3R - 413

2007 AGWMR

JAN 2008

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

HARE GAS COM B #1
(G) SECTION 23 – T29N – R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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

January 2008

TABLE OF CONTENTS

2007 XTO GROUNDWATER REPORT

HARE GAS COM B #1

SITE DETAILS

LEGALS - TWN: 29N **RNG:** 11W **SEC:** 23 **UNIT:** G
NMOCD HAZARD RANKING: 60 **LAND TYPE:** FEE

PREVIOUS ACTIVITIES

Excavation: May-95 (2000 cy) **Additional Excavation:** June/Aug-05 (1600 cy)
Monitoring Wells: Apr-06 **Quarterly Sampling Initiated:** Dec-06

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

A summary of groundwater laboratory results is presented as Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2006 and 2007 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected during site monitoring activities indicate a groundwater gradient that trends towards the south. Figures 2 - 5 illustrate the estimated groundwater gradient for 2006 and 2007.

ANNUAL GROUNDWATER REMEDIATION REPORTS

The 2006 annual groundwater report was submitted to New Mexico Oil Conservation Division (NMOCD) in February 2007 proposing quarterly sampling of all monitoring wells until four (4) consecutive quarters have been analyzed for hydrocarbon constituents.

2007 ACTIVITIES

Groundwater monitoring wells, (MW-1, MW-2, MW-3, MW-4) were installed in April 2006 to evaluate impacts to groundwater. Groundwater samples were collected from monitoring wells numbered MW-1 through MW-4 during the last quarter of 2006 and for three quarters in 2007. No detectable levels of benzene, toluene, ethyl benzene or total xylenes (BTEX) were observed in any of the four monitoring wells.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Reports are presented as Figures 6-9 representing drilling that occurred on site in April 2006.

DISPOSITION OF GENERATED WASTES

Waste generated (groundwater) during monitoring well sampling and development was placed in the produced water tank located on the well site.

CONCLUSIONS

In January 1998 XTO Energy Inc. (XTO) acquired the Hare Gas Com B #1 from Amoco Production Company. In June 2005 XTO was notified by a contractor working within the area that discolored soil was observed. XTO conducted an evaluation of the area that

included excavation of test holes to determine the extent of impacts to soil and removal of almost 1,600 cubic yards of hydrocarbon impacted soil. The field notes, analytical data and map summarizing the field notes are included (Attachment 2). Historical records located through the NMOCD website indicate a potential spill from a production tank was excavated in May 1995 (Attachment 3). In 2006 four groundwater monitoring wells were installed to delineate the extent of hydrocarbon impact to groundwater.

Groundwater analytical data from MW-1, MW-2, MW-3 and MW-4 for four (4) consecutive quarters have demonstrated no detectable levels of BTEX constituents and New Mexico Water Quality Control Commission (NMWQCC) standards have been met. The quarterly sampling has confirmed no rebound of BTEX constituents has occurred, therefore, XTO requests closure of this site.

RECOMMENDATIONS

- XTO requests closure of this site.
- Following OCD approval for closure, all monitoring well locations will be abandoned in accordance with the monitoring well abandonment plan.

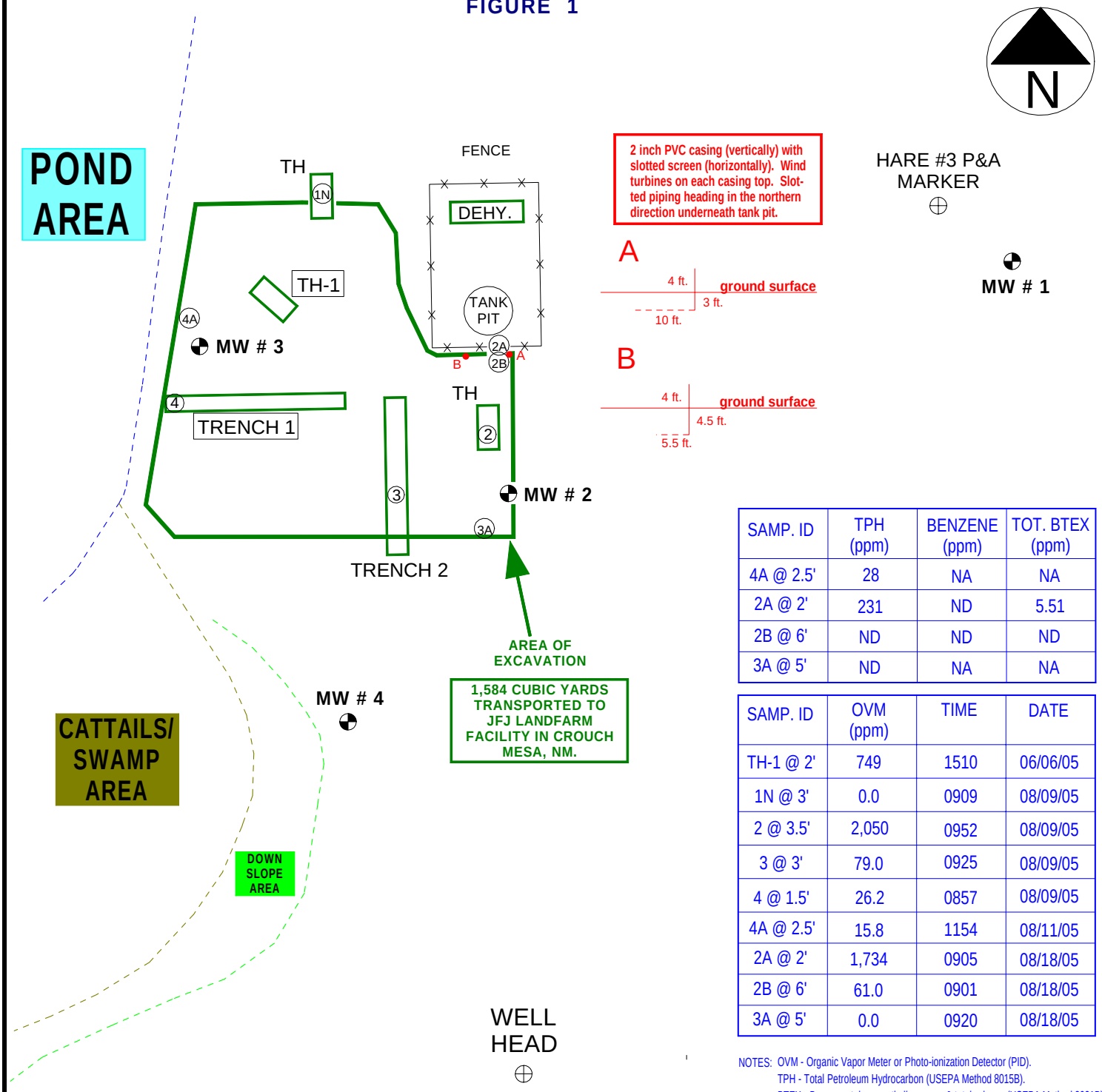
TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

HARE GAS COM B #1
UNIT G, SEC. 23, T29N, R11W

					BTEX EPA Method 801 (PPB)			
Sample Date	Monitor Well No.	DTW (ft)	TD (ft)	Product (ft)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
7-Dec-06	MW #1	9.49	16.36		ND	ND	ND	ND
29-Mar-07		9.35	16.36		ND	ND	ND	ND
12-Jun-07		10.8	16.36		ND	ND	ND	ND
25-Sep-07		11.1	16.36		ND	ND	ND	ND
7-Dec-06	MW #2	7.77	14.61		ND	ND	ND	ND
29-Mar-07		7.5	14.61		ND	ND	ND	ND
12-Jun-07		8.7	14.61		ND	ND	ND	ND
25-Sep-07		8.85	14.61		ND	ND	ND	ND
7-Dec-06	MW #3	5.15	17.48		ND	ND	ND	ND
29-Mar-07		5.00	17.48		4.6	ND	ND	ND
12-Jun-07		6.51	17.48		ND	ND	ND	ND
25-Sep-07		6.22	17.48		ND	ND	ND	ND
7-Dec-06	MW #4	8.48	18.08		ND	ND	ND	ND
29-Mar-07		8.21	18.08		ND	ND	ND	ND
12-Jun-07		9.31	18.08		ND	ND	ND	ND
25-Sep-07		10	18.08		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

FIGURE 1



SAMP. ID	TPH (ppm)	BENZENE (ppm)	TOT. BTEX (ppm)
4A @ 2.5'	28	NA	NA
2A @ 2'	231	ND	5.51
2B @ 6'	ND	ND	ND
3A @ 5'	ND	NA	NA

SAMP. ID	OVM (ppm)	TIME	DATE
TH-1 @ 2'	749	1510	06/06/05
1N @ 3'	0.0	0909	08/09/05
2 @ 3.5'	2,050	0952	08/09/05
3 @ 3'	79.0	0925	08/09/05
4 @ 1.5'	26.2	0857	08/09/05
4A @ 2.5'	15.8	1154	08/11/05
2A @ 2'	1,734	0905	08/18/05
2B @ 6'	61.0	0901	08/18/05
3A @ 5'	0.0	0920	08/18/05

NOTES: OVM - Organic Vapor Meter or Photo-ionization Detector (PID).
TPH - Total Petroleum Hydrocarbon (USEPA Method 8015B).
BTEX - Benzene, toluene, ethylbenzene, & total xylenes (USEPA Method 8021B).
ppm - Parts per million or milligram per kilogram (mg/kg).

