901	Test Code: SW8021B	Units: µg/L	Analysis Date 9/1/2000	Prep Date:
Client ID: 0008052	Run ID: GC-1_000901A	PQL	SPK value	SeqNo: 30986	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	19.74	0.5	20	85	115
Ethylbenzene	20.95	0.5	20	85	115
m,p-Xylene	41.89	1	40	85	115
o-Xylene	20.96	0.5	20	85	115
Toluene	20.47	0.5	20	85	115
1,4-Difluorobenzene	88.44	0	100	79	101
4-Bromochlorobenzene	86.46	0	100	78	99
Fluorobenzene	87.57	0	100	76	103
				%REC	%RPD
				LowLimit	HighLimit
				RPD Ref Val	RPDLimit
				Qual	Qual

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: 0008052
Project: Cross Timbers; Sullivan GC D #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0008051-01A	79	91.2	87.2
0008052-01A	88	88	86.4
0008053-01A	85.6	96.5	80
0008053-02A	87.4	85.1	86.7
0008053-02AMS	84.2	97.2	78.8
0008053-02AMSD	84.6	97.2	78.7
0008054-01A	88.3	82.6	87.6
0008054-01AMS	87.1	91.4	87
0008054-01AMSD	87.1	90.3	87
0008054-02A	90	90.3	89.2
0008054-03A	83.9	94.5	80
0008054-04A	87.6	88.3	87.8
0009001-01A	88.8	89	87.8
0009003-01A	89	89.4	87.7
0009003-03A	88.8	89.1	87.9
CCV1 BTEX_00070	88	90.8	86.9
CCV2 BTEX_00070	88.4	86.5	87.6
LCS SOIL	84.4	98.3	78.7
LCS WATER	88	90.6	86.7
MB1	88.8	90.7	87.2

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
FLBZ	= Fluorobenzene	76-103

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10777

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED : ON - SITE TECH.

Date : December 5, 2000

SAMPLER : N J V

Filename : 12-05-00.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)
1R	100.82	93.10	7.72	15.00	-	-	-	-	-
2R	100.43	93.63	6.80	13.80	-	-	-	-	-
3	99.92	92.34	7.58	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.75	8.28	15.00	1000	7.5	4,400	3.25	

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".

Excellent recovery in MW # 5. Collected BTEX samples from MW # 5 only.

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



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

ANALYTICAL REPORT

Date: 15-Dec-00

Client:	Blagg Engineering	Client Sample Info:	Cross Timbers - Sullivan GC D#1
Work Order:	0012008	Client Sample ID:	MW-5
Lab ID:	0012008-01A	Matrix:	AQUEOUS
Project:	Cross Timbers - Sullivan GC D#1	Collection Date:	12/5/2000 10:00:00 AM
		COC Record:	10777

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	12/13/2000
Toluene	ND	0.5		µg/L	1	12/13/2000
Ethylbenzene	ND	0.5		µg/L	1	12/13/2000
m,p-Xylene	ND	1		µg/L	1	12/13/2000
o-Xylene	ND	0.5		µg/L	1	12/13/2000

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

Surrogate - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY SERVING INDUSTRY WITH THE ENVIRONMENT -



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

Page: 1 of 1

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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On Site Technologies, LTD.

Date: 15-Dec-00

CLIENT: Blagg Engineering
Work Order: 0012008
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000	Prep Date:						
Client ID:	0012008	Run ID: GC-1_001213A		SeqNo: 33377							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.1164	0.5									J
m,p-Xylene	.2034	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	.0837	0.5									
Toluene	ND	0.5									

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: 15-Dec-00

CLIENT: Blagg Engineering
Work Order: 0012008
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0012014-03AMS	Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000	Prep Date:
Client ID: 0012008	Run ID: GC-1_001213A	PQL	SPK value	SeqNo: 33378	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	2530	10	800	88	112
Ethylbenzene	1316	10	800	86	113
m,p-Xylene	3542	20	1600	85	108
Methyl tert-Butyl Ether	2082	20	800	86	117
o-Xylene	993.6	10	800	92	110
Toluene	1665	10	800	88	116
				%REC	RPD Ref Val
				98.1%	
				94.9%	
				93.9%	
				86.9%	
				96.1%	
				97.0%	

Sample ID: 0012014-03AMS	Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000	Prep Date:
Client ID: 0012008	Run ID: GC-1_001213A	PQL	SPK value	SeqNo: 33379	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	2459	10	800	88	112
Ethylbenzene	1279	10	800	86	113
m,p-Xylene	3441	20	1600	85	108
Methyl tert-Butyl Ether	2106	20	800	86	117
o-Xylene	968.2	10	800	92	110
Toluene	1616	10	800	88	116
				%REC	RPD Ref Val
				89.3%	2530
				90.2%	1316
				87.6%	3542
				89.9%	2082
				92.9%	993.6
				90.8%	1665
				2.8%	6
				2.9%	6
				2.9%	6
				1.1%	7
				2.6%	6
				3.0%	6

