

3R - 128

REPORTS

DATE:

2005



3R0128

May 15, 2006

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

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten:

XTO Energy Inc. (XTO) is presenting a second submission of the Annual Groundwater Remediation Report in accordance with the NMOCD approved Groundwater Management Plan (GMP), which will complete this years reporting. Enclosed are summary reports with analytical data, summary tables, site maps, potentiometric surface diagrams and recommendations/proposed actions for:

- Baca Gas Com A #1A
- Frost, Jack B #2
- Haney Gas Com B #1E
- Hare Gas Com B #1E
- Masden Gas Com #1E
- McDaniel Gas Com B #1E
- Snyder Gas Com #1A
- Stedje Gas Com #1
- Sullivan Frame A #1E

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,

A handwritten signature in black ink that reads "Lisa Winn".

Lisa Winn
Environmental Specialist
San Juan Division

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

3R0128

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2005

**STEDJE GC #1
(F) SECTION 27 – T30N – R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

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

APRIL 2006

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Field Sampling Data Summaries

Laboratory Reports

Pit Assessment Report (4/92)

Pit Closure Report (7-8/93)

**XTO Energy Inc.
Stedje GC #1
SE/4 NW/4 S27, T30N, R12W**

Pit Assessment Date: 4/30/92 (Documentation Included)

Pit Closure Date: 7-8/93 (Documentation Included)

Monitor Well Installations: 11/11/99

Monitor Well Sampling: 11/29/99, 2/21/00, 3/15/00, 6/19/00

Historical Information:

- April 1992- Groundwater impacts were found during a pit assessment at a site operated by Amoco Production Company (Amoco).
- July/August 1993- Amoco excavated more than 230 cubic yards of hydrocarbon impacted soil.
- January 1998- XTO Energy Inc. (XTO) acquired the Stedje GC #1 from Amoco.
- November 1999- Monitor wells MW1, MW2 and MW3 were installed to evaluate groundwater quality.
- May 2001- Original request submitted for site closure.
- December 2001- Correspondence was received from New Mexico Oil Conservation Division (NMOCD) denying the request for closure pending submittal of four consecutive quarters of sample analyses and further down gradient delineation of groundwater quality.
- April 2006- XTO submits annual groundwater report recommending continued monitoring and installation of down gradient groundwater monitor well.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (Figure 1) 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 & 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:

Groundwater elevation data (Figure 2 - 4) indicates that groundwater trends towards the northwest.

XTO understands the initial evaluation of groundwater impact came from samples collected in test holes.

during the assessment phase followed by groundwater samples collected from the pit bottom during excavation. In 1999 groundwater monitoring wells were installed to delineate the extent of hydrocarbon impacts. Monitoring well numbered MW#2 located near the source area and down gradient of MW#3 exhibited BTEX concentration in excess of New Mexico Water Quality Control Commission (NMWQCC) standards during 1999 and trace or no detectable levels of hydrocarbon impact in subsequent sampling events (Table 1). Monitoring well MW#1 was located cross gradient from the source area and no levels of BTEX constituents were detected during the 1999 sample event.

Summary:

Analytical data from 2000 groundwater monitoring well sampling event indicated that groundwater quality standards were observed. Correspondence from NMOCD in 2001 requested four consecutive quarters of testing in compliance with XTO's Groundwater Management Plan, and installation of groundwater monitoring wells to further delineate groundwater conditions of the site. As requested by the NMOCD, XTO proposes installation of additional groundwater monitor well(s) and to place this site on a quarterly sampling schedule.

TABLE 1

XTO ENERGY INC. GROUNDWATER MONITOR WELL LAB RESULTS
SUBMITTED BY BLAGG ENGINEERING, INC.

**STEDJE GC #1 - SEPARATOR PIT
UNIT F, SEC. 27, T30N, R12W**

REVISED: JULY 10, 2000

FILENAME: (S1-2Q-00.WK4) NJV

SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS mg/L	COND. umhos	pH	PRODUCT (in)	BTEX EPA METHOD 8021 (PPB)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
29-Nov-99	MW #1	11.51	15.00	466	935	7.2		ND	ND	ND	ND
21-Feb-00		11.59						-	-	-	-
29-Nov-99	MW #2	10.80	15.00	450	910	7.1		50.0	37.3	124	621.8
15-Mar-00		10.57			800	7.3		ND	ND	ND	ND
19-Jun-00		9.75			500	7.6		ND	ND	0.8	ND
29-Nov-99	MW #3	10.51	15.00	475	960	7.2		9.9	3.5	75	154.6
21-Feb-00		10.61			700	7.7		ND	ND	ND	ND
19-Jun-00		9.50			1,100	7.5		ND	ND	ND	ND

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

SAMPLE DATE : November 29, 1999

PARAMETERS	MW # 1	MW # 2	MW # 3	Units
LAB pH	7.17	7.14	7.15	s. u.
LAB CONDUCTIVITY @ 25 C	935	910	960	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	466	450	475	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	460	430	460	mg / L
SODIUM ABSORPTION RATIO	0.0	0.6	0.6	ratio
TOTAL ALKALINITY AS CaCO ₃	212	198	210	mg / L
TOTAL HARDNESS AS CaCO ₃	372	298	322	mg / L
BICARBONATE as HCO ₃	212	198	210	mg / L
CARBONATE AS CO ₃	< .01	< .01	< .01	mg / L
HYDROXIDE AS OH	< 0.1	< 0.1	< 0.1	mg / L
NITRATE NITROGEN	0.1	0.1	0.4	mg / L
NITRITE NITROGEN	0.002	0.002	0.006	mg / L
CHLORIDE	24.0	23.3	32.0	mg / L
FLUORIDE	1.12	0.60	0.94	mg / L
PHOSPHATE	0.4	2.2	0.7	mg / L
SULFATE	160	145	150	mg / L
IRON	0.01	0.08	0.01	mg / L
CALCIUM	122	105	107	mg / L
MAGNESIUM	16.6	8.8	13.2	mg / L
POTASSIUM	4.5	2.1	4.4	mg / L
SODIUM	< 0.1	23.2	23.5	mg / L
CATION / ANION DIFFERENCE	0.17	0.02	0.19	%

FIGURE 1

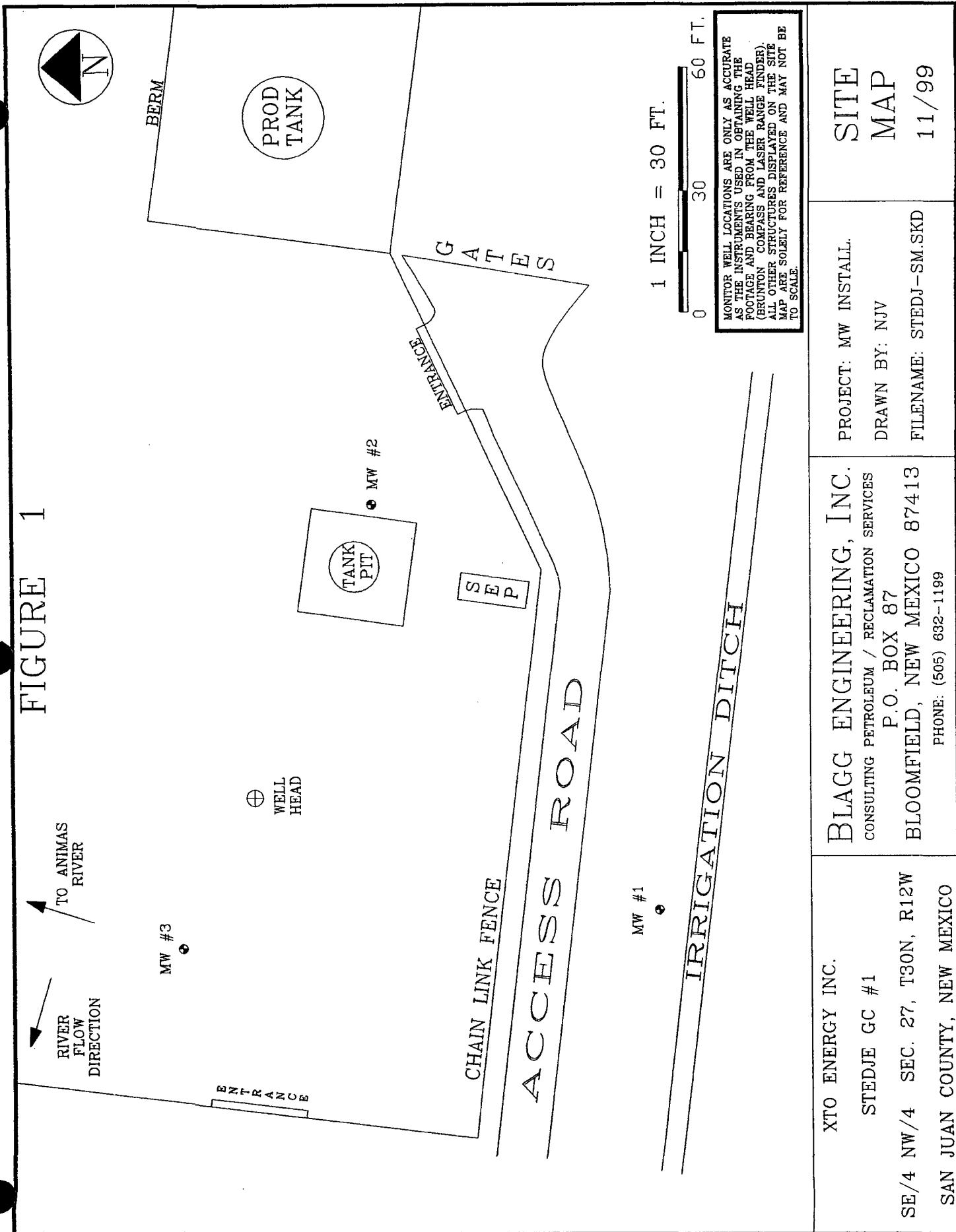


FIGURE 2
(4th 1/4, 1999)