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

XTO ENERGY INC.

HARE GC B #1

SW/4 NE/4 SEC. 23, T29N, R11W

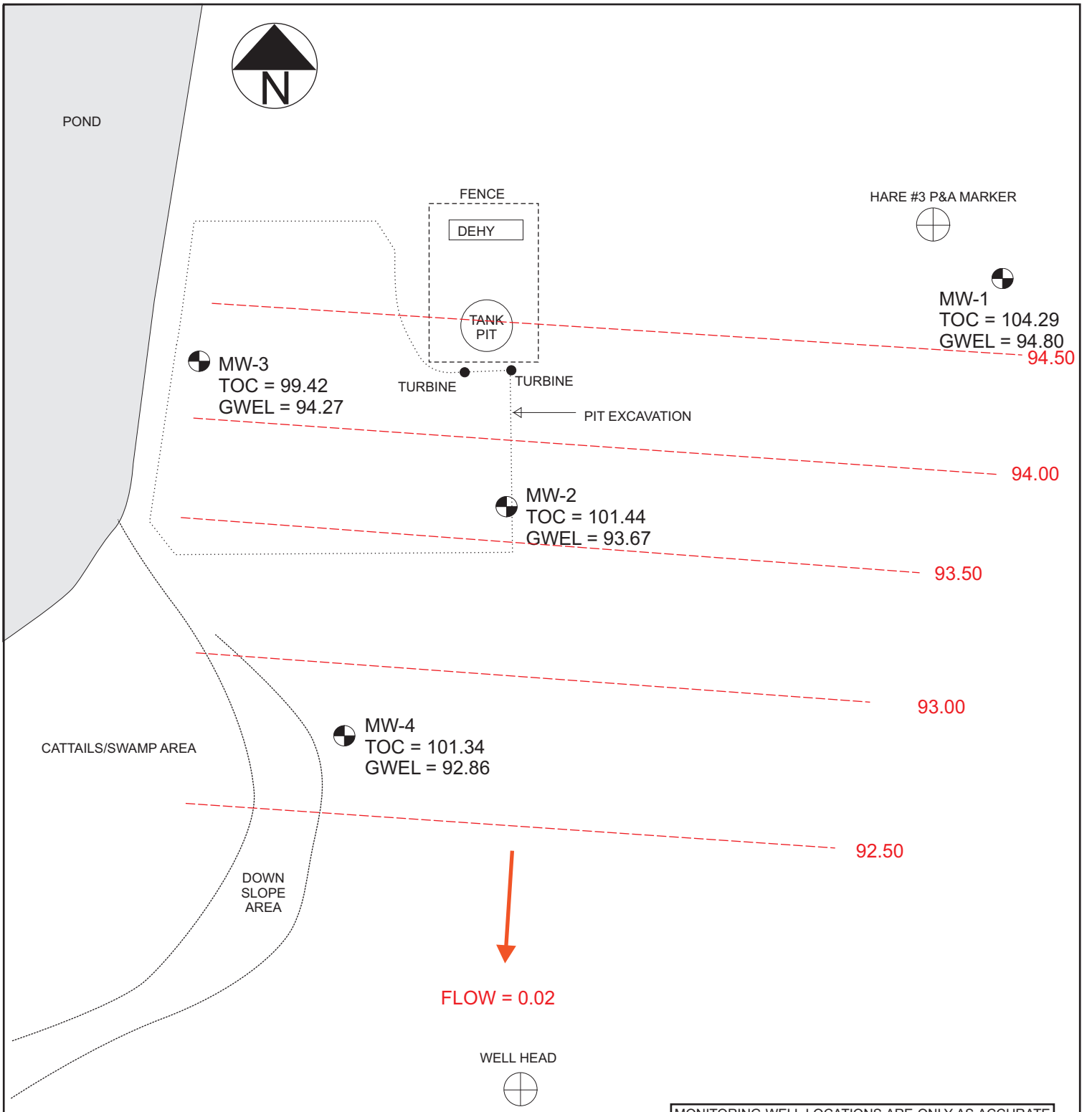
SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: SITE CLEAN-UP
FILENAME: HARE-GC-B1-SM.SKF
DRAWN BY: NJV
REVISED: 4/27/06

SITE MAP

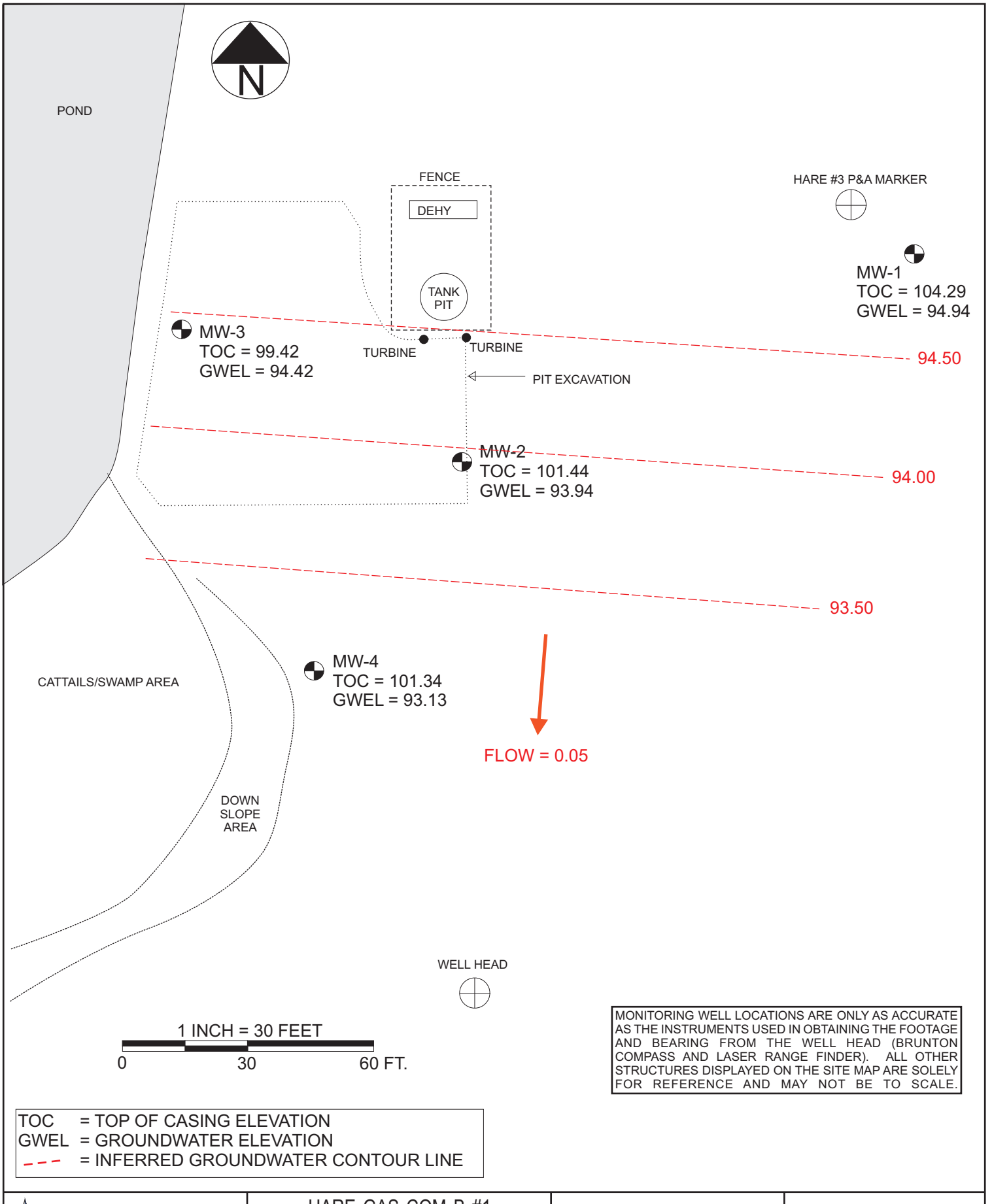
04/06



MONITORING 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.

TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
- - - = INFERRED GROUNDWATER CONTOUR LINE

Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	HARE GAS COM B #1 SW/4 NE/4 SEC. 23, T29N, R11W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/11/06	FIGURE 2 GROUNDWATER GRADIENT MAP 12/07/2006



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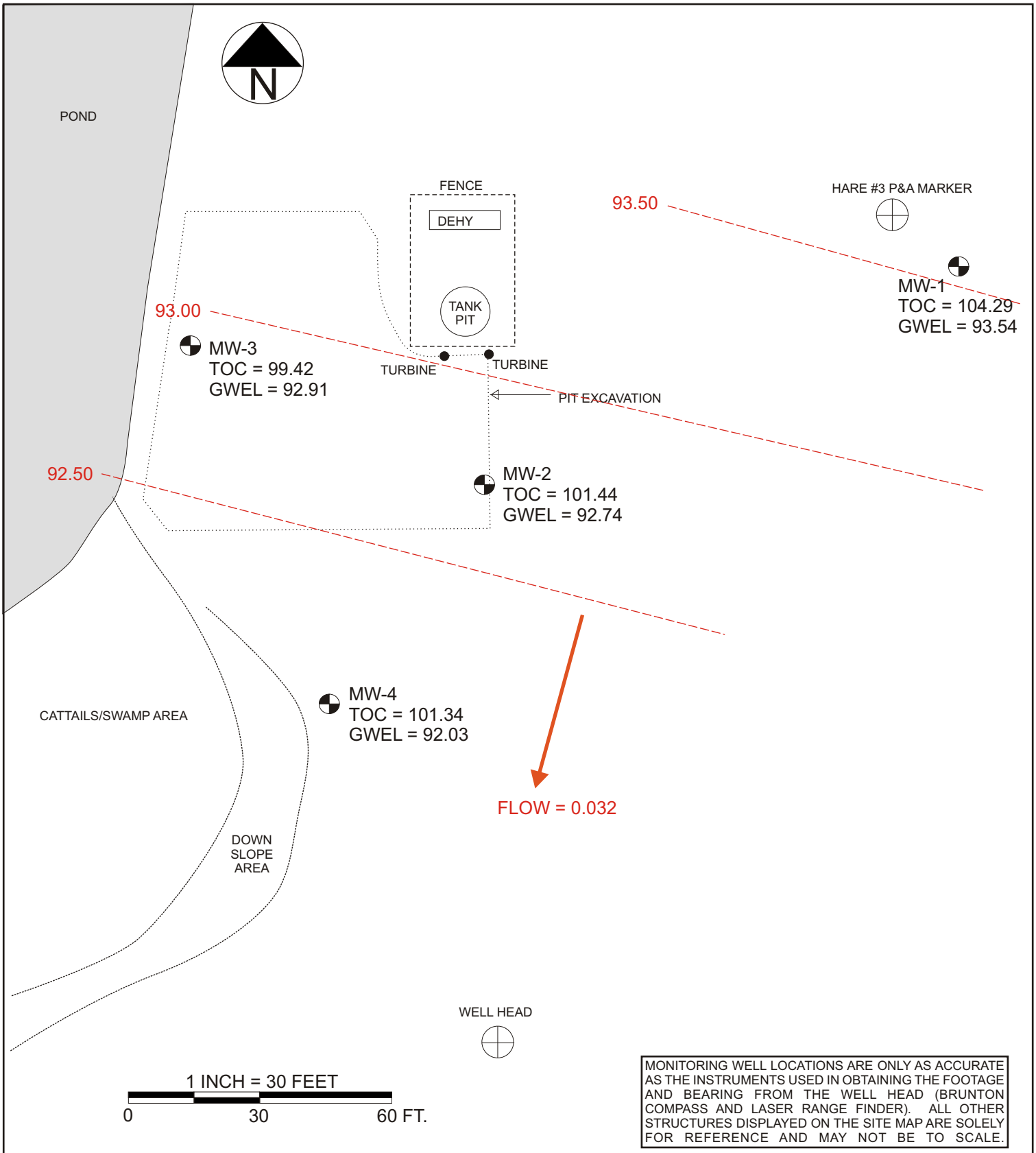
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	HARE GAS COM B #1 SW/4 NE/4 SEC. 23, T29N, R11W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 03/30/07	GROUNDWATER GRADIENT MAP 03/29/07 FIGURE 3



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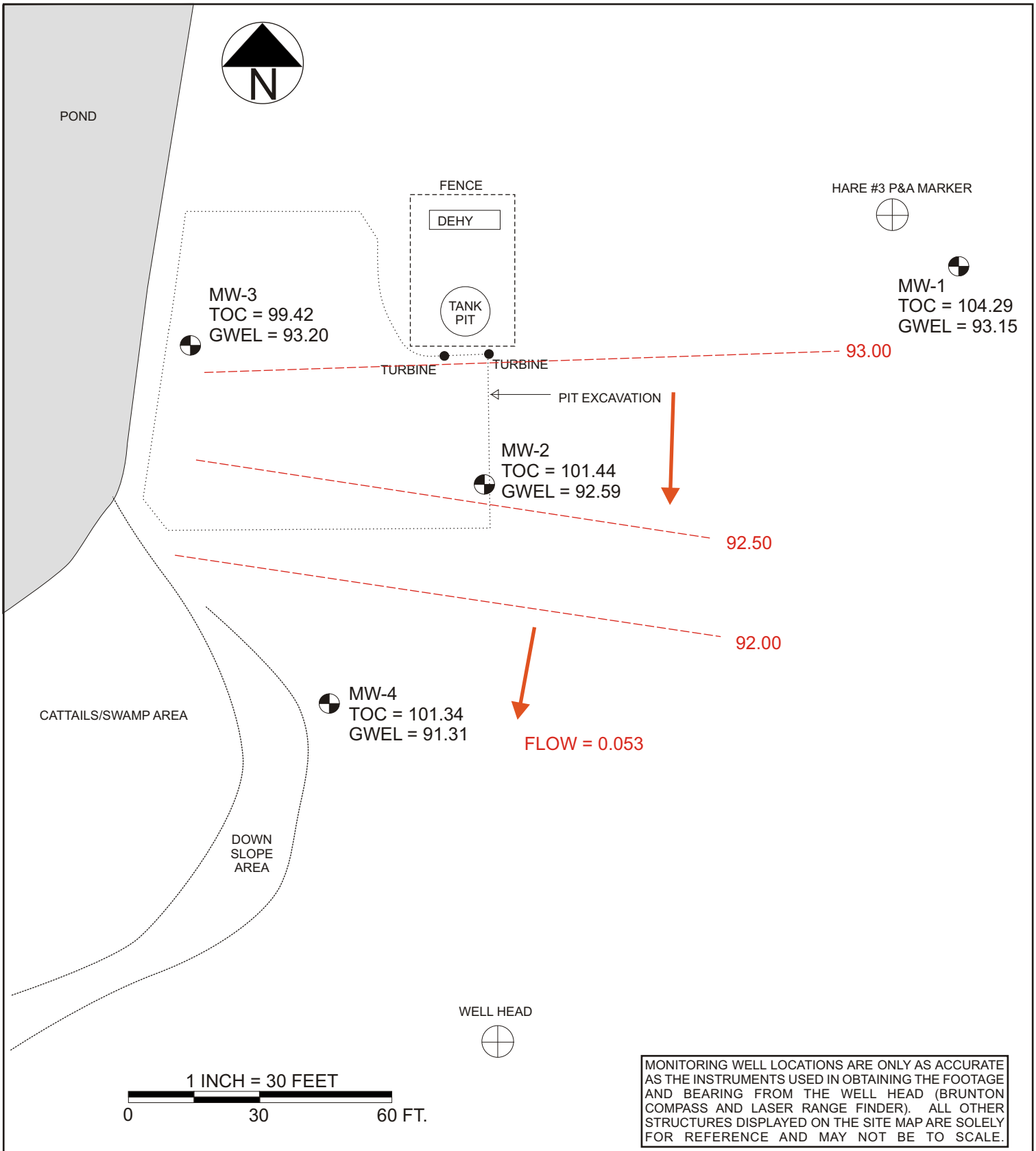
TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
- - - = INFERRED GROUNDWATER CONTOUR LINE

Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	HARE GAS COM B #1 SW/4 NE/4 SEC. 23, T29N, R11W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 06/21/07	GROUNDWATER GRADIENT MAP 06/13/07 FIGURE 4



MONITORING 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.

TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
- - - = INFERRED GROUNDWATER CONTOUR LINE

Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	HARE GAS COM B #1 SW/4 NE/4 SEC. 23, T29N, R11W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 09/28/07	GROUNDWATER GRADIENT MAP 09/27/07 FIGURE 5

FIGURE 6

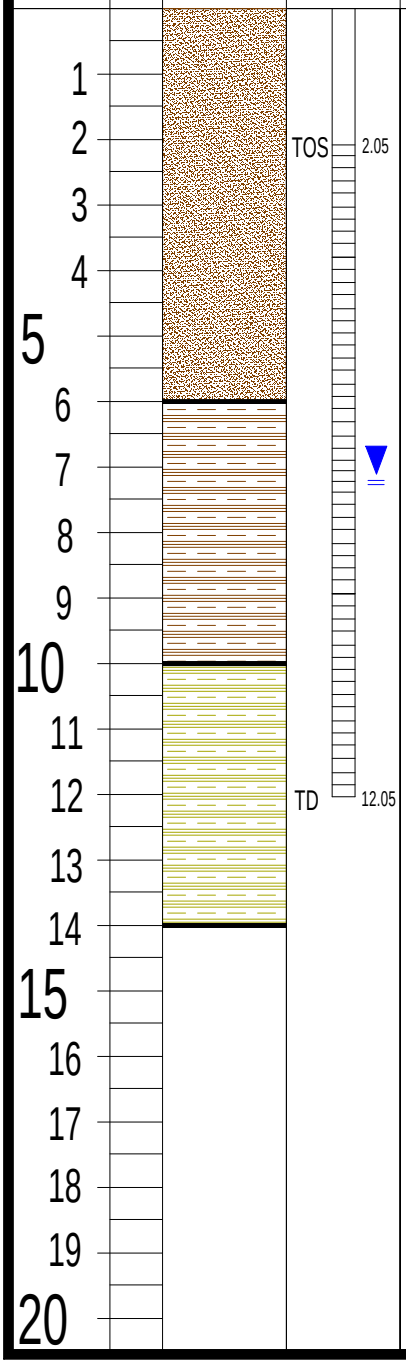
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT:	XTO ENERGY INC.
LOCATION NAME:	HARE GC B #1 - DEHYDRATOR PIT, UNIT G, SEC. 23, T29N, R11W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	200 FT., N31E FROM WELL HEAD.

BORING #.....	BH-1
MW #.....	1
PAGE #.....	1
DATE STARTED	4/14/06
DATE FINISHED	4/14/06
OPERATOR.....	DP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.60 FT. ABOVE GROUND SURFACE.

DARK YELLOWISH BROWN SAND PHASING INTO SILTY CLAY, NON COHESIVE TO COHESIVE, FIRM, SLIGHTLY MOIST, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (0.0 - 6.0 FT. BELOW GRADE).

GW DEPTH ON 4/26/06 = 7.14 FT. (APPROX.) FROM GROUND SURFACE.

DARK YELLOWISH BROWN SILTY CLAY, COHESIVE, WET TO SATURATED, FIRM TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (6.0 - 10.0 FT. BELOW GRADE).

OLIVE GRAY SILTY CLAY TO CLAY, COHESIVE TO MEDIUM PLASTIC, FIRM, SUPERSATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (10.0 - 14.0 FT. BELOW GRADE).

NOTE:

- SAND.
- SILTY CLAY TO CLAY.

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 2.60 ft. above grade to 2.05 ft. below grade, 0.010 slotted screen between 2.05 to 12.05 feet below grade, sanded annular to 1.00 ft. below grade, bentonite chips to surface, locking cap at monitor well top, cemented well protector around above grade casing, and secured with padlock.

DRAWING: HARE GC B 1-MW1.SKF	DATE: 04/14/06	DWN BY: NJV

FIGURE 7

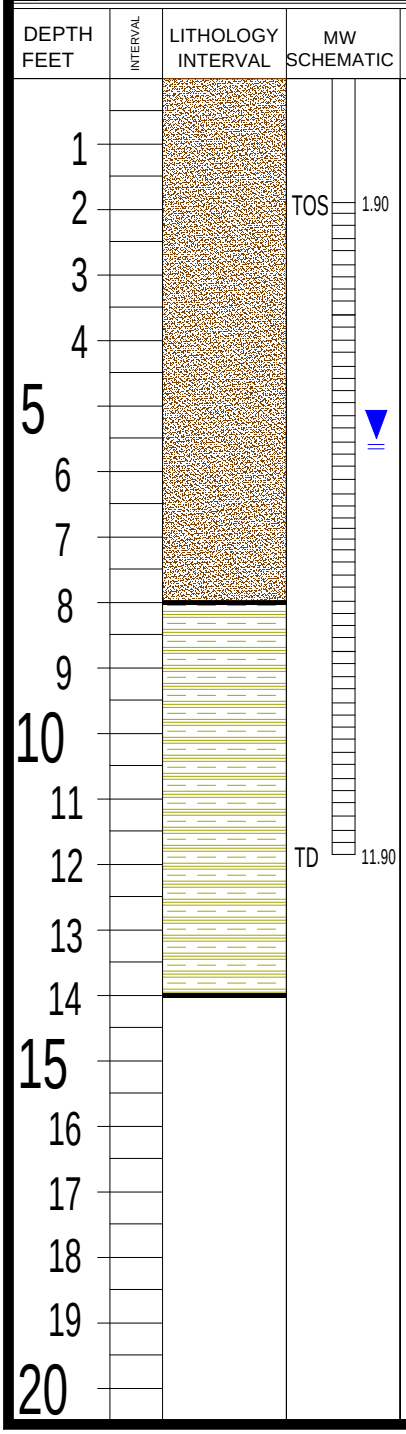
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT:	XTO ENERGY INC.
LOCATION NAME:	HARE GC B #1 - DEHYDRATOR PIT, UNIT G, SEC. 23, T29N, R11W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	122.5 FT., N1.5E FROM WELL HEAD.

BORING #.....	BH-2
MW #.....	2
PAGE #.....	2
DATE STARTED	4/14/06
DATE FINISHED	4/14/06
OPERATOR.....	DP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.50 FT. ABOVE GROUND SURFACE.

DARK YELLOWISH BROWN SAND (BACKFILL), NON COHESIVE, FIRM, SLIGHTLY MOIST TO SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (0.0 - 8.0 FT. BELOW GRADE).

GW DEPTH ON 4/26/06 = 5.45 FT. (APPROX.) FROM GROUND SURFACE.

OLIVE GRAY SILTY CLAY TO CLAY, COHESIVE TO MEDIUM PLASTIC, FIRM, SATURATED TO SUPERSATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (8.0 - 14.0 FT. BELOW GRADE).

NOTE:

- SAND.
- SILTY CLAY TO CLAY.

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 2.50 ft. above grade to 1.90 ft. below grade, 0.010 slotted screen between 1.90 to 11.90 feet below grade, sanded annular to 1.00 ft. below grade, bentonite chips to surface, locking cap at monitor well top, cemented well protector around above grade casing, and secured with padlock.