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: 15-Dec-00

CLIENT: Blagg Engineering

Work Order: 0012008

Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000	Prep Date:
Client ID: 0012008	Run ID: GC-1_001213A	PQL	SPK value	SeqNo: 33376	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	39.67	0.5	40	96	111
Ethylbenzene	38.58	0.5	40	96	111
m,p-Xylene	76.97	1	80	92	105
Methyl tert-Butyl Ether	39.07	1	40	93	113
o-Xylene	39	0.5	40	97	110
Toluene	39.19	0.5	40	97	109
				%REC	%RPD
				99.2%	
				96.2%	
				96.0%	
				97.7%	
				97.3%	
				98.0%	
				RPDRef Val	RPDLimit
				0	
				0.1164	
				0.2034	
				0	
				0.0837	
				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: 15-Dec-00

CLIENT: Blagg Engineering
Work Order: 0012008
Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0012		Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000		Prep Date:
Client ID: 0012008		Run ID: GC-1_001213A	PQL	SPK value	SPK Ref Val	SeqNo: 33373	
Analyte	Result					LowLimit	HighLimit
Benzene	20.19		0.5	20	0	85	115
Ethylbenzene	19.91		0.5	20	0	85	115
m,p-Xylene	39.65		1	40	0	85	115
Methyl tert-Butyl Ether	19.82		1	20	0	85	115
o-Xylene	19.96		0.5	20	0	85	115
Toluene	19.94		0.5	20	0	85	115
1,4-Difluorobenzene	74.08		0	80	0	70	130
4-Bromochlorobenzene	82.53		0	80	0	70	130
Fluorobenzene	74.74		0	80	0	70	130

Sample ID: CCV2 BTEX_0012		Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date 12/13/2000		Prep Date:
Client ID: 0012008		Run ID: GC-1_001213A	PQL	SPK value	SPK Ref Val	SeqNo: 33374	
Analyte	Result					LowLimit	HighLimit
Benzene	19.58		0.5	20	0	85	115
Ethylbenzene	19.29		0.5	20	0	85	115
m,p-Xylene	38.59		1	40	0	85	115
Methyl tert-Butyl Ether	19.41		1	20	0	85	115
o-Xylene	19.51		0.5	20	0	85	115
Toluene	19.42		0.5	20	0	85	115
1,4-Difluorobenzene	74.88		0	80	0	70	130
4-Bromochlorobenzene	80.82		0	80	0	70	130
Fluorobenzene	76.8		0	80	0	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: 0012008

Project: Cross Timbers - Sullivan GC D#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0012	Batch ID: GC-1_001213	Test Code: SW8021B	Units: µg/L	Analysis Date	12/13/2000	Prep Date:
Client ID:	0012008	Run ID: GC-1_001213A		SeqNo:	33375	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	38.44	0.5	40	0	96.1%	85 115
Ethylbenzene	37.27	0.5	40	0	93.2%	85 115
m,p-Xylene	74.24	1	80	0	92.8%	85 115
Methyl tert-Butyl Ether	38.56	1	40	0	96.4%	85 115
o-Xylene	37.86	0.5	40	0	94.7%	85 115
Toluene	37.98	0.5	40	0	94.9%	85 115
1,4-Difluorobenzene	75.12	0	80	0	93.9%	70 130
4-Bromochlorobenzene	81.04	0	80	0	101.3%	70 130
Fluorobenzene	76.31	0	80	0	95.4%	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: 0012008
Project: Cross Timbers - Sullivan GC D#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0012002-01A	92.2	97	95.9
0012002-03A	91.9	98.1	95.1
0012007-01A	90.3	96.7	92.5
0012007-02A	93.8	98.3	96.2
0012007-03A	88.2	94.7	90.2
0012007-04A	90.5	95	93.5
0012007-05A	95.3	99.6	96.6
0012008-01A	94.9	99.5	97.3
0012011-01A	95.2	100	97.4
0012011-02A	93.6	101	96.7
0012011-03A	96.1	104	99
0012011-04A	94.2	100	97.5
0012011-05A	94.3	100	96.3
0012014-01A	94	98.4	97.5
0012014-02A	94.9	100	97.1
0012014-03A	92.1	101	94
0012014-03AMS	92	101	93.8
0012014-03AMSD	92.4	101	93.2
0012014-04A	93.6	100	96.3
0012019-01A	94.3	100	97.3
0012019-02A	91	97.2	93.6
0012019-03A	84.4	88.3	87.1
CCV1 BTEX_00121	92.6	103	93.4
CCV2 BTEX_00121	93.6	101	96
CCV3 BTEX_00121	93.9	101	95.4
LCS WATER	93.2	103	95.6
MB1	93.5	104	94.6

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 : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 11044SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11WLABORATORY (S) USED : ON - SITE TECH.Date : March 21, 2001SAMPLER : N J VFilename : 03-21-01.WK4PROJECT 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)
1R	100.82	93.77	7.05	15.00	-	-	-	-	-
2R	100.43	94.46	5.97	13.80	-	-	-	-	-
3	99.92	93.20	6.72	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	93.55	7.48	15.00	1420	7.42	4,100	3.75	-

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".Excellent recovery in MW #5 . Collected BTEX samples from MW #5 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:	Sullivan GC D #1
Work Order:	0103028	Client Sample ID:	MW #5
Lab ID:	0103028-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Sullivan GC D #1	Collection Date:	3/21/2001 2:20:00 PM
		COC Record:	11044