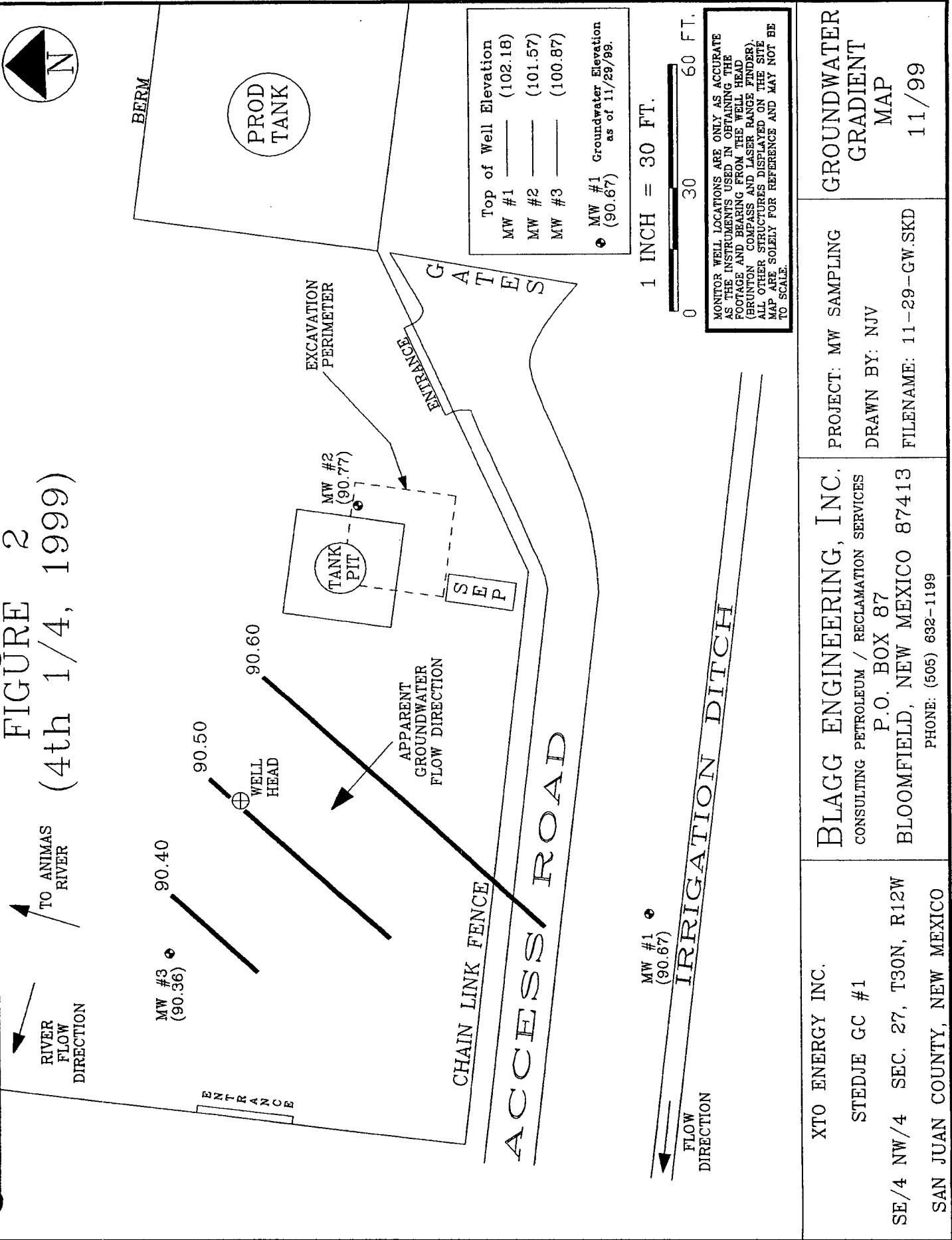
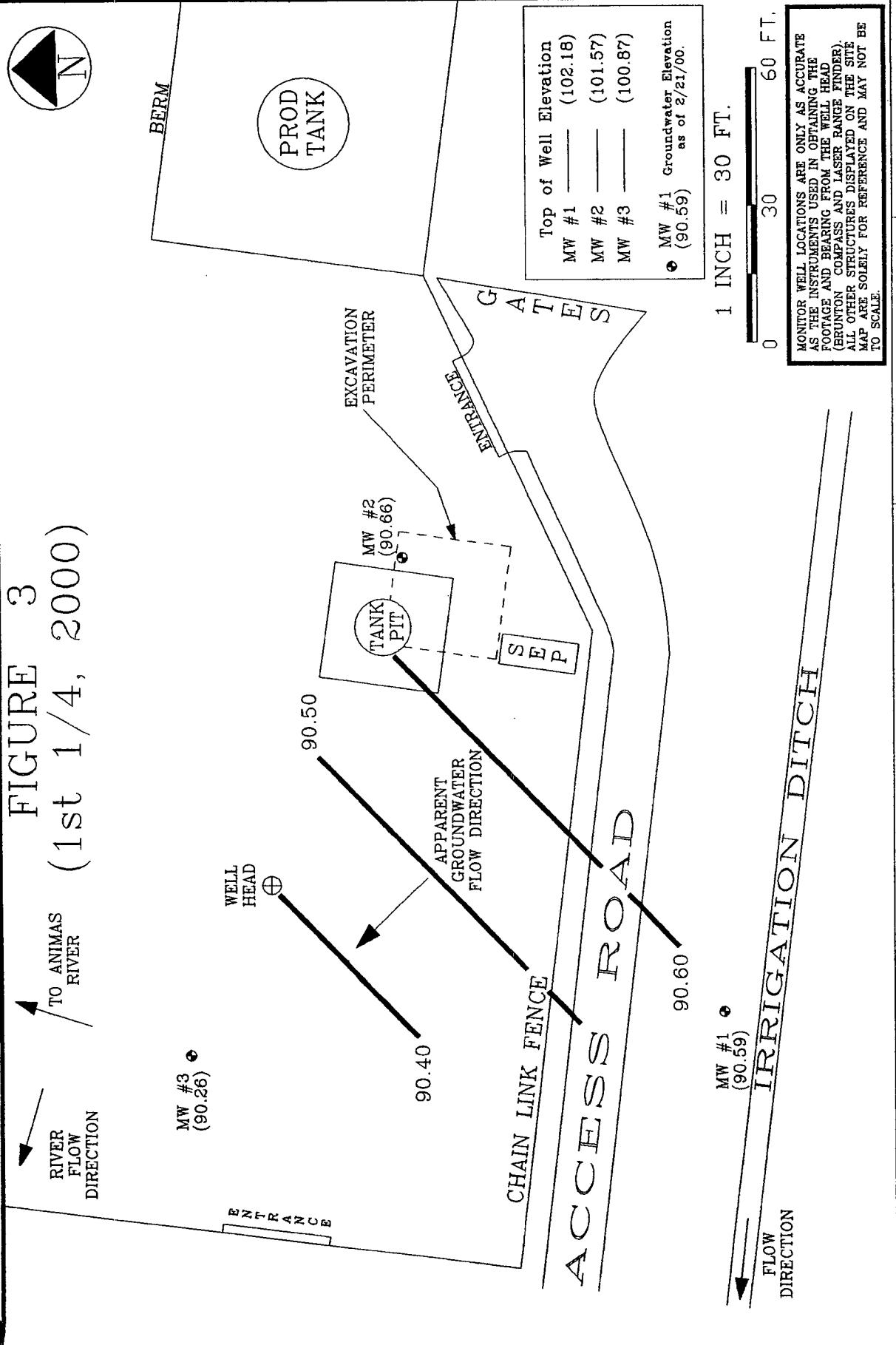


FIGURE 3
 (1st 1/4, 2000)



XTO ENERGY INC. STEDJE GC #1 SE/4 NW/4 SEC. 27, T30N, R12W 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: 02-21-GW.SKD	GROUNDWATER GRADIENT MAP 02/00
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MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRONZE COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

FIGURE 4
(2nd 1/4, 2000)

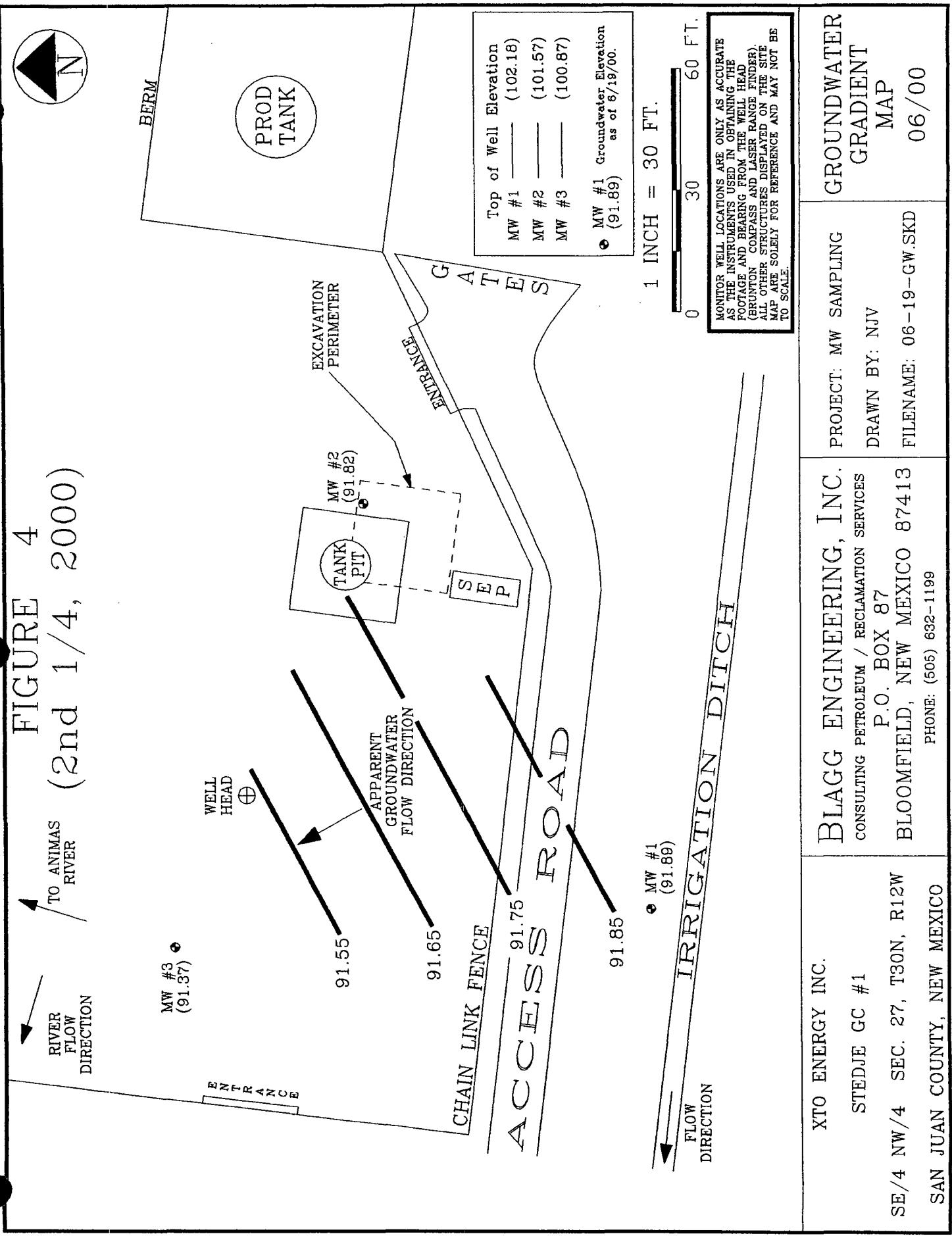


FIGURE 5
BLAGG ENGINEERING, Inc.
 P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

BORE / TEST HOLE REPORT				BORING # BH - 1
				MW # 1
				PAGE # 1
				DATE STARTED 11/11/99
				DATE FINISHED 11/11/99
				OPERATOR..... DE
				PREPARED BY NJV
DEPTH	INTERVAL	LITHOLOGY	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
		GROUND SURFACE		
1		TOP OF CASING APPROX. 1.40 FT. ABOVE GROUND SURFACE.		
2		DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.00 - 6.00 FT. INTERVAL).		
3				
4				
5				
6				
7		DARK YELLOWISH ORANGE SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (6.00 - 14.00 FT. INTERVAL).		
8				
9				
10		▼ GW DEPTH ON 11/29/99 = 10.11 FT. (APPROX.) FROM GROUND SURFACE.		
11				
12				
13				
14				
15				
16		NOTE: ■ - SAND.		
17				
18				
19		■■■ - SAND AND GRAVEL.		
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE. TOS - TOP OF SCREEN FROM GROUND SURFACE. GW - GROUND WATER.				DRAWING: BH-1.SKD
				DATE: 1/29/00
				DWN BY: NJV