DRAWING: HARE GC B 1-MW2.SKF | DATE: 04/14/06 | DWN BY: NJV

FIGURE 8

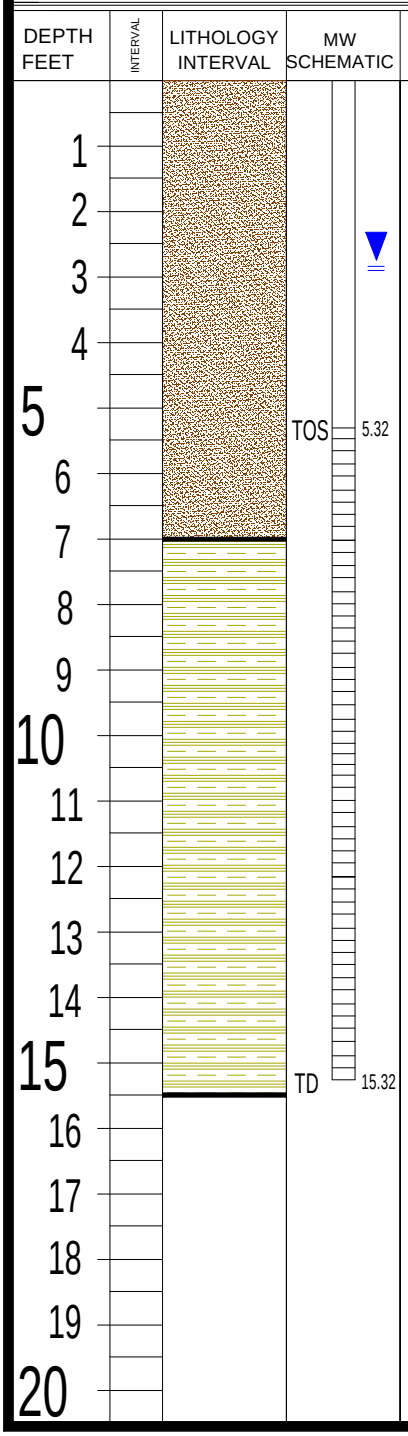
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT:	XTO ENERGY INC.
LOCATION NAME:	HARE GC B #1 - DEHYDRATOR PIT, UNIT G, SEC. 23, T29N, R11W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	168 FT., N24W FROM WELL HEAD.

BORING #.....	BH-3
MW #.....	3
PAGE #.....	3
DATE STARTED	4/27/06
DATE FINISHED	4/27/06
OPERATOR.....	DP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.55 FT. ABOVE GROUND SURFACE.

GW DEPTH ON 4/26/06 = 2.73 FT. (APPROX.) FROM GROUND SURFACE.

DARK YELLOWISH BROWN SAND (BACKFILL), NON COHESIVE, FIRM, SLIGHTLY MOIST TO SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).

OLIVE GRAY SILTY CLAY TO CLAY, COHESIVE TO MEDIUM PLASTIC, FIRM, SATURATED TO SUPERSATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (7.0 - 15.5 FT. BELOW GRADE).

NOTE:

- SAND.
- SILTY CLAY TO CLAY.

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 2.55 ft. above grade to 5.32 ft. below grade, 0.010 slotted screen between 5.32 to 15.32 feet below grade, sanded annular to 2.00 ft. below grade, bentonite chips to surface, locking cap at monitor well top, cemented well protector around above grade casing, and secured with padlock.

DRAWING: HARE GC B 1-MW3.SKF | DATE: 04/27/06 | DWN BY: NJV

FIGURE 9

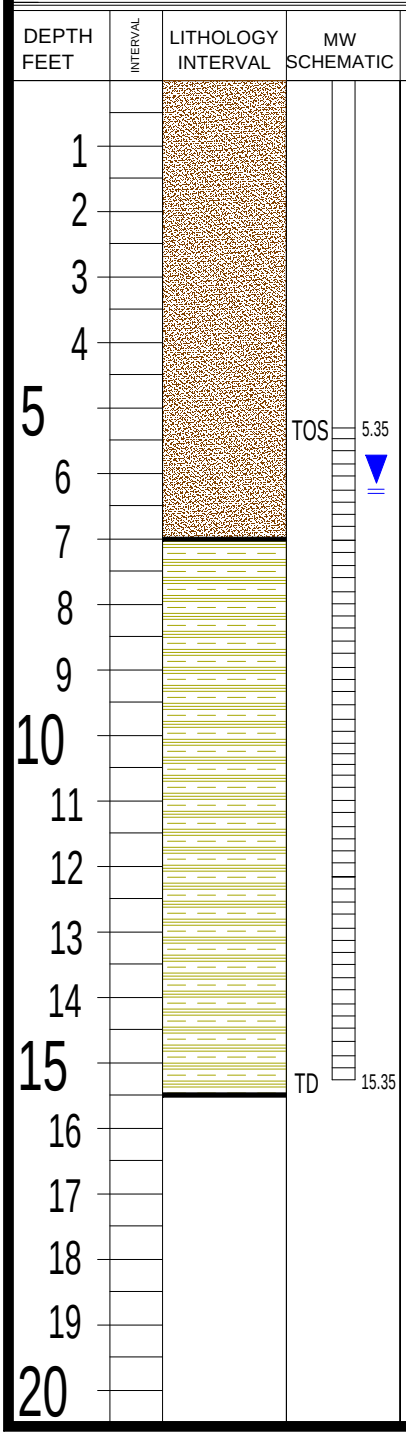
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT:	XTO ENERGY INC.
LOCATION NAME:	HARE GC B #1 - DEHYDRATOR PIT, UNIT G, SEC. 23, T29N, R11W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	83 FT., N26.5W FROM WELL HEAD.

BORING #.....	BH-4
MW #.....	4
PAGE #.....	4
DATE STARTED	4/27/06
DATE FINISHED	4/27/06
OPERATOR.....	DP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.50 FT. ABOVE GROUND SURFACE.

DARK YELLOWISH BROWN SAND, NON COHESIVE, FIRM, SLIGHTLY MOIST TO WET, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).

GW DEPTH ON 4/26/06 = 6.13 FT. (APPROX.) FROM GROUND SURFACE.

OLIVE GRAY SILTY CLAY TO CLAY, COHESIVE TO MEDIUM PLASTIC, FIRM, WET TO SUPERSATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (7.0 - 15.5 FT. BELOW GRADE).

NOTE:

- SAND.
- SILTY CLAY TO CLAY.

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 2.50 ft. above grade to 5.35 ft. below grade, 0.010 slotted screen between 5.35 to 15.35 feet below grade, sanded annular to 2.50 ft. below grade, bentonite chips to 0.5 ft. below grade, locking cap at monitor well top, cemented well protector around above grade casing, and secured with padlock.

DRAWING: HARE GC B 1-MW4.SKF | DATE: 01/29/07 | DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-06*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0612122

Lab ID: 0612122-01 **Collection Date:** 12/7/2006 12:03:00 PM
Client Sample ID: Hare Gas Com B1 MW-1 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 7:03:33 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 7:03:33 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 7:03:33 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 7:03:33 PM
Surr: 4-Bromofluorobenzene	80.8	70.2-105		%REC	1	12/13/2006 7:03:33 PM

Lab ID: 0612122-02 **Collection Date:** 12/7/2006 12:34:00 PM
Client Sample ID: Hare Gas Com B1 MW-3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 7:33:43 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 7:33:43 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 7:33:43 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 7:33:43 PM
Surr: 4-Bromofluorobenzene	82.2	70.2-105		%REC	1	12/13/2006 7:33:43 PM

Lab ID: 0612122-03 **Collection Date:** 12/7/2006 1:15:00 PM
Client Sample ID: Hare Gas Com B1 MW-4 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 8:03:49 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 8:03:49 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 8:03:49 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 8:03:49 PM
Surr: 4-Bromofluorobenzene	82.5	70.2-105		%REC	1	12/13/2006 8:03:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-06*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0612122

Lab ID: 0612122-04 **Collection Date:** 12/7/2006 1:42:00 PM
Client Sample ID: Hare Gas Com B1 MW-2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 8:33:52 PM
Surr: 4-Bromofluorobenzene	79.7	70.2-105		%REC	1	12/13/2006 8:33:52 PM

Lab ID: 0612122-05 **Collection Date:** 12/7/2006 2:45:00 PM
Client Sample ID: ~~Hare Gas Com I1 MW-1~~ **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 9:03:58 PM
Surr: 4-Bromofluorobenzene	79.4	70.2-105		%REC	1	12/13/2006 9:03:58 PM

Lab ID: 0612122-06 **Collection Date:** 12/7/2006 2:30:00 PM
Client Sample ID: ~~Hare Gas Com I1 MW-3~~ **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 9:33:55 PM
Surr: 4-Bromofluorobenzene	80.7	70.2-105		%REC	1	12/13/2006 9:33:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water **Work Order:** 0612122