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

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



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Page: _____ of _____

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103028
Project: Cross Timbers; Sullivan GC D #1

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:	0103028	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

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: Blagg Engineering
 Work Order: 0103028
 Project: Cross Timbers; Sullivan GC D #1

Sample ID: 0103008-01AMS		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001		Prep Date:				
Client ID:	0103028	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: 0103008-01AMSD		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103028		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: 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: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103028
Project: Cross Timbers; Sullivan GC D #1

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: 0103028	Run ID: GC-1_010321A	PQL	SPK value	SeqNo: 35872	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzene	39.67	0.5	40	0	99.2%
Ethylbenzene	41.4	0.5	40	0.0794	103.3%
m,p-Xylene	82.98	1	80	0.5522	103.0%
Methyl tert-Butyl Ether	40.98	1	40	0	102.4%
o-Xylene	41.51	0.5	40	0.1977	103.3%
Toluene	40.7	0.5	40	0.154	101.4%
				LowLimit	HighLimit
				92	109
				92	112
				91	108
				89	116
				93	109
				93	108
				%RPD	RPDLimit
					Qual

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: 23-Mar-01

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CLIENT: Blagg Engineering

Work Order: 0103028

Project: Cross Timbers; Sullivan GC D #1

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:		0103028	Run ID:	GC-1_010321A	SeqNo:	35869					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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:		0103028		Run ID:	GC-1_010321A		SeqNo: 35870				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 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: 0103028
Project: Cross Timbers; Sullivan GC D #1

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:		0103028	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:
 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: 0103028
Project: Cross Timbers; Sullivan GC D #1
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
IMB1	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 # : 11049

SULLIVAN GC D #1 - BLOW & SEP. PITS

LABORATORY (S) USED : ON - SITE TECH.

UNIT B, SEC. 26, T29N, R11W

Date : May 16, 2001SAMPLER : N J VFilename : 05-16-01.WK4PROJECT 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)
1R	100.82	93.51	7.31	15.00	1345	7.40	2,700	3.75	-
2R	100.43	94.07	6.36	13.80	-	-	-	-	-
3	99.92	92.98	6.94	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	93.28	7.75	15.00	-	-	-	-	-

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

Poor recovery in MW # 1R . Collected BTEX sample from MW #1R only .

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LAB: (505) 325-1556
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ANALYTICAL REPORT

Date: 31-May-01

Client:	Blagg Engineering	Client Sample Info:	Sullivan GC D #1
Work Order:	0105025	Client Sample ID:	MW #1R
Lab ID:	0105025-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Sullivan GC D#1	Collection Date:	5/16/2001 1:45:00 PM
		COC Record:	11049

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	180	0.5		µg/L	1	5/29/2001
Toluene	1	0.5		µg/L	1	5/29/2001
Ethylbenzene	3.5	0.5		µg/L	1	5/29/2001
m,p-Xylene	48	1		µg/L	1	5/29/2001
o-Xylene	4.9	0.5		µg/L	1	5/29/2001

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

Surrogate - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105025
Project: Cross Timbers; Sullivan GC D#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010529	Test Code: SW8021B	Units: µg/L	Analysis Date 5/29/2001	Prep Date:						
Client ID:	0105025	Run ID: GC-1_010529A		SeqNo: 38494							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0648	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.1722	0.5									J

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: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105025
Project: Cross Timbers; Sullivan GC D#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0105046-17AMS		Batch ID: GC-1_010529		Test Code: SW8021B		Units: µg/L		Analysis Date 5/29/2001		Prep Date:	
Client ID:		0105025		Run ID:		GC-1_010529A		SeqNo: 38495			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3902	50	4000	120.3	94.5%	70	130				
Ethylbenzene	3830	50	4000	52.46	94.4%	70	130				
m,p-Xylene	7228	100	8000	1.939	90.3%	70	130				
Methyl tert-Butyl Ether	12140	100	4000	7021	128.1%	70	130				
o-Xylene	3733	50	4000	0.8645	93.3%	70	130				
Toluene	3732	50	4000	2.609	93.2%	70	130				

Sample ID: 0105046-17AMSD		Batch ID: GC-1_010529		Test Code: SW8021B		Units: µg/L		Analysis Date 5/29/2001		Prep Date:	
Client ID:		0105025		Run ID:		GC-1_010529A		SeqNo: 38496			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3961	50	4000	120.3	96.0%	70	130	3902	1.5%	8	
Ethylbenzene	3894	50	4000	52.46	96.0%	70	130	3830	1.7%	7	
m,p-Xylene	7364	100	8000	1.939	92.0%	70	130	7228	1.9%	7	
Methyl tert-Butyl Ether	12190	100	4000	7021	129.3%	70	130	12140	0.4%	6	
o-Xylene	3802	50	4000	0.8645	95.0%	70	130	3733	1.8%	6	
Toluene	3790	50	4000	2.609	94.7%	70	130	3732	1.5%	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: 0105025