FIGURE 6
BLAGG ENGINEERING, Inc.
 P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

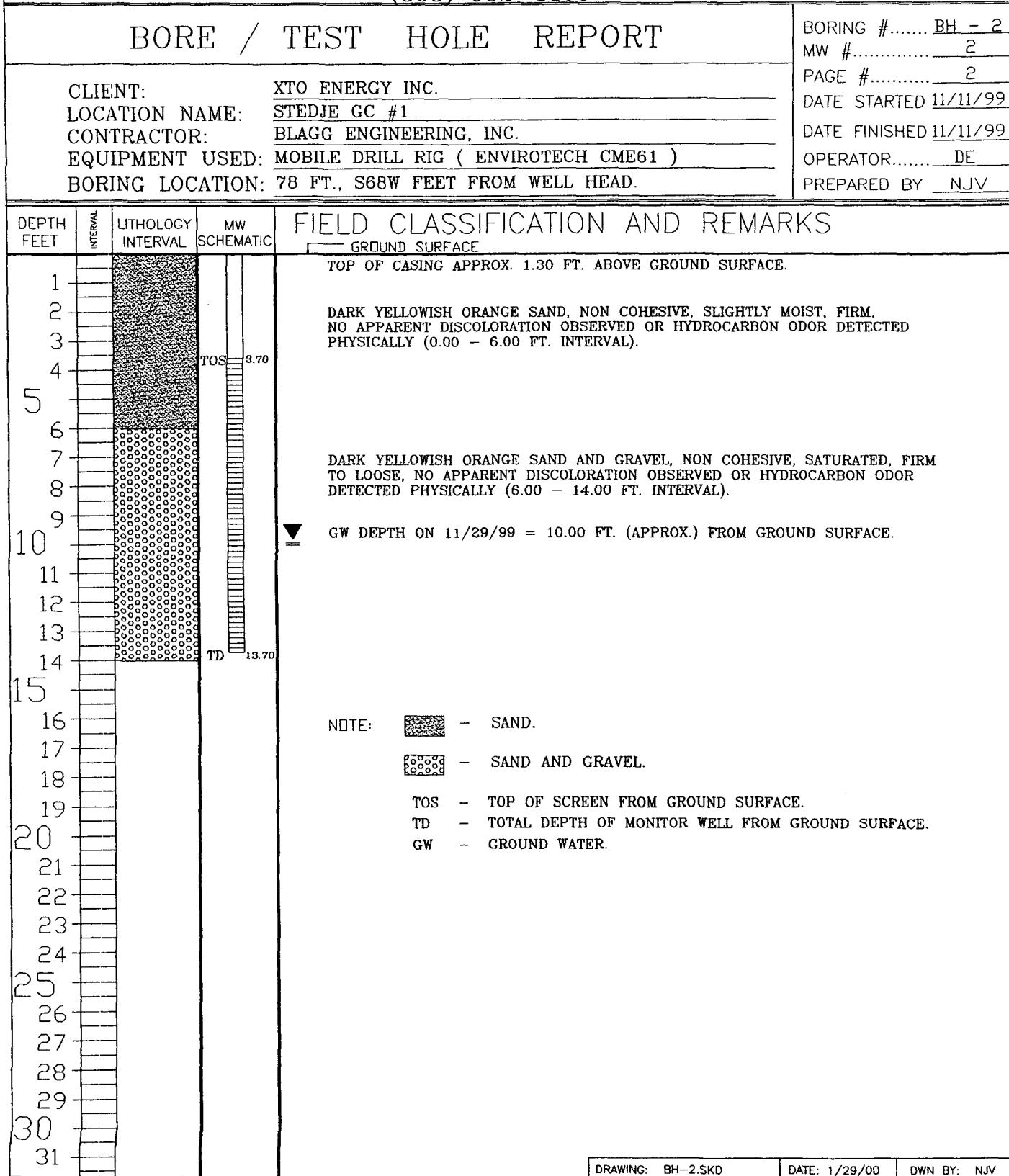
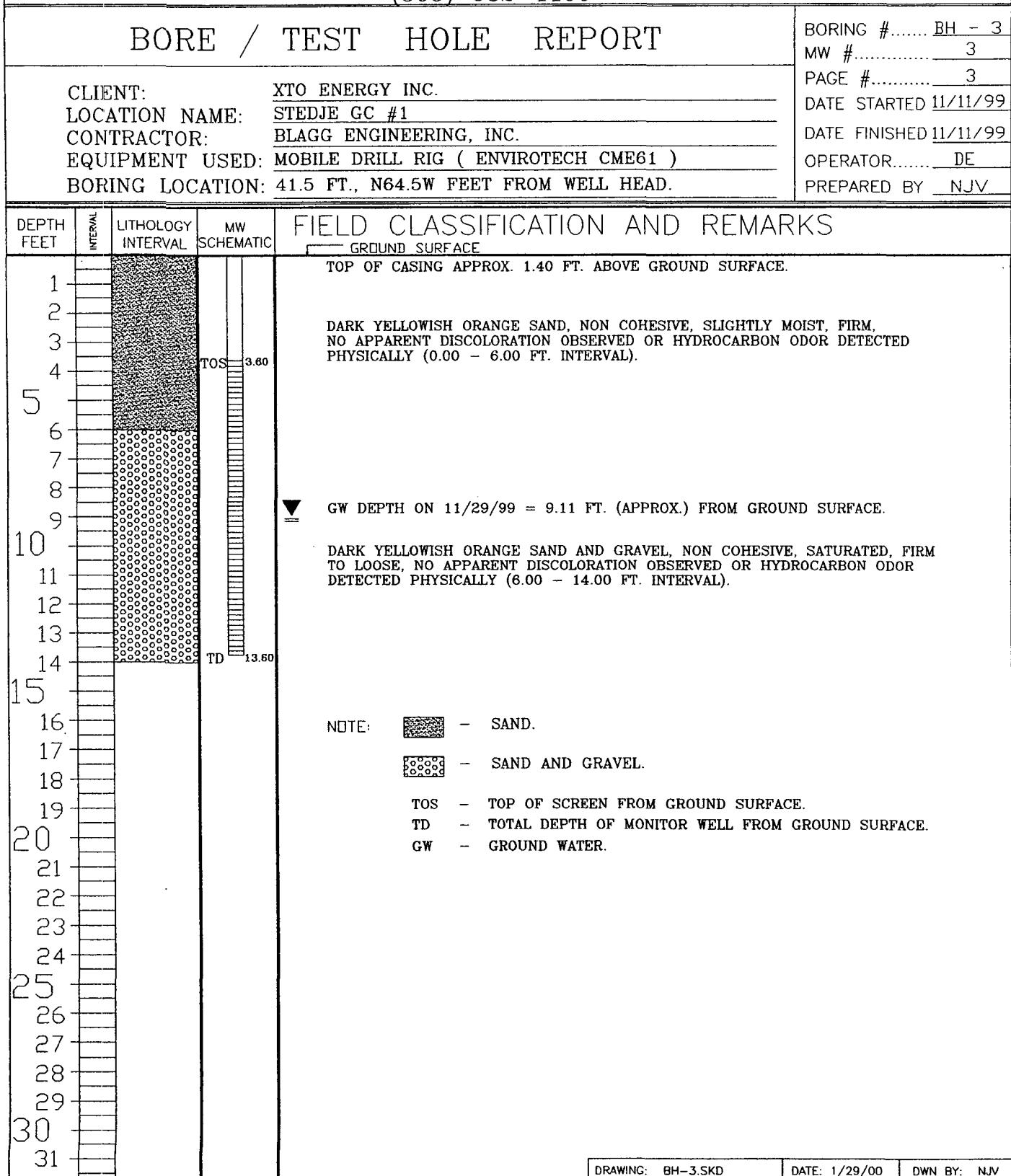


FIGURE 7
BLAGG ENGINEERING, Inc.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199



BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT: CROSS TIMBERS OPER. CO.

CHAIN-OF-CUSTODY #: 7313

LOCATION: STEDJE GC # 1

LABORATORY(S) USED: ENVIROTECH, INC.

Date: November 29, 1999

SAMPLER: R E P

Filename: 11-29-99.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.18	90.67	11.51	15.00	1150	7.9	700	1.75	-
2	101.57	90.77	10.80	15.00	1215	7.4	600	2.00	-
3	100.87	90.36	10.51	15.00	1135	7.5	800	2.25	-

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

(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".

Collected BTEX and anion / cation samples for all MW's listed above.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 1	Date Reported:	11-30-99
Chain of Custody:	7313	Date Sampled:	11-29-99
Laboratory Number:	G503	Date Received:	11-29-99
Sample Matrix:	Water	Date Analyzed:	11-30-99
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	ND	1	0.1
Total Xylene	ND		
Total BTEX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Stedje GC #1.

Daniel P. Queen
Analyst

Christina M. Walter
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 2	Date Reported:	11-30-99
Chain of Custody:	7313	Date Sampled:	11-29-99
Laboratory Number:	G504	Date Received:	11-29-99
Sample Matrix:	Water	Date Analyzed:	11-30-99
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	50.0	1	0.2
Toluene	37.3	1	0.2
Ethylbenzene	124	1	0.2
p,m-Xylene	564	1	0.2
o-Xylene	57.8	1	0.1
Total Xylene	622		
Total BTEX	833		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Stedje GC #1.

Debra L. Spencer
Analyst

Christin M. Waeltz
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 3	Date Reported:	11-30-99
Chain of Custody:	7313	Date Sampled:	11-29-99
Laboratory Number:	G505	Date Received:	11-29-99
Sample Matrix:	Water	Date Analyzed:	11-30-99
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	9.9	1	0.2
Toluene	3.5	1	0.2
Ethylbenzene	75.0	1	0.2
p,m-Xylene	143	1	0.2
o-Xylene	11.6	1	0.1
Total Xylene	155		
Total BTEX	243		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Stedje GC #1.

Desiree P. Opimus
Analyst

Christine M. Whetstone
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #1	Date Reported:	12-01-99
Laboratory Number:	G503	Date Sampled:	11-29-99
Chain of Custody:	7313	Date Received:	11-29-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	11-30-99
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.17	s.u.		
Conductivity @ 25° C	935	umhos/cm		
Total Dissolved Solids @ 180C	466	mg/L		
Total Dissolved Solids (Calc)	460	mg/L		
SAR	0.0	ratio		
Total Alkalinity as CaCO ₃	212	mg/L		
Total Hardness as CaCO ₃	372	mg/L		
Bicarbonate as HCO ₃	212	mg/L	3.47	meq/L
Carbonate as CO ₃	<.01	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	24.0	mg/L	0.68	meq/L
Fluoride	1.12	mg/L	0.06	meq/L
Phosphate	0.4	mg/L	0.01	meq/L
Sulfate	160	mg/L	3.33	meq/L
Iron	0.01	mg/L		
Calcium	122	mg/L	6.09	meq/L
Magnesium	16.6	mg/L	1.37	meq/L
Potassium	4.5	mg/L	0.12	meq/L
Sodium	<0.1	mg/L	0.00	meq/L
Cations			7.57	meq/L
Anions			7.56	meq/L
Cation/Anion Difference			0.17%	

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: Stedje GC #1.