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R21800**		Analysis Date:	12/13/2006 8:26:25 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R21800**		Analysis Date:	12/13/2006 4:33:03 PM	
Benzene	18.09	µg/L	1.0	90.4	85.9	113			
Toluene	17.99	µg/L	1.0	89.9	86.4	113			
Ethylbenzene	17.55	µg/L	1.0	87.7	83.5	118			
Xylenes, Total	52.58	µg/L	3.0	87.6	83.4	122			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Apr-07*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0703474

Lab ID: 0703474-13
Client Sample ID: Hare GCBI MW-1
Collection Date: 3/29/2007 8:47:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/3/2007 2:13:13 PM
Toluene	ND	1.0		µg/L	1	4/3/2007 2:13:13 PM
Ethylbenzene	ND	1.0		µg/L	1	4/3/2007 2:13:13 PM
Xylenes, Total	ND	2.0		µg/L	1	4/3/2007 2:13:13 PM
Surr: 4-Bromofluorobenzene	91.3	70.2-105		%REC	1	4/3/2007 2:13:13 PM

Lab ID: 0703474-14
Client Sample ID: Hare GCBI MW-2
Collection Date: 3/29/2007 9:25:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/3/2007 2:43:18 PM
Toluene	ND	1.0		µg/L	1	4/3/2007 2:43:18 PM
Ethylbenzene	ND	1.0		µg/L	1	4/3/2007 2:43:18 PM
Xylenes, Total	ND	2.0		µg/L	1	4/3/2007 2:43:18 PM
Surr: 4-Bromofluorobenzene	91.0	70.2-105		%REC	1	4/3/2007 2:43:18 PM

Lab ID: 0703474-15
Client Sample ID: Hare GCBI MW-3
Collection Date: 3/29/2007 9:53:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	4.6	1.0		µg/L	1	4/2/2007 8:40:17 PM
Toluene	ND	1.0		µg/L	1	4/2/2007 8:40:17 PM
Ethylbenzene	ND	1.0		µg/L	1	4/2/2007 8:40:17 PM
Xylenes, Total	ND	2.0		µg/L	1	4/2/2007 8:40:17 PM
Surr: 4-Bromofluorobenzene	92.7	70.2-105		%REC	1	4/2/2007 8:40:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory, Inc.

Date: *05-Apr-07*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0703474

Lab ID: 0703474-16
Client Sample ID: Hare GCBI MW-4
Collection Date: 3/29/2007 10:24:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/2/2007 9:10:19 PM
Toluene	ND	1.0		µg/L	1	4/2/2007 9:10:19 PM
Ethylbenzene	ND	1.0		µg/L	1	4/2/2007 9:10:19 PM
Xylenes, Total	ND	2.0		µg/L	1	4/2/2007 9:10:19 PM
Surr: 4-Bromofluorobenzene	91.6	70.2-105		%REC	1	4/2/2007 9:10:19 PM

Lab ID: 0703474-17
Client Sample ID: ~~Federal GCHI MW-1~~
Collection Date: 3/29/2007 11:22:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	39	20		µg/L	20	4/2/2007 9:43:01 PM
Toluene	ND	20		µg/L	20	4/2/2007 9:43:01 PM
Ethylbenzene	560	20		µg/L	20	4/2/2007 9:43:01 PM
Xylenes, Total	2300	40		µg/L	20	4/2/2007 9:43:01 PM
Surr: 4-Bromofluorobenzene	94.2	70.2-105		%REC	20	4/2/2007 9:43:01 PM

Lab ID: 0703474-18
Client Sample ID: ~~Federal GCHI MW-2~~
Collection Date: 3/29/2007 11:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	55	1.0		µg/L	1	4/2/2007 10:43:00 PM
Toluene	ND	1.0		µg/L	1	4/2/2007 10:43:00 PM
Ethylbenzene	39	1.0		µg/L	1	4/2/2007 10:43:00 PM
Xylenes, Total	60	2.0		µg/L	1	4/2/2007 10:43:00 PM
Surr: 4-Bromofluorobenzene	95.0	70.2-105		%REC	1	4/2/2007 10:43:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water
Work Order: 0703474

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0703474-01A MSD		*MSD*			Batch ID: **R23096**		Analysis Date:		4/3/2007 10:37:09 AM
Benzene	19.32	µg/L	1.0	96.6	85.9	113	2.09	27	
Toluene	19.77	µg/L	1.0	98.8	86.4	113	1.70	19	
Ethylbenzene	19.98	µg/L	1.0	99.9	83.5	118	2.36	10	
Xylenes, Total	59.32	µg/L	2.0	98.9	83.4	122	2.06	13	
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R23076**		Analysis Date:		4/2/2007 8:45:02 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML RB-II		*MBLK*			Batch ID: **R23076**		Analysis Date:		4/3/2007 12:13:23 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R23096**		Analysis Date:		4/3/2007 8:06:11 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R23114**		Analysis Date:		4/4/2007 8:09:19 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R23076**		Analysis Date:		4/2/2007 5:37:16 PM
Benzene	23.32	µg/L	1.0	117	85.9	113			S
Toluene	22.53	µg/L	1.0	111	86.4	113			
Ethylbenzene	20.71	µg/L	1.0	104	83.5	118			
Xylenes, Total	62.13	µg/L	2.0	103	83.4	122			
Sample ID: 100NG BTEX LCS-II		*LCS*			Batch ID: **R23076**		Analysis Date:		4/3/2007 12:43:23 AM
Benzene	19.86	µg/L	1.0	97.6	85.9	113			
Toluene	20.09	µg/L	1.0	99.8	86.4	113			
Ethylbenzene	20.01	µg/L	1.0	100	83.5	118			
Xylenes, Total	59.59	µg/L	2.0	99.0	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R23096**		Analysis Date:		4/3/2007 4:13:33 PM
Benzene	20.24	µg/L	1.0	99.1	85.9	113			
Toluene	20.61	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.85	µg/L	1.0	104	83.5	118			
Xylenes, Total	62.10	µg/L	2.0	103	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R23114**		Analysis Date:		4/4/2007 12:30:51 PM
Benzene	19.85	µg/L	1.0	99.2	85.9	113			
Toluene	20.02	µg/L	1.0	100	86.4	113			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water
Work Order: 0703474

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R23114**		Analysis Date:		4/4/2007 12:30:51 PM
Ethylbenzene	20.43	µg/L	1.0	102	83.5	118			
Xylenes, Total	60.81	µg/L	2.0	101	83.4	122			
Sample ID: 100NG BTEX LCSD-I		*LCSD*			Batch ID: **R23076**		Analysis Date:		4/3/2007 1:13:30 AM
Benzene	19.77	µg/L	1.0	97.2	85.9	113	0.474	27	
Toluene	19.93	µg/L	1.0	99.0	86.4	113	0.809	19	
Ethylbenzene	19.91	µg/L	1.0	99.6	83.5	118	0.511	10	
Xylenes, Total	59.20	µg/L	2.0	98.3	83.4	122	0.657	13	
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID: **R23114**		Analysis Date:		4/4/2007 1:01:01 PM
Benzene	19.57	µg/L	1.0	97.8	85.9	113	1.42	27	
Toluene	19.76	µg/L	1.0	98.8	86.4	113	1.32	19	
Ethylbenzene	20.00	µg/L	1.0	100	83.5	118	2.11	10	
Xylenes, Total	59.61	µg/L	2.0	99.3	83.4	122	1.99	13	
Sample ID: 0703474-01A MS		*MS*			Batch ID: **R23096**		Analysis Date:		4/3/2007 10:06:58 AM
Benzene	18.92	µg/L	1.0	94.6	85.9	113			
Toluene	19.43	µg/L	1.0	97.2	86.4	113			
Ethylbenzene	19.52	µg/L	1.0	97.6	83.5	118			
Xylenes, Total	58.11	µg/L	2.0	96.8	83.4	122			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Jun-07*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0706237

Lab ID: 0706237-19 **Collection Date:** 6/13/2007 1:55:00 PM
Client Sample ID: Hare GCBI MW-1 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2007 8:43:32 PM
Toluene	ND	1.0		µg/L	1	6/19/2007 8:43:32 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2007 8:43:32 PM
Xylenes, Total	ND	2.0		µg/L	1	6/19/2007 8:43:32 PM
Surr: 4-Bromofluorobenzene	84.8	70.2-105		%REC	1	6/19/2007 8:43:32 PM