Project: Cross Timbers; Sullivan GC D#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010529	Test Code: SW8021B	Units: µg/L	Analysis Date 5/29/2001		Prep Date:				
Client ID:		0105025	Run ID: GC-1_010529A		SeqNo: 38493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.77	0.5	40	0.0648	99.3%	80	120				
Ethylbenzene	40.41	0.5	40	0	101.0%	80	120				
m,p-Xylene	77.06	1	80	0	96.3%	80	120				
Methyl tert-Butyl Ether	40.77	1	40	0	101.9%	80	120				
o-Xylene	39.25	0.5	40	0	98.1%	80	120				
Toluene	39.3	0.5	40	0.1722	97.8%	80	120				

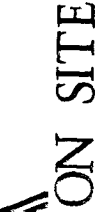
Qualifiers: NID - Not Detected at the Reporting Limit

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: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105025
Project: Cross Timbers; Sullivan GC D#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010529		Test Code: SW8021B		Units: µg/L		Analysis Date 5/29/2001		Prep Date:	
Client ID:		Run ID: 0105025		GC-1_010529A				SeqNo: 38491			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.94	0.5	20	0	99.7%	85	115				
Ethylbenzene	20.21	0.5	20	0	101.0%	85	115				
m,p-Xylene	38.76	1	40	0	96.9%	85	115				
Methyl tert-Butyl Ether	21.06	1	20	0	105.3%	85	115				
o-Xylene	19.71	0.5	20	0	98.6%	85	115				
Toluene	19.86	0.5	20	0	99.3%	85	115				
1,4-Difluorobenzene	75.4	0	80	0	94.3%	70	130				
4-Bromochlorobenzene	83.7	0	80	0	104.6%	70	130				
Fluorobenzene	76.03	0	80	0	95.0%	70	130				

Sample ID: CCV2 BTEX_0105		Batch ID: GC-1_010529		Test Code: SW8021B		Units: µg/L		Analysis Date 5/29/2001		Prep Date:	
Client ID:		Run ID: 0105025		GC-1_010529A				SeqNo: 38492			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.45	0.5	40	0	98.6%	85	115				
Ethylbenzene	39.68	0.5	40	0	99.2%	85	115				
m,p-Xylene	75.9	1	80	0	94.9%	85	115				
Methyl tert-Butyl Ether	41	1	40	0	102.5%	85	115				
o-Xylene	38.78	0.5	40	0	97.0%	85	115				
Toluene	39.19	0.5	40	0	98.0%	85	115				
1,4-Difluorobenzene	74.59	0	80	0	93.2%	70	130				
4-Bromochlorobenzene	83.04	0	80	0	103.8%	70	130				
Fluorobenzene	75.64	0	80	0	94.6%	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: 0105025
Project: Cross Timbers; Sullivan GC D#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105025-01A	92.9	102	93.7
0105026-01A	95.3	100	95.8
0105026-02A	93.1	94.9	95.7
0105045-01A	86.9	91.5	88.4
0105045-02A	92.8	97.3	94.3
0105045-03A	93.2	98.4	94.6
0105045-04A	95.1	104	95.7
0105045-05A	92	105	93.3
0105045-06A	93.1	102	93.2
0105046-06A	93.7	104	95
0105046-06AMS	92.6	99.5	94.5
0105046-06AMSD	92.5	100	93.8
0105046-14A	94.4	101	101
0105046-15A	96	99.5	99.2
0105046-16A	94.3	105	111
0105046-17A	93.9	104	95.2
0105046-17AMS	92.9	104	94.6
0105046-17AMSD	94.1	106	94.4
0105046-19A	94.4	107	99.2
0105046-23A	104	98	101
0105046-24A	94.6	98.6	95.8
0105046-25A	95.2	97.5	97.5
0105046-26A	93.1	97.4	94.4
0105046-27A	92.4	97.2	93.8
0105046-28A	94.5	105	95.1
0105046-29A	94.8	103	95.9
0105046-30A	94.7	102	95.6

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: 0105025
Project: Cross Timbers; Sullivan GC D#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105051-01A	87.7	89.7	90.9
CCV1 BTEX_01052	94.2	105	95
CCV2 BTEX_01052	93.2	104	94.6
CCV3 BTEX_01052	93.8	102	94.6
LCS WATER	93.5	105	95.2
MB1	95.1	102	95.2

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 # : 11995**SULLIVAN GC D # 1 - BLOW & SEP. PITS**
UNIT B, SEC. 26, T29N, R11WLABORATORY (S) USED : ON - SITE TECH.Date : June 27, 2002SAMPLER : N J VFilename : 06-27-02.WK4PROJECT 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)
1R	100.82	93.04	7.78	15.00	0635	7.55	11,300	1.75	-
3	99.92	92.69	7.23	10.00	-	-	-	-	-
4	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.81	8.22	15.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ (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 "Poor / fair recovery in MW # 1R . Collected BTEX sample from MW # 1R only .MW # 2 apparently destroyed during during of adjacent salt water disposal well onsame well pad .