Dean L. Apesius
Analyst

Christine M. Waelt
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

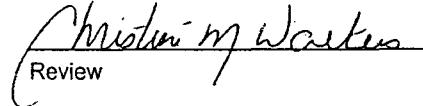
Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #2	Date Reported:	12-01-99
Laboratory Number:	G504	Date Sampled:	11-29-99
Chain of Custody:	7313	Date Received:	11-29-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	11-30-99
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.14	s.u.		
Conductivity @ 25° C	910	umhos/cm		
Total Dissolved Solids @ 180C	450	mg/L		
Total Dissolved Solids (Calc)	430	mg/L		
SAR	0.6	ratio		
Total Alkalinity as CaCO ₃	198	mg/L		
Total Hardness as CaCO ₃	298	mg/L		
Bicarbonate as HCO ₃	198	mg/L	3.25	meq/L
Carbonate as CO ₃	<.01	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	23.3	mg/L	0.66	meq/L
Fluoride	0.60	mg/L	0.03	meq/L
Phosphate	2.2	mg/L	0.07	meq/L
Sulfate	145	mg/L	3.02	meq/L
Iron	0.08	mg/L		
Calcium	105	mg/L	5.24	meq/L
Magnesium	8.8	mg/L	0.72	meq/L
Potassium	2.1	mg/L	0.05	meq/L
Sodium	23.2	mg/L	1.01	meq/L
Cations			7.03	meq/L
Anions			7.02	meq/L
Cation/Anion Difference			0.02%	

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: Stedje GC #1.


Dennis P. Reamer
Analyst


Christine M. Waters
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #3	Date Reported:	12-01-99
Laboratory Number:	G505	Date Sampled:	11-29-99
Chain of Custody:	7313	Date Received:	11-29-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	11-30-99
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.15	s.u.		
Conductivity @ 25° C	960	umhos/cm		
Total Dissolved Solids @ 180C	475	mg/L		
Total Dissolved Solids (Calc)	460	mg/L		
SAR	0.6	ratio		
Total Alkalinity as CaCO ₃	210	mg/L		
Total Hardness as CaCO ₃	322	mg/L		
Bicarbonate as HCO ₃	210	mg/L	3.44	meq/L
Carbonate as CO ₃	<.01	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.4	mg/L	0.01	meq/L
Nitrite Nitrogen	0.006	mg/L	0.00	meq/L
Chloride	32.0	mg/L	0.90	meq/L
Fluoride	0.94	mg/L	0.05	meq/L
Phosphate	0.7	mg/L	0.02	meq/L
Sulfate	150	mg/L	3.12	meq/L
Iron	0.01	mg/L		
Calcium	107	mg/L	5.34	meq/L
Magnesium	13.2	mg/L	1.09	meq/L
Potassium	4.4	mg/L	0.11	meq/L
Sodium	23.5	mg/L	1.02	meq/L
Cations			7.56	meq/L
Anions			7.55	meq/L
Cation/Anion Difference			0.19%	

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: Stedje GC #1.

Alexander L. Apicella
Analyst

Christina M. Waite
Review

CHAIN OF CUSTODY RECORD

7313

Client / Project Name BLACK/CROSS TIMBERS		Project Location STEOTE GC #1		ANALYSIS / PARAMETERS																		
Sampler: RET		Client No. 40340																				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers					Remarks												
MW #1	11-29-99	1150	G503	WATER	3	✓	✓															
MW #2	11-29-99	1215	G504	WATER	3	✓	✓															
MW #3	11-29-99	1135	G505	WATER	3	✓	✓															
BTEX SAMPLES																						
4°C/12/24H PRESERVE - COOL																						
A/C SAMPLES																						
PRESERVE - COOL																						
Relinquished by: (Signature) <i>Edna</i>				Date	Time	Received by: (Signature)			Date	Time												
				11-29-99	1325	<i>Chase L. Queen</i>			11-29-99	1325												
Relinquished by: (Signature)						Received by: (Signature)																
Relinquished by: (Signature)						Received by: (Signature)																
ENVIROTECH INC.																						
Sample Receipt																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%;">Received Intact</td> <td style="width: 33.33%;">Y</td> <td style="width: 33.33%;">N</td> <td style="width: 33.33%;">N/A</td> </tr> <tr> <td><i>✓</i></td> <td><i>✓</i></td> <td><i>✓</i></td> <td><i>✓</i></td> </tr> <tr> <td colspan="4">Cool - Ice/Blue Ice</td> </tr> </table>											Received Intact	Y	N	N/A	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	Cool - Ice/Blue Ice			
Received Intact	Y	N	N/A																			
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>																			
Cool - Ice/Blue Ice																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%;">Received Intact</td> <td style="width: 33.33%;">Y</td> <td style="width: 33.33%;">N</td> <td style="width: 33.33%;">N/A</td> </tr> <tr> <td><i>✓</i></td> <td><i>✓</i></td> <td><i>✓</i></td> <td><i>✓</i></td> </tr> <tr> <td colspan="4">Cool - Ice/Blue Ice</td> </tr> </table>											Received Intact	Y	N	N/A	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	Cool - Ice/Blue Ice			
Received Intact	Y	N	N/A																			
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>																			
Cool - Ice/Blue Ice																						
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615																						

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	11-30-BTEX QA/QC	Date Reported:	11-30-99
Laboratory Number:	G503	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-30-99
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	G.C/FID	G.C/RF	% Diff	Blank Conc	Acceptable Limit
		Acceptable Range 0 - 15%			

Benzene	7.0291E-002	7.0516E-002	0.32%	ND	0.2
Toluene	6.3951E-002	6.3963E-002	0.02%	ND	0.2
Ethylbenzene	5.2614E-002	5.2677E-002	0.12%	ND	0.2
p,m-Xylene	3.9700E-002	3.9708E-002	0.02%	ND	0.2
o-Xylene	6.5791E-003	6.5989E-003	0.30%	ND	0.1

Duplicate Conc (ug/L)	Sample	Duplicate	% Diff	Acceptable Limit
Benzene	ND	ND	0.0%	0 - 30%
Toluene	ND	ND	0.0%	0 - 30%
Ethylbenzene	ND	ND	0.0%	0 - 30%
p,m-Xylene	ND	ND	0.0%	0 - 30%
o-Xylene	ND	ND	0.0%	0 - 30%

Spike Conc (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Acceptable Limit
Benzene	ND	50.0	50.1	100%	39 - 150
Toluene	ND	50.0	50.0	100%	46 - 148
Ethylbenzene	ND	50.0	50.0	100%	32 - 160
p,m-Xylene	ND	100.0	100	100%	46 - 148
o-Xylene	ND	50.0	50.0	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

* - Administrative level set at 80 - 120.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples G503 - G508 and G510 - G511.

Debra L. Apesos
Analyst

Christine M. Walker
Review

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OPER. CO.

CHAIN-OF-CUSTODY # : 10357

LOCATION : STEDJE GC # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : February 21, 2000

SAMPLER : N J V

Filename : 02-21-00.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)
1	102.18	90.59	11.59	15.00	-	-	-	-	-
2	101.57	90.66	10.91	15.00	-	-	-	-	-
3	100.87	90.26	10.61	15.00	1440	7.7	700	2.25	-

NOTES : Volume of water purged from well prior to sampling; V = pi X r² X h X 7.48 gal./ft³) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 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 #3 . Collected BTEX sample from MW #3 only .



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 01-Mar-00

Client:	Blagg Engineering	Client Sample Info:	CTOC - Stedje GC #1
Work Order:	0002049	Client Sample ID:	MW #3
Lab ID:	0002049-01A	Matrix:	AQUEOUS
Project:	CTOC - Stedje GC #1	Collection Date:	2/21/2000 2:40:00 PM
		COC Record:	10357

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	2/25/2000
Toluene	ND	0.5		µg/L	1	2/25/2000
Ethylbenzene	ND	0.5		µg/L	1	2/25/2000
m,p-Xylene	ND	1		µg/L	1	2/25/2000
o-Xylene	ND	0.5		µg/L	1	2/25/2000

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ON SITE

TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB (505) 325-5677 • FAX (505) 327-1496

CHAIN OF CUSTODY RECORD

Date

Page

1

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION				CONTAINERS				RESULTS TO			
Purchase Order No:	Project No:	Sample Date:	Sample Time:	Matrix:	Pres.	Number of Containers:	Type of Container:	Name:	Company:	Mailing Address:	City/State/Zip:
Name: Nelson Velez Company: BLACK ENGINEERING INC. Address: P.O. Box 87 City, State, Zip: BLOOMFIELD, NM 87413				PROJECT LOCATION: CTOC - STATION GC H1				RESULTS TO			
Sampler's Signature: <i>Nelson Velez</i>											
Relinquished by: <i>Nelson Velez</i> Date/Time: <i>2/12/97</i>				Received by: <i>C</i> Date/Time: <i>2/12/97</i>				Date/Time: <i>2/12/97</i>			
Relinquished by: Date/Time:				Received by: Date/Time:				Date/Time:			
Relinquished by: Date/Time:				Received by: Date/Time:				Date/Time:			
Method of Shipment:				Flush	24-48 Hours	100 Working Days	By Date:	Distribution: White On Site Yellow LAB Pink Sampler Goldenrod Client			
Authorized by: (Client Signature Must Accompany Request)				Date: <i>2/12/97</i>							

On Site Technologies, LTD.

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1

Date: 01-Mar-00

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000225	Test Code: SW8021B	Units: µg/L	Analysis Date: 2/25/2000	Prep Date:
Client ID:	Run ID: GC-1_000225A			SeqNo: 24479	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzene	.139	0.5			J
Ethylbenzene	.0595	0.5			J
m,p-Xylene	.1049	1			J
Methyl/tert-Butyl/Ether	ND	1			
o-Xylene	.0485	0.5			J
Toluene	.1347	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.

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1

Date: 01-Mar-00

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0002042-02AMS		Batch ID: GC-1_000225		Test Code: SW8021B		Units: µg/L		Analysis Date 2/25/2000		Prep Date:			
Client ID:	Analyte	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Benzene	21250	120	10000	12000	92.6%	73	126					
	Ethylbenzene	11460	120	10000	1328	101.3%	88	113					
	m,p-Xylene	19980	250	20000	539.9	97.1%	83	112					
	Methyl tert-Butyl Ether	52230	250	10000	45200	70.2%	81	125					ES—
	o-Xylene	10540	120	10000	336.6	102.1%	93	110					
	Toluene	11160	120	10000	1020	101.5%	76	126					
Sample ID: 0002042-02AMSD		Batch ID: GC-1_000225		Test Code: SW8021B		Units: µg/L		Analysis Date 2/25/2000		Prep Date:			
Client ID:	Analyte	Run ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Benzene	20810	120	10000	12000	88.2%	73	126					
	Ethylbenzene	11230	120	10000	1328	99.0%	88	113					6
	m,p-Xylene	19580	250	20000	539.9	95.2%	83	112					5
	Methyl tert-Butyl Ether	52130	250	10000	45200	69.3%	81	125					7
	o-Xylene	10390	120	10000	336.6	100.5%	93	110					9
	Toluene	10940	120	10000	1020	99.2%	76	126					6

CONFIRMED LCS 3/1/00

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: 01-Mar-00

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000225	Test Code: SW8021B	Units: µg/L	Analysis Date: 2/25/2000			Prep Date:		
Client ID:	0002049	Run ID: GC-1_000225A		SeqNo:	24478		%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene		40.92	0.5	40	0.139	102.0%	89	112	
Ethylbenzene		41.42	0.5	40	0.0595	103.4%	93	112	
m,p-Xylene		78.63	1	80	0.1049	98.2%	88	108	
Methyl tert-Butyl Ether		41.32	1	40	0	103.3%	87	115	
o-Xylene		41.44	0.5	40	0.0485	103.5%	93	112	
Toluene		41.14	0.5	40	0.1347	102.5%	92	111	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery 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.