Lab ID: 0706237-20 **Collection Date:** 6/13/2007 2:19:00 PM
Client Sample ID: Hare GCBI MW-2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2007 9:13:38 PM
Toluene	ND	1.0		µg/L	1	6/19/2007 9:13:38 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2007 9:13:38 PM
Xylenes, Total	ND	2.0		µg/L	1	6/19/2007 9:13:38 PM
Surr: 4-Bromofluorobenzene	83.3	70.2-105		%REC	1	6/19/2007 9:13:38 PM

Lab ID: 0706237-21 **Collection Date:** 6/13/2007 2:37:00 PM
Client Sample ID: Hare GCBI MW-3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2007 9:43:43 PM
Toluene	ND	1.0		µg/L	1	6/19/2007 9:43:43 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2007 9:43:43 PM
Xylenes, Total	ND	2.0		µg/L	1	6/19/2007 9:43:43 PM
Surr: 4-Bromofluorobenzene	83.8	70.2-105		%REC	1	6/19/2007 9:43:43 PM

Qualifiers:
- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Jun-07*

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0706237

Lab ID: 0706237-22
Client Sample ID: Hare GCBI MW-4

Collection Date: 6/13/2007 2:50:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Toluene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Xylenes, Total	ND	2.0		µg/L	1	6/19/2007 10:13:44 PM
Surr: 4-Bromofluorobenzene	82.2	70.2-105		%REC	1	6/19/2007 10:13:44 PM

Lab ID: 0706237-23
Client Sample ID: ~~Hare GCI/MW-2~~

Collection Date: 6/13/2007 3:32:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Toluene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2007 7:06:41 AM
Surr: 4-Bromofluorobenzene	90.0	70.2-105		%REC	1	6/20/2007 7:06:41 AM

Lab ID: 0706237-24
Client Sample ID: ~~Hare GCI/MW-3~~

Collection Date: 6/13/2007 3:53:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Toluene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2007 7:36:47 AM
Surr: 4-Bromofluorobenzene	82.0	70.2-105		%REC	1	6/20/2007 7:36:47 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water
Work Order: 0706237

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0706237-12A MSD		*MSD*			Batch ID:	**R24017**	Analysis Date:	6/18/2007 12:21:32 PM	
Benzene	18.72	µg/L	1.0	93.6	85.9	113	4.52	27	
Toluene	18.79	µg/L	1.0	94.0	86.4	113	4.64	19	
Ethylbenzene	18.60	µg/L	1.0	93.0	83.5	118	4.77	10	
Xylenes, Total	55.68	µg/L	2.0	92.8	83.4	122	3.58	13	
Sample ID: 0706237-25A MSD		*MSD*			Batch ID:	**R24049**	Analysis Date:	6/20/2007 9:23:49 PM	
Benzene	19.29	µg/L	1.0	96.5	85.9	113	2.88	27	
Toluene	18.77	µg/L	1.0	93.9	86.4	113	2.82	19	
Ethylbenzene	18.77	µg/L	1.0	93.8	83.5	118	2.60	10	
Xylenes, Total	54.62	µg/L	2.0	91.0	83.4	122	2.24	13	
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID:	**R24013**	Analysis Date:	6/15/2007 8:56:45 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID:	**R24017**	Analysis Date:	6/18/2007 10:56:56 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID:	**R24036**	Analysis Date:	6/19/2007 9:56:41 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID:	**R24049**	Analysis Date:	6/20/2007 10:05:12 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R24013**	Analysis Date:	6/15/2007 11:42:55 PM	
Benzene	19.24	µg/L	1.0	96.2	85.9	113			
Toluene	18.67	µg/L	1.0	93.4	86.4	113			
Ethylbenzene	18.36	µg/L	1.0	91.8	83.5	118			
Xylenes, Total	54.32	µg/L	2.0	90.5	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R24017**	Analysis Date:	6/18/2007 12:51:39 PM	
Benzene	18.99	µg/L	1.0	94.9	85.9	113			
Toluene	19.05	µg/L	1.0	95.3	86.4	113			
Ethylbenzene	18.69	µg/L	1.0	93.4	83.5	118			
Xylenes, Total	56.17	µg/L	2.0	93.6	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R24036**	Analysis Date:	6/19/2007 11:27:18 AM	
Benzene	19.95	µg/L	1.0	99.7	85.9	113			
Toluene	20.29	µg/L	1.0	101	86.4	113			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water
Work Order: 0706237

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R24036**		Analysis Date:	6/19/2007 1127:18 AM	
Ethylbenzene	20.10	µg/L	1.0	101	83.5	118			
Xylenes, Total	59.83	µg/L	2.0	99.7	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R24049**		Analysis Date:	6/20/2007 954:18 PM	
Benzene	18.97	µg/L	1.0	94.9	85.9	113			
Toluene	18.46	µg/L	1.0	92.3	86.4	113			
Ethylbenzene	18.62	µg/L	1.0	93.1	83.5	118			
Xylenes, Total	54.86	µg/L	2.0	91.4	83.4	122			
Sample ID: 0706237-12A MS		*MS*			Batch ID: **R24017**		Analysis Date:	6/18/2007 1151:22 AM	
Benzene	19.59	µg/L	1.0	98.0	85.9	113			
Toluene	19.68	µg/L	1.0	98.4	86.4	113			
Ethylbenzene	19.51	µg/L	1.0	97.5	83.5	118			
Xylenes, Total	57.71	µg/L	2.0	96.2	83.4	122			
Sample ID: 0706237-25A MS		*MS*			Batch ID: **R24049**		Analysis Date:	6/20/2007 853:24 PM	
Benzene	18.74	µg/L	1.0	93.7	85.9	113			
Toluene	18.25	µg/L	1.0	91.2	86.4	113			
Ethylbenzene	18.29	µg/L	1.0	91.4	83.5	118			
Xylenes, Total	53.41	µg/L	2.0	89.0	83.4	122			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Hare GC B1 MW-1
Lab Order:	0709406	**Collection Date:**	9/27/2007 8:31:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-18	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 6:14:43 AM
Toluene	ND	1.0		µg/L	1	10/3/2007 6:14:43 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 6:14:43 AM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 6:14:43 AM
Surr: 4-Bromofluorobenzene	84.8	70.2-105		%REC	1	10/3/2007 6:14:43 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Hare GC B1 MW-2
Lab Order:	0709406	**Collection Date:**	9/27/2007 8:56:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-19	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 6:44:41 AM
Toluene	ND	1.0		µg/L	1	10/3/2007 6:44:41 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 6:44:41 AM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 6:44:41 AM
Surr: 4-Bromofluorobenzene	82.9	70.2-105		%REC	1	10/3/2007 6:44:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Hare GC B1 MW-3
Lab Order:	0709406	**Collection Date:**	9/27/2007 9:26:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-20	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 5:33:49 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 5:33:49 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 5:33:49 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 5:33:49 PM
Surr: 4-Bromofluorobenzene	83.0	70.2-105		%REC	1	10/3/2007 5:33:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Hare GC B1 MW-4
Lab Order:	0709406	**Collection Date:**	9/27/2007 9:45:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-21	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 6:03:54 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 6:03:54 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 6:03:54 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 6:03:54 PM
Surr: 4-Bromofluorobenzene	84.1	70.2-105		%REC	1	10/3/2007 6:03:54 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Trip Blank
Lab Order:	0709406	**Collection Date:**	
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-28	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 11:35:56 PM
Surr: 4-Bromofluorobenzene	82.7	70.2-105		%REC	1	10/3/2007 11:35:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPOR