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



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

ANALYTICAL REPORT

Date: 15-Jul-02

Client:	Blagg Engineering	Client Sample Info:	Sullivan GC D #1
Work Order:	0206055	Client Sample ID:	MW #1R
Lab ID:	0206055-01A	Matrix:	AQUEOUS
Project:	XTO - Sullivan GC D #1	Collection Date:	06/27/2002 6:35:00 AM
		COC Record:	11995

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	67	0.5		µg/L	1	07/10/2002
Toluene	ND	0.5		µg/L	1	07/10/2002
Ethylbenzene	4.8	0.5		µg/L	1	07/10/2002
m,p-Xylene	9.1	1		µg/L	1	07/10/2002
o-Xylene	ND	0.5		µg/L	1	07/10/2002

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted precision 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

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 15-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206055
Project: XTO - Sullivan GC D #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020710	Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002	Prep Date: 07/10/2002
Client ID:	0206055	Run ID: GC-1_020710A		SeqNo: 53940	
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	ND	0.5			

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: 15-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206055
Project: XTO - Sullivan GC D #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0207003-06AMS		Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002		Prep Date: 07/10/2002	
Client ID: 0206055		Run ID: GC-1_020710A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	15360	50		4000	10760	115.1%	70	130
Ethylbenzene	5174	50		4000	774.4	110.0%	70	130
m,p-Xylene	14760	100		8000	5746	112.7%	70	130
Methyl tert-Butyl Ether	4125	100		4000	0	103.1%	70	130
o-Xylene	5345	50		4000	1126	105.5%	70	130
Toluene	11420	50		4000	6960	111.4%	70	130

Sample ID: 0207003-06AMS		Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002		Prep Date: 07/10/2002	
Client ID: 0206055		Run ID: GC-1_020710A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	14970	50		4000	10760	105.4%	70	130
Ethylbenzene	5063	50		4000	774.4	107.2%	70	130
m,p-Xylene	14440	100		8000	5746	108.7%	70	130
Methyl tert-Butyl Ether	4079	100		4000	0	102.0%	70	130
o-Xylene	5250	50		4000	1126	103.1%	70	130
Toluene	11140	50		4000	6960	104.6%	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

On Site Technologies, LTD.

Date: 15-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206055
Project: XTO - Sullivan GC D #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020710		Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002		Prep Date: 07/10/2002	
Client ID:		0206055	Run ID: GC-1_020710A		SeqNo: 53939			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	40.26	0.5	40	0	100.7%	80	120	
Ethylbenzene	43.37	0.5	40	0	108.4%	80	120	
m,p-Xylene	86.07	1	80	0	107.6%	80	120	
Methyl tert-Butyl Ether	42.13	1	40	0	105.3%	80	120	
o-Xylene	41.35	0.5	40	0	103.4%	80	120	
Toluene	40.67	0.5	40	0	101.7%	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
 1 of 1

On Site Technologies, LTD.

Date: 15-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206055
Project: XTO - Sullivan GC D #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020710		Batch ID: GC-1_020710		Test Code: SW8021B		Units: µg/L		Analysis Date: 07/10/2002		Prep Date: 07/10/2002	
Client ID:		0206055		Run ID: GC-1_020710A				SeqNo: 53935			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.45	0.5	20	0	97.3%	85	115				
Ethylbenzene	21.14	0.5	20	0	105.7%	85	115				
m,p-Xylene	41.57	1	40	0	103.9%	85	115				
Methyl tert-Butyl Ether	20.6	1	20	0	103.0%	85	115				
o-Xylene	20.08	0.5	20	0	100.4%	85	115				
Toluene	19.71	0.5	20	0	98.5%	85	115				
1,4-Difluorobenzene	111.6	0	110	0	101.5%	70	130				
4-Bromochlorobenzene	123.3	0	110	0	112.1%	70	130				
Fluorobenzene	116.1	0	110	0	105.6%	70	130				

Sample ID: CCV2_020710	Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002				Prep Date: 07/10/2002					
Client ID:	0206055	Run ID:	GC-1_020710A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	19.61			0.5	20	0	98.1%	85	115				
Ethylbenzene	21.22			0.5	20	0	106.1%	85	115				
m,p-Xylene	41.69			1	40	0	104.2%	85	115				
Methyl tert-Butyl Ether	20.32			1	20	0	101.6%	85	115				
o-Xylene	20.12			0.5	20	0	100.6%	85	115				
Toluene	19.84			0.5	20	0	99.2%	85	115				
1,4-Difluorobenzene	110.9			0	110	0	100.9%	70	130				
4-Bromochlorobenzene	125.9			0	110	0	114.4%	70	130				
Fluorobenzene	115.9			0	110	0	105.4%	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: 0206055
Project: XTO - Sullivan GC D #1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3_020710		Batch ID: GC-1_020710		Test Code: SW8021B		Units: µg/L		Analysis Date: 07/10/2002			Prep Date: 07/10/2002	
Client ID:		0206055		Run ID:		GC-1_020710A		SeqNo: 53937				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	40.66	0.5	40	0	101.7%	85	115					
Ethylbenzene	43.53	0.5	40	0	108.8%	85	115					
m,p-Xylene	86.08	1	80	0	107.6%	85	115					
Methyl tert Butyl Ether	41.58	1	40	0	104.0%	85	115					
o-Xylene	41.47	0.5	40	0	103.7%	85	115					
Toluene	40.88	0.5	40	0	102.2%	85	115					
1,4-Difluorobenzene	111.4	0	110	0	101.3%	70	130					
4-Bromochlorobenzene	126.6	0	110	0	115.1%	70	130					
Fluorobenzene	115.5	0	110	0	105.0%	70	130					