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1

Date: 01-Mar-00

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID:	CCV1 BTEX_0001	Batch ID:	GC-1_000225	Test Code:	SW8021B	Units:	µg/L								
Client ID:	0002049	Run ID:	GC-1_000225A												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC									
Benzene		20.45	0.5	20	0	102.2%									
Ethylbenzene		20.85	0.5	20	0	104.3%									
m,p-Xylene		39.34	1	40	0	98.3%									
Methyl tert-Butyl Ether		20.41	1	20	0	102.0%									
o-Xylene		20.78	0.5	20	0	103.9%									
Toluene		20.31	0.5	20	0	101.6%									
1,4-Difluorobenzene		90.02	0	100	0	90.0%									
4-Bromochlorobenzene		89.28	0	100	0	89.3%									
Fluorobenzene		89.34	0	100	0	89.3%									
Sample ID:	CCV2 BTEX_0001	Batch ID:	GC-1_000225	Test Code:	SW8021B	Units:	µg/L								
Client ID:	0002049	Run ID:	GC-1_000225A												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC									
Benzene		19.74	0.5	20	0	98.7%									
Ethylbenzene		20.35	0.5	20	0	101.8%									
m,p-Xylene		38.38	1	40	0	95.9%									
Methyl tert-Butyl Ether		20.52	1	20	0	102.6%									
o-Xylene		20.42	0.5	20	0	102.1%									
Toluene		19.92	0.5	20	0	99.6%									
1,4-Difluorobenzene		89.37	0	100	0	89.4%									
4-Bromochlorobenzene		89.5	0	100	0	89.5%									
Fluorobenzene		89.36	0	100	0	89.4%									

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

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

B - Analyte detected in the associated Method Blank

1 of 2

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Analysis Date	Prep Date:
												SeqNo:	24477
Benzene	40.08	0.5	40	0	100.2%	85	115						
Ethylbenzene	40.36	0.5	40	0	100.9%	85	115						
m,p-Xylene	76.66	1	80	0	95.8%	85	115						
Methyl tert-Butyl Ether	41.52	1	40	0	103.8%	85	115						
o-Xylene	40.6	0.5	40	0	101.5%	85	115						
Toluene	40.21	0.5	40	0	100.5%	85	115						
1,4-Difluorobenzene	88.88	0	100	0	88.9%	80	105						
4-Bromochlorobenzene	89.24	0	100	0	89.2%	78	108						
Fluorobenzene	88.61	0	100	0	88.6%	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

On Site Technologies, LTD.

Date: 01-Mar-00

CLIENT: Blagg Engineering
Work Order: 0002049
Project: CTOC - Stedje GC #1
Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0002042-02A	89	89.1	88.1					
0002042-02AMS	88.4	90.4	87.3					
0002042-02AMSD	87.9	90.4	87.2					
0002042-03A	90.5	89.2	89.5					
0002042-04A	90.2	89.5	89.4					
0002042-05A	90.6	89.4	89.6					
0002042-06A	90	88.2	89.1					
0002042-07A	89.1	88.8	89.2					
0002042-09A	90	89.4	89.6					
0002043-01A	89.6	88.3	89					
0002043-03A	90.4	89.5	89.6					
0002044-01A	90.4	89.8	89.6					
0002044-03A	90	89.1	90.1					
0002046-01A	90.2	89.4	89.6					
0002046-02A	90.8	90.4	91.4					
0002047-01A	90.6	89.1	89.6					
0002047-02A	90	89.1	90					
0002049-01A	89.8	89.3	90.1					
CCV1_BTEX_00010	90	89.3	89.3					
CCV2_BTEX_00010	89.4	89.5	89.4					
CCV3_BTEX_00010	88.9	89.2	88.6					
LCS WATER	89.5	89.4	88.1					
MB1	90.5	88.2	89.4					

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

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OPER. CO.

CHAIN-OF-CUSTODY # : 10370

LOCATION : STEDJE GC # 1

LABORATORY (S) USED : ON-SITE TECH.

Date : March 15, 2000

SAMPLER : NJV

Filename : 03-15-00.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.18	90.96	11.22	15.00	-	-	-	-	-
2	101.57	91.00	10.57	15.00	0915	7.3	800	2.25	-
3	100.87	90.52	10.35	15.00	-	-	-	-	-

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

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

Ideally a minimum of three (3) wellbore volumes:

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

2 bails per foot - small teflon bailer.

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

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

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

Comments or note well diameter if not standard 2"

Good recovery in MW # 2 . Slightly murky at first, then clear during purging .

Collected BTEX from MW # 2 only .



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Mar-00

Client:	Blagg Engineering	Client Sample Info:	Stedje GC #1
Work Order:	0003026	Client Sample ID:	MW #2
Lab ID:	0003026-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Stedje GC #1	Collection Date:	3/15/2000 9:15:00 AM
		COC Record:	10370

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	3/15/2000
Toluene	ND	0.5		µg/L	1	3/15/2000
Ethylbenzene	ND	0.5		µg/L	1	3/15/2000
m,p-Xylene	ND	1		µg/L	1	3/15/2000
o-Xylene	ND	0.5		µg/L	1	3/15/2000

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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

612 E. Murray Dr., P.O. Box 2606, Farmington, NM 87499
 LAB (505) 322-5867, FAX (505) 327-1496

Date 3/15/02

Page 1

Purchase Order No.: <u>700-2002</u>		Project No.: <u>CC # 1</u>		REPORT TO		Name <u>NEILSON, K.E.</u>	Phone <u>(505) 322-5867</u>
Name <u>TEPC PLAGE</u>		Company <u>PLACES ENTERPRISE, INC.</u>		Company <u>SAMPSON</u>		Mailing Address <u></u>	
Address <u>P.O. Box 87</u>		City, State, Zip <u>BLOOMFIELD, NM 87413</u>		City, State, Zip <u></u>		Telephone No. <u>(505) 322-5867</u>	Telex No. <u></u>
PROJECT LOCATION: <u>East Timbers - Storage CC # 1</u>							
ANALYSIS REQUESTED							
NUMBER OF CONTAINERS <u>2</u>							
SAMPLE IDENTIFICATION							
	DATE <u>3/15/02</u>	TIME <u>0915</u>	MATRIX <u>CORE 1</u>	PRES. <u>RCI</u>	DATE <u>3/15/02</u>	TIME <u>0915</u>	MATRIX <u>CORE 2</u>
SEND TO:							
RElinquished by:	<u>J. J. Plage</u>	Date/Time <u>3/15/02</u>	Date/Time <u>3/15/02</u>	Received by <u>K. Neilson</u>	Date/Time <u>3/15/02</u>	Date/Time <u>3/15/02</u>	Date/Time <u>3/15/02</u>
RElinquished by:							
RElinquished by:							
Method of Shipment:							
Authorized by:	<u>J. J. Plage</u>	Date <u>3/15/02</u>					
(Client Signature Must Accompany Request)							
Distribution White, On Site, Yellow, LAB, Pink, Sample, Goldenrod, Green, Telephone (505) 322-5867, Telex (505) 327-1496							
CONTAINER 1							
CONTAINER 2							
CONTAINER 3							
CONTAINER 4							
CONTAINER 5							
CONTAINER 6							
CONTAINER 7							
CONTAINER 8							
CONTAINER 9							
CONTAINER 10							
CONTAINER 11							
CONTAINER 12							
CONTAINER 13							
CONTAINER 14							
CONTAINER 15							
CONTAINER 16							
CONTAINER 17							
CONTAINER 18							
CONTAINER 19							
CONTAINER 20							

On Site Technologies, LTD.

CLIENT: Blagg Engineering
Work Order: 0003026
Project: Cross Timbers; Stedje GC #1

Date: 17-Mar-00

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L	Analysis Date	3/15/2000	Prep Date:					
Client ID:	Run ID:	GC-1_000315A		SeqNo:	25733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	.0611		0.5								J
Ethylbenzene	.0557		0.5								J
m,p-Xylene	.1324		1								J
Methyl tert-Butyl Ether	ND		1								
o-Xylene	.0613		0.5								J
Toluene	.1425		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.

CLIENT: Blagg Engineering
Work Order: 0003026
Project: Cross Timbers; Stedje GC #1

QC SUMMARY REPORT									
Sample Matrix Spike									
Sample ID:	Batch ID:	Test Code:	Units:	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Client ID:	Run ID:	SeqNo:	Analysis Date	Prep Date:					
Analyte	PQL	SPK value	SPK Ref Val						
Benzene	764.2	5	400	412.6	87.9%	73	126		
Ethylbenzene	411.4	5	400	23.29	97.0%	88	113		
m,p-Xylene	896.4	10	800	159.8	92.1%	83	112		
Methyl tert-Butyl Ether	391.6	10	400	11.9	94.9%	81	125		
o-Xylene	442.2	5	400	54.56	96.9%	93	110		
Toluene	1031	5	400	697.8	83.3%	76	126		
Sample ID:	Batch ID:	Test Code:	Units:	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Client ID:	Run ID:	SeqNo:	Analysis Date	Prep Date:					
Analyte	PQL	SPK value	SPK Ref Val						
Benzene	761.6	5	400	412.6	87.3%	73	126	764.2	0.3%
Ethylbenzene	410.4	5	400	23.29	96.8%	88	113	411.4	0.3%
m,p-Xylene	894.4	10	800	159.8	91.8%	83	112	896.4	0.2%
Methyl tert-Butyl Ether	389.2	10	400	11.9	94.3%	81	125	391.6	0.6%
o-Xylene	448	5	400	54.56	98.4%	93	110	442.2	1.3%
Toluene	1027	5	400	697.8	82.4%	76	126	1031	0.4%

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

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

B - Analyte detected in the associated Method Blank

Date: 17-Mar-00

1 of 1

On Site Technologies, LTD.

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: Blagg Engineering
Work Order: 0003026
Project: Cross Timbers; Stedje GC #1

Sample ID: LCS WATER	Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L	Analysis Date 3/15/2000			Prep Date:				
Client ID:	Run ID: GC-1_000315A	PQL	SPK value	SPK Ref Val	%REC	SeqNo:	25732				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.46	0.5	40	0.0611	96.0%	89	112				
Ethylbenzene	39.74	0.5	40	0.0557	99.2%	93	112				
m,p-Xylene	75.1	1	80	0.1324	93.7%	88	108				
Methyl tert-Butyl Ether	37.77	1	40	0	94.4%	87	115				
o-Xylene	39.52	0.5	40	0.0613	98.6%	93	112				
Toluene	39.26	0.5	40	0.1425	97.8%	92	111				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

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

B - Analyte detected in the associated Method Blank
I - Analyte detected in the associated Method Blank

Date: 17-Mar-00

1 of 1

On Site Technologies, LTD.