Sample ID: CCV4_020710	Batch ID: GC-1_020710	Test Code: SW8021B	Units: µg/L	Analysis Date: 07/10/2002				Prep Date: 07/10/2002						
Client ID:	0206055	Run ID:	GC-1_020710A	PQL	SPK value	SPK Ref Val	%REC	SeqNo:	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
Benzene	20.37			0.5	20	0	101.8%		85	115				
Ethylbenzene	22.18			0.5	20	0	110.9%		85	115				
m,p-Xylene	43.54			1	40	0	108.8%		85	115				
Methyl tert-Butyl Ether	20.78			1	20	0	103.9%		85	115				
o-Xylene	21.24			0.5	20	0	106.2%		85	115				
Toluene	21.07			0.5	20	0	105.4%		85	115				
1,4-Difluorobenzene	111.6			0	110	0	101.5%		70	130				
4-Bromochlorobenzene	124.5			0	110	0	113.2%		70	130				
Fluorobenzene	116.4			0	110	0	105.8%		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: 0206055
 Project: XTO - Sullivan GC D #1
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0206055-01A	102	115	106
0206058-12A	102	114	106
0206058-16A	103	113	107
0206058-17A	100	114	105
0206058-18A	101	117	105
0206058-19A	101	112	106
0206060-15A	102	115	106
0207001-01A	101	117	106
0207001-02A	102	114	106
0207003-01A	102	113	106
0207003-02A	100	118	104
0207003-03A	100	115	105
0207003-04A	101	113	106
0207003-05A	101	116	105
0207003-06A	101	115	105
0207003-06AMS	100	116	104
0207003-06AMSD	100	116	104
0207003-07A	102	113	106
0207003-08A	102	113	106
0207003-09A	102	112	106
0207008-01A	101	113	106
0207008-02A	102	113	106
CCV1_020710	101	112	106
CCV2_020710	101	114	105
CCV3_020710	101	115	105
CCV4_020710	101	113	106
LCS_020710	101	113	105

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: 0206055
Project: XTO - Sullivan GC D #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
MB_020710	101	121	105

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 DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTC ENERGY, INC

CHAIN-OF-CUSTODY # : N / A

SULLIVAN GC D #1 - BLOW & SEP. PITS

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT B, SEC. 26, T29N, R11W

Date : June 27, 2003

SAMPLER : NJV

Filename : 06-27-03.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1R	100.82	92.86	7.96	15.00	1055	7.00	7,900	22.1	1.75
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	92.65	8.38	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/27/03 06:45

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:

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

Comments or note well diameter if not standard 2"

Poor / fair recovery in MW # 1R. Collected BTEX sample from MW # 1R only.

No discoloration observed during purging. Purging terminated @ time 1036. Depth to water = 9.30 ft. prior to sample collection. MW # 3 apparently destroyed during clearing / reconstruction of well pad.

Hall Environmental Analysis Laboratory

Date: 10-Jul-03

CLIENT: Blagg Engineering

Client Sample ID: MW #1R

Lab Order: 0306211

Collection Date: 6/27/2003 10:55:00 AM

Project: Sullivan GC D #1

Lab ID: 0306211-01

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	280	5.0		µg/L	5	7/8/2003
Toluene	ND	5.0		µg/L	5	7/8/2003
Ethylbenzene	10	5.0		µg/L	5	7/8/2003
Xylenes, Total	16	5.0		µg/L	5	7/8/2003
Surr: 1,2-Dichloroethane-d4	107	82.1-124		%REC	5	7/8/2003
Surr: 4-Bromofluorobenzene	103	76.2-122		%REC	5	7/8/2003
Surr: Dibromofluoromethane	101	67.2-131		%REC	5	7/8/2003
Surr: Toluene-d8	111	82.1-123		%REC	5	7/8/2003

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

[illegible]

Hall Environmental Analysis Laboratory

Date: 10-Jul-03

CLIENT: Blagg Engineering
Work Order: 0306211
Project: Sullivan GC D #1

QC SUMMARY REPORT
Method Blank

Sample ID	5ml rb	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date	7/8/2003	Prep Date				
Client ID:		Run ID:	THOR_030708A		SeqNo:	198240					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	1.0									
Surr: 1,2-Dichloroethane-d4	10.03	0	10	0	100	82.1	124	0			
Surr: 4-Bromofluorobenzene	11.28	0	10	0	113	76.2	122	0			
Surr: Dibromofluoromethane	9.57	0	10	0	95.7	67.2	131	0			
Surr: Toluene-d8	10.56	0	10	0	106	82.1	123	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

/

QC SUMMARY REPORT

Method Blank

CLIENT: Blagg Engineering

Work Order: 0306211

Project: Sullivan GC D #1

Sample ID	5ml rb	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date	7/8/2003	Prep Date				
Client ID:		Run ID:	THOR_030708A		SeqNo:	198234					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