Date: 17-Mar-00

QC SUMMARY REPORT
Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
Work Order: 0003026
Project: Cross Timbers; Stedje GC #1

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Analysis Date	Prep Date:
												Sample ID: CCV1 BTEX_0001	Batch ID: GC-1_000315
Benzene	19.42	0.5	20	0	97.1%	85	115					Run ID: GC-1_000315A	Test Code: SW8021B
Ethylbenzene	20.16	0.5	20	0	100.8%	85	115					SeqNo:	25729
m,p-Xylene	37.92	1	40	0	94.8%	85	115					Analysis Date	3/15/2000
Methyl tert-Butyl Ether	19.31	1	20	0	96.6%	85	115					Prep Date:	
o-Xylene	20.01	0.5	20	0	100.1%	85	115						
Toluene	19.72	0.5	20	0	98.6%	85	115						
1,4-Difluorobenzene	89.27	0	100	0	89.3%	80	105						
4-Bromochlorobenzene	91.42	0	100	0	91.4%	78	108						
Fluorobenzene	86.52	0	100	0	86.5%	78	108						
<hr/>													
Benzene	18.91	0.5	20	0	94.5%	85	115					Sample ID: CCV2 BTEX_0001	Batch ID: GC-1_000315
Ethylbenzene	19.64	0.5	20	0	98.2%	85	115					Run ID: GC-1_000315A	Test Code: SW8021B
m,p-Xylene	36.87	1	40	0	92.2%	85	115					SeqNo:	25730
Methyl tert-Butyl Ether	19.99	1	20	0	99.9%	85	115					Analysis Date	3/15/2000
o-Xylene	19.64	0.5	20	0	98.2%	85	115					Prep Date:	
Toluene	19.31	0.5	20	0	96.6%	85	115						
1,4-Difluorobenzene	89.22	0	100	0	89.2%	80	105						
4-Bromochlorobenzene	91.78	0	100	0	91.8%	78	108						
Fluorobenzene	86.88	0	100	0	86.9%	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: 0003026
Project: Cross Timbers; Stedje GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0001		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:				
Client ID:	Run ID:	GC-1_000315A		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		37.02	0.5	40	0			92.5%	85	115				
Ethybenzene		38.27	0.5	40	0			95.7%	85	115				
m,p-Xylene		72.29	1	80	0			90.4%	85	115				
Methyl tert-Butyl Ether		38.56	1	40	0			96.4%	85	115				
o-Xylene		38.34	0.5	40	0			95.8%	85	115				
Toluene		37.93	0.5	40	0			94.8%	85	115				
1,4-Difluorobenzene		88.56	0	100	0			88.6%	80	105				
4-Bromochlorobenzene		90.53	0	100	0			90.5%	78	108				
Fluorobenzene		86.39	0	100	0			86.4%	78	108				
Sample ID: CCV4 BTEX_0001		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:				
Client ID:	Run ID:	GC-1_000315A		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		19.22	0.5	20	0			96.1%	85	115				
Ethybenzene		20.19	0.5	20	0			100.9%	85	115				
m,p-Xylene		38.17	1	40	0			95.4%	85	115				
Methyl tert-Butyl Ether		21.83	1	20	0			109.1%	85	115				
o-Xylene		20.06	0.5	20	0			100.3%	85	115				
Toluene		19.79	0.5	20	0			98.9%	85	115				
1,4-Difluorobenzene		88.47	0	100	0			88.5%	80	105				
4-Bromochlorobenzene		92.94	0	100	0			92.9%	78	108				
Fluorobenzene		85.3	0	100	0			85.3%	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: 0003026
Project: Cross Timbers; Stedje GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Analysis Date	Prep Date:
												3/15/2000	25738
Benzene	18.57	0.5	20	0	92.9%	85	115						
Ethylbenzene	19.4	0.5	20	0	97.0%	85	115						
m,p-Xylene	36.65	1	40	0	91.6%	85	115						
Methyl tert-Butyl Ether	19.18	1	20	0	95.9%	85	115						
o-Xylene	19.34	0.5	20	0	96.7%	85	115						
Toluene	19.12	0.5	20	0	95.6%	85	115						
1,4-Difluorobenzene	87.98	0	100	0	88.0%	80	105						
4-Bromochlorobenzene	93	0	100	0	93.0%	78	108						
Fluorobenzene	85.08	0	100	0	85.1%	78	108						

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

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

B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Blagg Engineering
Work Order: 0003026
Project: Cross Timbers; Stedje GC #1
Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ						
0003009-02A	86.5	89.8	84.6						
0003009-02AMS	85	89.9	83.7						
0003009-02AMSD	87.5	92	85.2						
0003012-02A	89.2	90.4	86.7						
0003013-07A	89.9	90.9	86.8						
0003023-01A	85	85.7	92						
0003023-02A	88.3	90	85.2						
0003023-03A	90.2	90.3	87.4						
0003024-01A	90	91	87.3						
0003024-02A	90	91.6	87.3						
0003024-03A	89.8	91.6	87.4						
0003024-04A	89.3	90.8	87.6						
0003024-05A	90.1	91.4	87.4						
0003024-06A	88.4	91.6	87.5						
0003024-07A	90.1	91.1	87.6						
0003025-01A	88.6	89.6	86.6						
0003026-01A	90	90.5	87.6						
CCV1 BTEX_00010	89.3	91.4	86.5						
CCV2 BTEX_00010	89.2	91.8	86.9						
CCV3 BTEX_00010	88.6	90.5	86.4						
CCV4 BTEX_00010	88.5	92.9	85.3						
CCV5 BTEX_00010	88	93	85.1						
LCS WATER	88.4	91.5	86.2						
MB1	90.3	90.4	87.5						

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

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT: CROSS TIMBERS OPER. CO.

CHAIN-OF-CUSTODY #: 10597

LOCATION: STEDJE GC #1

LABORATORY (S) USED: ON-SITE TECH.

Date: June 19, 2000

SAMPLER: NJV

Filename: 06-19-00.WK4

PROJECT MANAGER: NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	102.18	91.89	10.29	15.00	-	-	-	-	-
2	101.57	91.82	9.75	15.00	1215	7.6	500	2.50	-
3	100.87	91.37	9.50	15.00	1150	7.5	1,100	2.75	-

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

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

Ideally a minimum of three (3) wellbore volumes:

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

2 bails per foot - small teflon bailer.

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

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

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

Comments or note well diameter if not standard 2".

Good recovery in MW #2, fair recovery in MW #3.

Collected BTEX from MW #2 & #3.

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



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

ANALYTICAL REPORT

Date: 30-Jun-00

Client:	Blagg Engineering	Client Sample Info:	Stedje GC #1
Work Order:	0006046	Client Sample ID:	MW #2
Lab ID:	0006046-01A	Collection Date:	6/19/2000 12:15:00 PM
Project:	Cross Timbers - Stedje GC #1	COC Record:	10597

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	ND	0.5		µg/L	1	6/27/2000
Toluene	ND	0.5		µg/L	1	6/27/2000
Ethylbenzene	0.8	0.5		µg/L	1	6/27/2000
m,p-Xylene	ND	1		µg/L	1	6/27/2000
o-Xylene	ND	0.5		µg/L	1	6/27/2000

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

I of 2

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: 30-Jun-00

Client:	Blagg Engineering	Client Sample Info:	Stedje GC #1
Work Order:	0006046	Client Sample ID:	MW #3
Lab ID:	0006046-02A	Matrix:	AQUEOUS
Project:	Cross Timbers - Stedje GC #1	Collection Date:	6/19/2000 11:50:00 AM
		COC Record:	10597

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	6/27/2000
Toluene	ND	0.5		µg/L	1	6/27/2000
Ethylbenzene	ND	0.5		µg/L	1	6/27/2000
m,p-Xylene	ND	1		µg/L	1	6/27/2000
o-Xylene	ND	0.5		µg/L	1	6/27/2000

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

2 of 2

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

Date:

612 E Murray Dr. • P.O. Box 2606 • Farmington NM 87099
LAB 505.325.5667 FAX (505)327.1487

Page: 0

Purchase Order No.	Project No.	Name: <i>Jeff Page</i>	Address: <i>1322 1/2 Zia</i>		
Name: <i>Jeff Page</i>	Dept:	Company: <i>BALANCE ENGINEERING, INC.</i>	City, State: <i>PO. BOX 37 Bloomfield NM 87413</i>		
PROJECT LOCATION: <i>CLOUTIER STATE LINE</i>		REPORT TO: <i>ANALYSIS REQUESTED</i>	RESULTS TO: <i>Customer</i>		
SAMPLER'S SIGNATURE: <i>J. Page</i>		Number of Containers: <i>1</i>			
SAMPLE IDENTIFICATION					
	DATE	TIME	MATRIX		
<i>Min # 2</i>	<i>6/9/00</i>	<i>12:15</i>	<i>LATE COOL</i>		
<i>Min # 3</i>	<i>6/9/00</i>	<i>1:00</i>	<i>LATE COOL</i>		
Relinquished by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i> Received by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i>					
Relinquished by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i> Received by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i>					
Relinquished by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i> Received by: <i>John Varg</i> Date/Time: <i>6/9/00 1:00</i>					
Method of Shipment:					
Authorized by: _____ Date: _____ (Client Signature Must Accompany Request)		Rush	24-48 Hours	10 Working Days	By Date
Special Instructions/ Remarks:					

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

Phone: 208.343.2000 Fax: 208.343.2022 Email: info@onsite.com

On Site Technologies, LTD.

Date: 30-Jun-00

QC SUMMARY REPORT
Method Blank
Project: Cross Timbers - Stedje GC #1

CLIENT: Blagg Engineering

Work Order: 0006046

Project: Cross Timbers - Stedje GC #1

Sample ID: MB1	Batch ID: GC-1_000627	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/27/2000			Prep Date:				
Client ID:	Run ID:	GC-1_000627A		SeqNo:	29412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	.0393	0.5									J
Ethylbenzene	.0995	0.5									J
m,p-Xylene	.1968	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.2037	0.5									J
Toluene	.2611	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

1 of 1

On Site Technologies, LTD.

CLIENT: Blagg Engineering
Work Order: 0006046
Project: Cross Timbers - Stedje GC #1

Sample ID: 0006050-17AMS Batch ID: GC-1_000627 Test Code: SW8021B Units: µg/L

Client ID:	Run ID:	GC-1_000627A			Analysis Date: 6/27/2000			Prep Date:			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	223.5	2.5	200	21.68	100.9%	73	126				
Ethylbenzene	409.5	2.5	200	215.8	96.9%	88	113				
m,p-Xylene	378.7	5	400	0	94.7%	83	112				
Methyl tert-Butyl Ether	228.3	5	200	22.43	103.0%	81	125				
o-Xylene	204.2	2.5	200	2.268	101.0%	93	110				
Toluene	210.7	2.5	200	4.871	102.9%	76	126				

Sample ID: 0006050-17AMSD Batch ID: GC-1_000627 Test Code: SW8021B Units: µg/L

Client ID:	Run ID:	GC-1_000627A			Analysis Date: 6/27/2000			Prep Date:			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	223.9	2.5	200	21.68	101.1%	73	126	223.5	0.2%	6	
Ethylbenzene	412.8	2.5	200	215.8	98.5%	88	113	409.5	0.8%	5	
m,p-Xylene	381.6	5	400	0	95.4%	83	112	378.7	0.8%	7	
Methyl tert-Butyl Ether	231.7	5	200	22.43	104.6%	81	125	228.3	1.5%	9	
o-Xylene	205.9	2.5	200	2.268	101.8%	93	110	204.2	0.9%	6	
Toluene	210.2	2.5	200	4.871	102.7%	76	126	210.7	0.2%	6	

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

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

B - Analyte detected in the associated Method Blank

Date: 30-Jun-00

QC SUMMARY REPORT
Sample Matrix Spike

On Site Technologies, LTD.

QC SUMMARY REPORT
Laboratory Control Spike - generic

Date: 30-Jun-00

CLIENT: Blagg Engineering
Work Order: 0006046
Project: Cross Timbers - Stedje GC #1

Sample ID: LCS WATER	Batch ID: GC-1_000627	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/27/2000			Prep Date:			
Client ID:		Run ID: GC-1_000627A		SeqNo:	29411					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPD Limit	Qual
Benzene	43.46	0.5	40	0.0393	108.6%	89	112			
Ethylbenzene	43.38	0.5	40	0.0995	108.2%	93	112			
m,p-Xylene	82.31	1	80	0.1968	102.6%	88	108			
Methyl tert-Butyl Ether	42.71	1	40	0	106.8%	87	115			
o-Xylene	43.53	0.5	40	0.2037	108.3%	93	112			
Toluene	43.75	0.5	40	0.2611	108.7%	92	111			

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.

CLIENT: Blagg Engineering
Work Order: 0006046
Project: Cross Timbers - Stedje GC #1

Date: 30-Jun-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEx_0004	Batch ID: GC1_000627	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/27/2000			Prep Date:		
Client ID:		Run ID: GC-1_000627A		SeqNo:	29408				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	21.53	0.5	20	0	107.7%	85	115		
Ethylbenzene	21.6	0.5	20	0	108.0%	85	115		
m,p-Xylene	41.25	1	40	0	103.1%	85	115		
Methyl tert-Butyl Ether	20.97	1	20	0	104.9%	85	115		
o-Xylene	21.82	0.5	20	0	109.1%	85	115		
Toluene	21.82	0.5	20	0	109.1%	85	115		
1,4-Difluorobenzene	90	0	100	0	90.0%	80	105		
4-Bromochlorobenzene	84.74	0	100	0	84.7%	78	108		
Fluorobenzene	88.88	0	100	0	88.9%	78	108		
Sample ID: CCV2 BTEx_0004	Batch ID: GC1_000627	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/27/2000			Prep Date:		
Client ID:		Run ID: GC-1_000627A		SeqNo:	29409				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	20.93	0.5	20	0	104.7%	85	115		
Ethylbenzene	20.83	0.5	20	0	104.1%	85	115		
m,p-Xylene	39.71	1	40	0	99.3%	85	115		
Methyl tert-Butyl Ether	21.37	1	20	0	106.8%	85	115		
o-Xylene	21.04	0.5	20	0	105.2%	85	115		
Toluene	21.03	0.5	20	0	105.2%	85	115		
1,4-Difluorobenzene	90.94	0	100	0	90.9%	80	105		
4-Bromochlorobenzene	84.85	0	100	0	84.8%	78	108		
Fluorobenzene	89.38	0	100	0	89.4%	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: 0006046

Project: Cross Timbers - Stecje GC #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Analysis Date: 6/27/2000 SeqNo: 29410	Prep Date:					
							Units: µg/L	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	41.25	0.5	40	0	103.1%	85					115	
Ethylbenzene	40.94	0.5	40	0	102.3%	85					115	
m,p-Xylene	77.72	1	80	0	97.1%	85					115	
Methyl tert-Butyl Ether	43.03	1	40	0	107.6%	85					115	
o-Xylene	41.38	0.5	40	0	103.4%	85					115	
Toluene	41.45	0.5	40	0	103.6%	85					115	
1,4-Difluorobenzene	89.97	0	100	0	90.0%	80					105	
4-Bromochlorobenzene	85.27	0	100	0	85.3%	78					108	
Fluorobenzene	88.73	0	100	0	88.7%	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

On Site Technologies, LTD.

Date: 30-Jun-00

CLIENT: Blagg Engineering
Work Order: 0006046
Project: Cross Timbers - Stedje GC #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ					
0006046-01A	90.5	83.4	89.3					
0006046-02A	90.8	84.1	89.7					
0006047-03A	87	80.1	92.4					
0006048-01A	91	85.2	90					
0006048-02A	90.2	83.6	89.1					
0006048-03A	91	85.1	90					
0006049-01A	90	83.2	88.6					
0006049-02A	84.4	82.3	83.1					
0006049-03A	90.8	84.9	89.9					
0006050-01A	90.3	83.7	89.6					
0006050-02A	91	84.9	89.8					
0006050-03A	91.1	84.4	89.8					
0006050-04A	91	84.6	90					
0006050-05A	90.8	83.4	89.6					
0006050-07A	89.9	85.3	89.1					
0006050-17A	90.1	84.5	91.6					
0006050-17AMS	89.7	84.6	90.2					
0006050-17AMSD	89.5	85.1	90.3					
0006057-01A	83.5	76.6 *	86.9					
CCV1 BTEX_00040	90	84.7	88.9					
CCV2 BTEX_00040	90.9	84.8	89.4					
CCV3 BTEX_00040	90	85.3	88.7					
LCS WATER	89.6	85	88.7					
MBI	90.4	84.2	89.8					

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

* Surrogate recovery outside acceptance limits

ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401
(505) 632-06159/9
94072

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE NO: 1 of 1PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: EXCAVATORDATE STARTED: 4-30-92
DATE FINISHED: 4-30-92
ENVIRO. SPCLT: HLC
OPERATOR: BW
ASSISTANT: MSLOCATION: LSE: STEEJE G.C. WELL: No.1 QD: SE 1/4 NW 1/4 (F)
SEC: 27 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM PIT: DK SQ: PIT

LAND USE: RANCH (W/ REMOVED FENCE LINE 100 YARDS SOUTH OF WELL SITE)

SURFACE CONDITIONS: FRACASSED TANK (10' DIA X 6') W/ SEAM. LIQUID BOTTOM 2' BELOW GROUND.

FIELD NOTES & REMARKS: LOCATED 30' EAST & 45' SOUTH OF WELL HEAD. SOIL CONDITION: SILTY SAND; BROWN TO YELLOWISH BROWN, MOIST, FIRM (4'+), Well Gravel Sand & GRAVEL TO GROUND WATER. CONTAMINATION INDICATED BY GRAY - GRAY/BLACK DISCOLORATION. CONTAMINATED ENCLOSED AREA APPEARS TO BE LIMITED TO FENCED AREA. AS WITH BARN PIT RECOMMEND EXCAVATION OF HIGHLY CONTAMINATED SOILS. WILL REQUIRE REMOVAL OF TANK AND EXCAVATION OF APPROXIMATELY 300-400 CY.

SAMPLE INVENTORY:

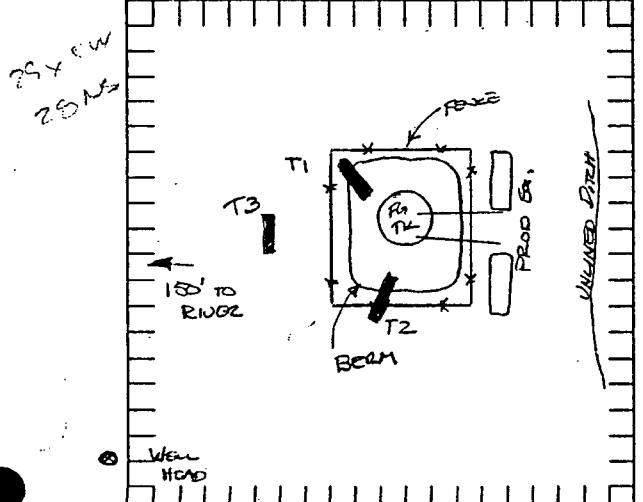
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T109-10	Sol	SO20/TPH
"	"	HEAD
T30GW	Wte	SO20 (x2)
"	Wte	TPH

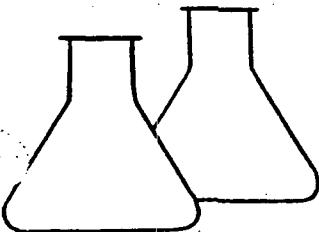
REMOVED FENCE LINE FOR ACCESS.

TEST HOLE LOGS:

TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH
1	C	SW	P	2	C	SW	P	3	C	SW	P				
3	C	SW	P	4	C	SW	P	5	C	SW	P				
5	C	SW	P	6	C	SW	P	7	C	SW	P				
7	C	SW	P	8	C	SW	P	9	C	SW	P				
10	C	SW	P	11	C	SW	P	12	C	SW	P				
13	C	SW	P	14	C	SW	P	15	C	SW	P				
14	C	SW	P	16	C	SW	P	17	C	SW	P				
15	C	SW	P	17	C	SW	P	18	C	SW	P				
16	C	SW	P	18	C	SW	P								
17	C	SW	P												

SITE DIAGRAM

SOIL TYPE: C - Clay, M - Str., S - Sand, G - Gravel
Porosity: L - None, H - Patches
Grading: P - Poorly, V - Well



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: AMOCO
Sample ID: T-1 @ 9-10'
Laboratory Number: 0330
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 92140
Date Reported: 06-15-92
Date Sampled: 04-30-92
Date Received: NA
Date Analyzed: 06-02-92
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	11,000	50.0

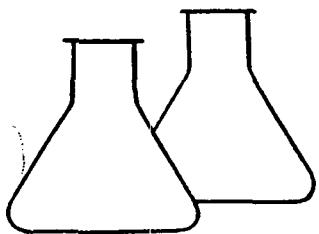
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Stedje G.C. 1 DK Separator Pit 94072

Tony Tristano
Analyst

Hal Farnsworth
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS
HEADSPACE EXTRACTION

Client:	AMOCO	Project #:	92140
Sample ID:	T1 @ 9'	Date Reported:	08-21-92
Laboratory Number:	0331	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	NA	Date Analyzed:	06-19-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	486	1.6
Toluene	286	1.6
Ethylbenzene	900	5.6
p,m-Xylene	50,700	21.6
o-Xylene	1,160	8.0

Method: Method 3810, Headspace, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

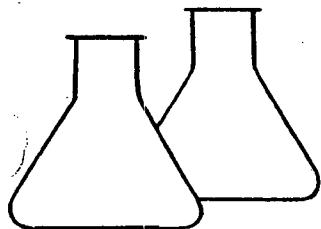
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Stedje GC 1---DK Separator Pit---94072