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
2

QC SUMMARY REPORT

Method Blank

CLIENT: Blagg Engineering
 Work Order: 0306211
 Project: Sullivan GC D #1

1,2-Dibromo-3-chloropropane	ND	2.0
Dibromochloromethane	ND	1.0
Dibromomethane	ND	2.0
1,2-Dichlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
Dichlorodifluoromethane	ND	1.0
1,1-Dichloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
1,3-Dichloropropane	ND	1.0
2,2-Dichloropropane	ND	1.0
1,1-Dichloropropene	ND	1.0
Hexachlorobutadiene	ND	1.0
2-Hexanone	ND	10
Isopropylbenzene	ND	1.0
4-Isopropyltoluene	ND	1.0
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3.0
n-Butylbenzene	ND	1.0
n-Propylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
Styrene	ND	1.0
tert-Butylbenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Tetrachloroethene (PCE)	ND	1.0
trans-1,2-DCE	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1,2-Trichloroethane	ND	1.0

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

QC SUMMARY REPORT

Method Blank

CLIENT: Blagg Engineering

Work Order: 0306211

Project: Sullivan GC D #1

Compound	Concentration (ppm)	Retention Time (min)	Peak Area	Peak Height	Peak Width (min)	Peak Shape	Peak Type	Peak Label
Trichloroethene (TCE)	ND	1.0						
Trichlorofluoromethane	ND	1.0						
1,2,3-Trichloropropane	ND	2.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	1.0						
Surr: 1,2-Dichloroethane-d4	10.03	0	10	0	100	74.6	123	0
Surr: 4-Bromofluorobenzene	11.28	0	10	0	113	79.5	118	0
Surr: Dibromofluoromethane	9.57	0	10	0	95.7	78.6	117	0
Surr: Toluene-d8	10.56	0	10	0	106	80	119	0

Qualifiers:

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

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: 10-Jul-03

CLIENT: Blagg Engineering

Work Order: 0306211

Project: Sullivan GC D #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	50ng ccv	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date	7/8/2003	Prep Date				
Client ID:		Run ID:	THOR_030708A		SeqNo:	198241					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9.914	1.0	10	0	99.1	85.3	120	0			
Toluene	10.71	1.0	10	0	107	82.5	120	0			
Ethylbenzene	10.38	1.0	10	0	104	80	120	0			
Xylenes, Total	31.28	1.0	30	0	104	80	120	0			

Sample ID	100ng lcs	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date	7/8/2003	Prep Date				
Client ID:		Run ID: THOR_030708A			SeqNo: 198235						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.11	1.0	20	0	95.5	71.2	122	0			
Toluene	21.83	1.0	20	0	109	87.7	122	0			
Chlorobenzene	23.65	1.0	20	0	118	85.6	136	0			
1,1-Dichloroethene	17.16	1.0	20	0	85.8	70.7	117	0			
Trichloroethene (TCE)	18.61	1.0	20	0	93.1	76.9	130	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

6/30/03

Work Order Number **0306211**

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 ☒
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?

2°

4° C ± 2 Acceptable

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: XTC ENERGY INC.

CHAIN-OF-CUSTODY #: N/A

SULLIVAN GC D # 1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: June 16, 2004

SAMPLER: NJV

Filename: 06-16-04.WK4

PROJECT MANAGER: NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1R	100.82	93.09	7.73	15.00	1140	7.02	8,800	20.7	1.50
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03		-	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/16/04 1130

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:

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

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW # 1R. Collected BTEX sample from MW # 1R only.

No discoloration observed during purging. Purging terminated @ time 1130. Depth to water = 9.60 ft. prior to sample collection. MW # 3 apparently destroyed during clearing / reconstruction of well pad.

Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering

Client Sample ID: MW #1R

Lab Order: 0406175

Collection Date: 6/16/2004 11:40:00 AM

Project: Sullivan GC D #1

Lab ID: 0406175-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	400	2.5		µg/L	5	6/25/2004 12:55:02 PM
Toluene	ND	2.5		µg/L	5	6/25/2004 12:55:02 PM
Ethylbenzene	6.8	2.5		µg/L	5	6/25/2004 12:55:02 PM
Xylenes, Total	12	2.5		µg/L	5	6/25/2004 12:55:02 PM
Surr: 4-Bromofluorobenzene	104	74-118		%REC	5	6/25/2004 12:55:02 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 1 / 4

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Client: BLAKE EXER. / XTO ENERGY

Address: P.O. BOX 87

BLED, NM 87413

Phone #: 505-632-1199

Fax #: 505-632-3903

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂

HNO₃

HEAL No.

6/16/04 1140 WATER MW #1R 2-40ml ✓ 82215-1

Date:

Time:

Relinquished By: (Signature)

Received By: (Signature)

Date:

Time:

Relinquished By: (Signature)

Received By: (Signature)

Accreditation Agency:

NELAC ☐ USACC ☐

Other:

Project Name:

SULLIVAN GC D #1

Project #:

95

Project Manager:

NJV

Sampler:

NJV

Sample Temperature:

4°C

ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)

(BTEX) + MTBE + TMBs (80218) ✓

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, NO₂, NO₃, PO₄, SO₄)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D

Albuquerque, New Mexico 87109

Tel. 505.345.3975 Fax 505.345.4107

www.hallenvironmental.com

Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering
Work Order: 0406175
Project: Sullivan GC D #1

QC SUMMARY REPORT

Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R12276	Test Code: SW8021	Units: µg/L	Analysis Date 6/25/2004 8:13:54 AM	Prep Date					
Client ID:			Run ID: PIDFID_040625A		SeqNo: 282684						
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	20.13	0	20	0	101	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: 29-Jun-04

CLIENT: Blagg Engineering
 Work Order: 0406175
 Project: Sullivan GC D #1

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R12276	Test Code: SW8021	Units: µg/L	Analysis Date	6/25/2004 9:15:51 AM	Prep Date				
Client ID:		Run ID:	PIDFID_040625A		SeqNo:	282714					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.97	0.5	20	0	105	81.3	121	0			
Toluene	20.98	0.5	20	0	105	84.9	118	0			
Ethylbenzene	21.03	0.5	20	0	105	53.8	149	0			
Xylenes, Total	64.11	0.5	60	0	107	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:

6/17/2004

Work Order Number 0406175

Received by AT

Checklist completed by

Anne Ihn
Signature

6/17/04
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?

4°

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: VTC ENERGY INC

CHAIN-OF-CUSTODY #: N / A

SULLIVAN GC D #1 - BLOW & SEP. PITS
UNIT B, SEC. 26, T29N, R11W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: June 28, 2005

SAMPLER: N J V

Filename: 06-28-05.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.)
1R	100.82	92.11	8.71	15.00	1405	6.90	11,100	22.2	1.50
3	UNABLE TO LOCATE - APPARENTLY DESTROYED								
5	101.03	-	-	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =
DATE & TIME =

7.00	2,800
06/28/05	1400

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:

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

Comments or note well diameter if not standard 2 "

Poor / fair recovery in MW # 1R. Collected BTEX sample from MW # 1R only.

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: Blagg Engineering
Lab Order: 0506285
Project: Sullivan GC D #1
Lab ID: 0506285-01

Client Sample ID: MW #1R
Collection Date: 6/28/2005 2:05:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	130	0.50		µg/L	1	7/1/2005 10:28:01 AM
Toluene	ND	0.50		µg/L	1	7/1/2005 10:28:01 AM
Ethylbenzene	7.4	0.50		µg/L	1	7/1/2005 10:28:01 AM
Xylenes, Total	6.4	0.50		µg/L	1	7/1/2005 10:28:01 AM
Surr: 4-Bromofluorobenzene	99.2	83.3-121		%REC	1	7/1/2005 10:28:01 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

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

CHAIN-OF-CUSTODY RECORD

Client: BERGG ENER. / XTO ENERGY

Address: P.O. BOX 87

BLFD, NM 87413

Phone #: (505) 632-1199

Fax #: (505) 632-3903

Date: 6/28/05

Time: 1405

Matrix: WATER

Sample I.D. No. MW #112

Number/Volume: 2-40ml

Preservative

HgCl₂ HNO₃

✓

HEAL No. 0506285-1

Accreditation Applied:

NELAC ☐ US ☐

Other:

Project Name:

SULLIVAN GC D #1

Project #:

NV

Project Manager:

NV

Sampler:

NV

Sample Temperature:

4°C

ANALYSIS REQUEST

(BTEX + MTBE + TMB's (80218))

BTEX + MTBE + TPH (Gasoline Only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PMA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

Received By: (Signature) [Signature] 6/29/05

Relinquished By: (Signature) [Signature]

Date: 6/29/05

Time: 0900

Received By: (Signature) [Signature] 6/29/05

Relinquished By: (Signature) [Signature]

Date: 6/29/05

Time: 0900

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: Blagg Engineering
Work Order: 0506285
Project: Sullivan GC D #1

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	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	17.44	0	20	0	87.2	83.3	121	0			

Sample ID	Reagent Blank 5m	Batch ID: R15868	Test Code: SW8021	Units: µg/L	Analysis Date	7/1/2005 8:47:19 AM	Prep Date				
Client ID:			Run ID: PIDFID_050701A		SeqNo:	376332					
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	18.33	0	20	0	91.7	83.3	121	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: 05-Jul-05

CLIENT: Blagg Engineering
Work Order: 0506285
Project: Sullivan GC D #1

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			

Sample ID	BTEX LCS 100ng	Batch ID: R15868	Test Code: SW8021	Units: µg/L	Analysis Date	7/1/2005 11:29:43 AM	Prep Date				
Client ID:			Run ID: PIDFID_050701A		SeqNo:	376335					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.5	20	0	97.5	88.7	114	0			
Toluene	19.23	0.5	20	0	96.2	89.3	112	0			
Ethylbenzene	19.32	0.5	20	0	96.6	88.6	113	0			
Xylenes, Total	58.12	0.5	60	0	96.9	89.4	112	0			

Sample ID	BTEX LCSD 100n	Batch ID: R15868	Test Code: SW8021	Units: µg/L	Analysis Date	7/1/2005 12:00:45 PM	Prep Date				
Client ID:			Run ID: PIDFID_050701A		SeqNo:	376336					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.74	0.5	20	0	98.7	88.7	114	19.5	1.21	27	
Toluene	19.96	0.5	20	0	99.8	89.3	112	19.23	3.73	19	
Ethylbenzene	19.91	0.5	20	0	99.5	88.6	113	19.32	3.01	10	
Xylenes, Total	58.99	0.5	60	0	98.3	89.4	112	58.12	1.48	13	

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

Name **BLAGG**

Date and Time Received:

6/29/2005

Work Order Number 0506285

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 ☐
r - 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 _____