Al Chehaley
Analyst

Jeanne D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T 1 @ 9-10'	Date Reported:	09-24-92
Laboratory Number:	0330	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	NA	Date Extracted:	06-02-92
Condition:	Cool & Intact	Date Analyzed:	09-21-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3,300	81
Toluene	5,500	91
Ethylbenzene	ND	50
p,m-Xylene	77.100	101
o-Xylene	35,200	81

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromfluorobenzene	102 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

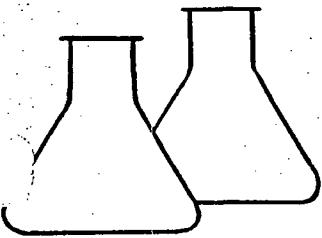
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Stedje GC 1 DK Separator Pit 94072

Shawn L. Glens
Analyst

Morris D Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Client: Amoco
Sample ID: T3 @GW
Laboratory Number: 0328
Analysis Requested: 418.1
Sample Matrix: Water
Condition: Received on Ice

Report Date: 5-4-92
Date Sampled: 4-30-92
Date Received: 4-30-92
Date Extracted: 5-1-92
Date Analyzed: 5-1-92
Preservative: Cool

Parameter	Concentration (mg/l)	Det. Limit (mg/l)
Total Recoverable Petroleum Hydrocarbons	<10.0	10.0

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

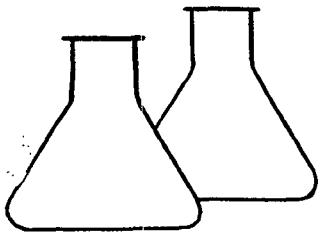
Comments: Stedje G.C. 1 - DK Separator Pit *94072*

Tony Tristano

Analyst

Morris D. Young

Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW	Date Reported:	08-12-92
Laboratory Number:	0329	Date Sampled:	04-30-92
Sample Matrix:	Water	Date Received:	04-30-92
Preservative:	HgCl & Cool	Date Analyzed:	06-01-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.3	0.2
Toluene	ND	0.9
Ethylbenzene	ND	0.6
p,m-Xylene	ND	0.9
o-Xylene	ND	0.4

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	91.8 %
	Bromfluorobenzene	98.1 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Stedje GC 1--DK Separator Pit--94072

Robert M. Young
Analyst

Morris D. Young
Review

1751

CHAIN OF CUSTODY RECORD

Client/Project Name <i>Anlos</i>	Project Location STEVE GE / <i>Anlos</i>	ANALYSIS/PARAMETERS				
		Chain of Custody Tape No. <i>DK Separators Pit (94072)</i>				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks
T329W	11/28/92	1257	0328	WTR	1	EPA 418.1, EPA 8020 TPH BTEX EPA 2810 BTEX EPA 2810
T329W			0329	WTR.	2	
T129-10'	11/29	0330	3016		1	
T129'	11/29	0331	3016-		1	
Relinquished by: (Signature) <i>Mike R. B.</i>			Date	Time	Received by: (Signature) <i>Tony Tritter</i>	
Relinquished by: (Signature)					Received by: (Signature)	
Relinquished by: (Signature)						
					Date	Time
					4/30/92	1724

ENVIROTECH INC.

5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
 (505) 632-0615

C4072

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
100 Rio Bravo Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: STEVE GC #1
Well Name

Location: Unit or Qtr/Qtr Sec F sec 27 T 30N R 12W County SAN JUAN

Pit Type: Separator Dehydrator Other

Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 25', width 25', depth 10'
(attach diagram)

Reference: wellhead , other

Footage from reference: 75'

Direction from reference: 59 Degrees East North
of
West South

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance To Surface Water:
Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 20

RANKING SCORE (TOTAL POINTS): 40

C4072 SEP.PTT

Date Remediation Started: _____ Date Completed: 8/3/93

Remediation Method: Excavation Approx. cubic yards 231
(Check all appropriate sections). Landfarmed Insitu Bioremediation _____

Other _____

Remediation Location: Onsite Offsite ~~Amoco~~ COMPOST FACILITY - CROUCH
(ie. landfarmed onsite,
name and location of
offsite facility) MESA

General Description Of Remedial Action: _____

Excavation. GROUNDWATER IMPACT. PIT WATER PUMPED & DISPOSED
BY TRIPLE S.

Ground Water Encountered: No _____ Yes Depth 7'

Final Pit: Sample location see Attached Documents

Closure Sampling: (if multiple samples,
attach sample results
and diagram of sample
locations and depths) MULTIPLE SAMPLES.

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

Ground Water Sample: Yes No _____ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND BELIEF

DATE 2/28/06 ^{mv}

SIGNATURE *B.D. Shaw* PRINTED NAME
AND TITLE *Buddy D. Shaw*
Environmental Coordinator

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

C4072

C.O.C. # 2859

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1LOCATION: LEASE: STEDJE GAS COM WELL #1 QD: SE/4, NW/4 (F)
SEC: 27 TWP: 30 N RNG: 12 W BM: NM CNTY: S. J. ST: NM PIT: SEP.
CONTRACTOR: BILL MOSS
EQUIPMENT USED: TRACK EXCAVATOR

DATE STARTED: 7-27-93

DATE FINISHED: 8/3/93

ENVIRONMENTAL 7/27 / 8/3
SPECIALIST: RED / NV

SOIL REMEDIATION: QUANTITY: APPROX. 25' X 25' X 10' DEEP.

DISPOSAL FACILITY: OFF-SITE LANDFARM → EPC COMPOST FACILITY - CROUCH MESA

LAND USE: FARMING

SURFACE CONDITIONS: EXCAVATED PRIOR TO ARRIVAL - SEE ENVIROTECH ASSESSMENT # 94072

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 25 YARDS 5.45° E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 8.5 FEET

5.45° E

NEAREST WATER SOURCE: IRRIGATION DITCH - APPROX. 30 FEET SOUTH.

559 E m

NEAREST SURFACE WATER: ANIMAS RIVER - APPROX. 150 FEET NORTH

PIT EXCAVATED TO GROUNDWATER ON JULY 26, 1993.

WATER IN PIT HAS FLOATING DEBRIS. SAMPLE APPEARS FAIRLY CLEAR WITH NO ODOR.
SLIGHT RAINBOW DETECTABLE ON WATER SURFACE.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

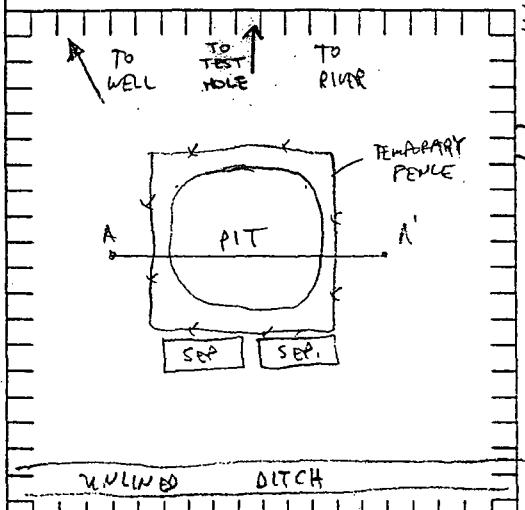


0550(7)

8/3/93

N

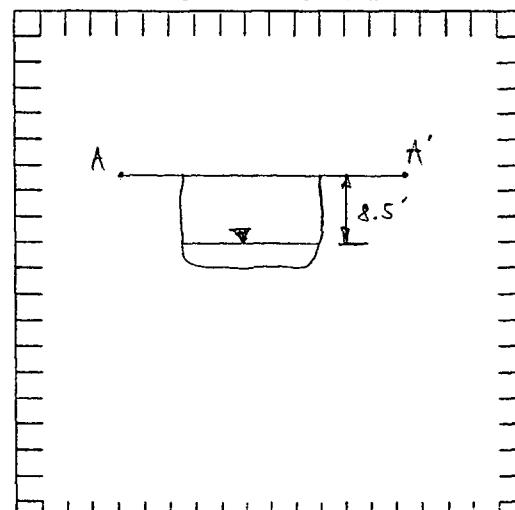
PIT PERIMETER



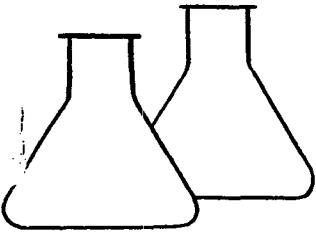
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
M	LAB
M	PIT @ 8.5' BTEX WATER
1	PIT BOTTOM @ 7' BTEX WATER
2	DEEWA (7') BTEX WATER
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

PIT PROFILE



TRAVEL NOTES: CALLOUT: 7-26-93 1600 HRS ONSITE: 7-27-93 1130 HRS.



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Pit @ 8.5'	Date Reported:	07-28-93
Laboratory Number:	5759	Date Sampled:	07-27-93
Sample Matrix:	Water	Date Received:	07-27-93
Preservative:	HgCl and Cool	Date Analyzed:	07-27-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	18.5	0.2
Toluene	11.2	0.2
Ethylbenzene	24.8	0.2
p,m-Xylene	165	0.3
o-Xylene	11.3	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

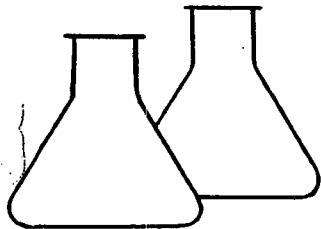
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Stedje Gas Com #1 Separator Pit C4072

Devin D. O'Brien
Analyst

Mark D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	1 @ GW (7')	Date Reported:	08-04-93
Laboratory Number:	5819	Date Sampled:	08-03-93
Sample Matrix:	Water	Date Received:	08-03-93
Preservative:	HgCl and Cool	Date Analyzed:	08-04-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	106 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

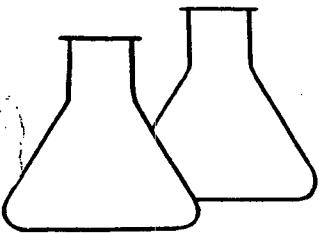
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Stedje GC #1 Separator Pit C4072

Dennis L. O'Farrell
Analyst

Marvin D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Pit Bttm @ GW (7')	Date Reported:	08-04-93
Laboratory Number:	5820	Date Sampled:	08-03-93
Sample Matrix:	Water	Date Received:	08-03-93
Preservative:	HgCl and Cool	Date Analyzed:	08-04-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	94 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Stedje GC #1 Separator Pit C4072

Diane L. O'Connor
Analyst

Morin D. Young
Review

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CHAIN OF CUSTODY RECORD

C4072

Client/Project Name		Project Location	STEP	GC #	PIT	ANALYSIS/PARAMETERS			Remarks
Anoco	92140	STEOTEC	GC #1						
Sampler: (Signature)	<i>J. Gibson</i>	Chain of Custody Tape No.							
Sample No./Identification	Sample Date	Sample Time	Lab Number	Sample Matrix					
(1) 26 in (7')	8/3/93	0815	5819	WATER	2	✓			
PIT BOTTOM	8/3/93	1025	5820	WATER	2	✓			
(2) 6 in (7')									
Relinquished by: (Signature)	<i>J. Gibson</i>	8/3/93	1130	Received by: (Signature)			Date	Time	
Relinquished by: (Signature)				Received by: (Signature)			8-3-93	1145	
Relinquished by: (Signature)				Received by: (Signature)					

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