Client: XTO Energy
Project: Ground Water **Work Order:** 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0709406-01A MSD		*MSD*			Batch ID:	**R25409**	Analysis Date:		10/3/2007 3:45:13 AM
Benzene	20.98	µg/L	1.0	105	85.9	113	0.580	27	
Toluene	19.97	µg/L	1.0	99.6	86.4	113	0.764	19	
Ethylbenzene	19.95	µg/L	1.0	99.3	83.5	118	1.13	10	
Xylenes, Total	59.14	µg/L	2.0	98.1	83.4	122	0.764	13	
Sample ID: 0709406-20A MSD		*MSD*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 8:05:57 PM
Benzene	20.94	µg/L	1.0	102	85.9	113	1.15	27	
Toluene	19.97	µg/L	1.0	98.4	86.4	113	1.23	19	
Ethylbenzene	19.95	µg/L	1.0	99.2	83.5	118	2.10	10	
Xylenes, Total	58.87	µg/L	2.0	96.8	83.4	122	1.12	13	
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R25409**	Analysis Date:		10/2/2007 8:14:55 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 9:00:15 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R25409**	Analysis Date:		10/2/2007 8:15:26 PM
Benzene	20.25	µg/L	1.0	101	85.9	113			
Toluene	19.54	µg/L	1.0	97.3	86.4	113			
Ethylbenzene	19.60	µg/L	1.0	97.4	83.5	118			
Xylenes, Total	58.14	µg/L	2.0	96.2	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 11:00:56 AM
Benzene	20.65	µg/L	1.0	103	85.9	113			
Toluene	20.04	µg/L	1.0	99.8	86.4	113			
Ethylbenzene	20.04	µg/L	1.0	99.6	83.5	118			
Xylenes, Total	60.00	µg/L	2.0	99.5	83.4	122			
Sample ID: 0709406-01A MS		*MS*			Batch ID:	**R25409**	Analysis Date:		10/3/2007 3:15:09 AM
Benzene	21.10	µg/L	1.0	105	85.9	113			
Toluene	19.82	µg/L	1.0	98.8	86.4	113			
Ethylbenzene	19.73	µg/L	1.0	98.2	83.5	118			
Xylenes, Total	58.69	µg/L	2.0	97.4	83.4	122			
Sample ID: 0709406-20A MS		*MS*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 7:35:52 PM
Benzene	20.70	µg/L	1.0	101	85.9	113			
Toluene	19.73	µg/L	1.0	97.2	86.4	113			
Ethylbenzene	19.53	µg/L	1.0	97.1	83.5	118			
Xylenes, Total	58.22	µg/L	2.0	95.7	83.4	122			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPOR

Client: XTO Energy
Project: Ground Water **Work Order:** 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E160.1									
Sample ID: 0709406-08B MSD		*MSD*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	3202	mg/L	20	104	80	120	0.627	20	
Sample ID: MB-13963		*MBLK*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13963		*LCS*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	1001	mg/L	20	100	80	120			
Sample ID: 0709406-08B MS		*MS*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	3182	mg/L	20	102	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

BLFD. QUAD - VUL. 30045 D8047 36.71350 / 107.95998

CLIENT: XTO

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

LOCATION NO: B0292
COCR NO: HALL

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: HARE GC B WELL #: 1 TYPE: UNKNOWN
QUAD/UNIT: G SEC: 23 TWP: 29N RNG: 11W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1825'N/2330'E SW/NE CONTRACTOR: CORE (ROBERT)

DATE STARTED: 6/6/05
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 73 FT. x 73 FT. x 8 FT. DEEP. CUBIC YARDAGE: 1584
DISPOSAL FACILITY: JFJ LANDFARM - CROUCH MESA REMEDIATION METHOD: LANDFARMED?
LAND USE: RESIDENTIAL/RECREATIONAL LEASE: FEE FORMATION: DK

FIELD NOTES & REMARKS: ~~SPILL LOCATED APPROXIMATELY ___ FT. ___ FROM WELLHEAD.~~

DEPTH TO GROUNDWATER: >50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >200'
NMOCD RANKING SCORE: 60 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: ELEV. = 5480'

OVM CALIB. READ. = 53.6 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 12:25 am/pm DATE: 6/6/05

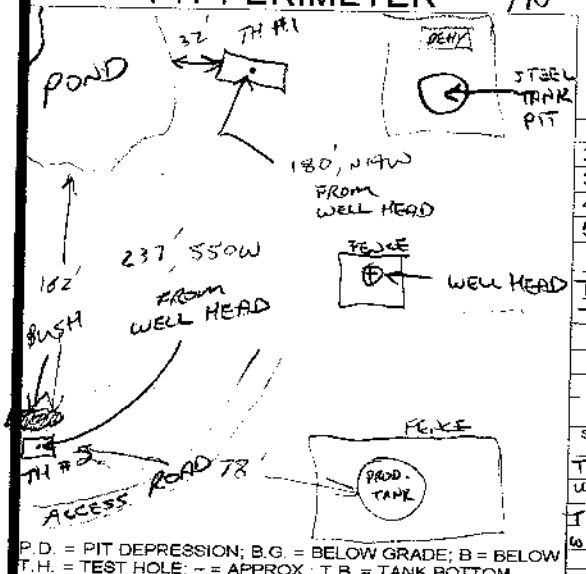
SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: DK. YELL. ORANGE TO BLACK
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): (LOOSE) (FIRM) / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / (SLIGHTLY PLASTIC) (COHESIVE) / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT (FIRM) (STIFF) / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST (WET) / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) NO EXPLANATION - BLACK @ TH1 @ 2' LT. GRAY SILTY CLAY @ TH2 @ 5'
HC ODOR DETECTED: (YES) NO EXPLANATION - TH1 @ 2' ONLY
SAMPLE TYPE: (GRAB) COMPOSITE - # OF PTS. —
ADDITIONAL COMMENTS:

SCALE
0 FT

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
TH1 @ 2'	749
TH2 @ 5'	8.7

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
TH1 @ 2' W.S.-P.U.	TPH & BTEX	1510
TH2 @ 5' W.S.-P.T.	TPH ONLY	1520

NW TEST HOLE ~~PIT~~ PROFILE

NOT APPLICABLE

TRAVEL NOTES:
CALLOUT: ONSITE:

revised: 09/12/01

bei1005B.skf

Hall Environmental Analysis Laboratory

Date: *14-Jun-05*

CLIENT: Blagg Engineering
Client Sample ID: TH1 @ 2'-W.S.-D.U.
Lab Order: 0506066
Collection Date: 6/6/2005 3:10:00 PM
Project: HARE GC B #1
Lab ID: 0506066-01
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/10/2005 4:00:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/10/2005 4:00:04 AM
Surr: DNOP	109	60-124		%REC	1	6/10/2005 4:00:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1400	250		mg/Kg	50	6/13/2005 9:39:38 AM
Surr: BFB	116	78.3-120		%REC	50	6/13/2005 9:39:38 AM
EPA METHOD 8260B: VOLATILES						Analyst: **BDH**
Benzene	ND	0.50		mg/Kg	10	6/10/2005
Toluene	6.3	0.50		mg/Kg	10	6/10/2005
Ethylbenzene	5.4	0.50		mg/Kg	10	6/10/2005
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	6/10/2005
1,2,4-Trimethylbenzene	17	0.50		mg/Kg	10	6/10/2005
1,3,5-Trimethylbenzene	11	0.50		mg/Kg	10	6/10/2005
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	6/10/2005
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	6/10/2005
Naphthalene	1.1	1.0		mg/Kg	10	6/10/2005
1-Methylnaphthalene	ND	2.0		mg/Kg	10	6/10/2005
2-Methylnaphthalene	ND	2.0		mg/Kg	10	6/10/2005
Acetone	ND	20		mg/Kg	10	6/10/2005
Bromobenzene	ND	0.50		mg/Kg	10	6/10/2005
Bromochloromethane	ND	0.50		mg/Kg	10	6/10/2005
Bromodichloromethane	ND	0.50		mg/Kg	10	6/10/2005
Bromoform	ND	0.50		mg/Kg	10	6/10/2005
Bromomethane	ND	1.0		mg/Kg	10	6/10/2005
2-Butanone	ND	10		mg/Kg	10	6/10/2005
Carbon disulfide	ND	5.0		mg/Kg	10	6/10/2005
Carbon tetrachloride	ND	1.0		mg/Kg	10	6/10/2005
Chlorobenzene	ND	0.50		mg/Kg	10	6/10/2005
Chloroethane	ND	1.0		mg/Kg	10	6/10/2005
Chloroform	ND	0.50		mg/Kg	10	6/10/2005
Chloromethane	ND	0.50		mg/Kg	10	6/10/2005
2-Chlorotoluene	ND	0.50		mg/Kg	10	6/10/2005
4-Chlorotoluene	ND	0.50		mg/Kg	10	6/10/2005
cis-1,2-DCE	ND	0.50		mg/Kg	10	6/10/2005
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	6/10/2005
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	6/10/2005
Dibromochloromethane	ND	0.50		mg/Kg	10	6/10/2005
Dibromomethane	ND	1.0		mg/Kg	10	6/10/2005
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	6/10/2005
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	6/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *14-Jun-05*

CLIENT: Blagg Engineering
Lab Order: 0506066
Project: HARE GC B #1
Lab ID: 0506066-01

Client Sample ID: TH1 @ 2'-W.S.-D.U.
Collection Date: 6/6/2005 3:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	6/10/2005
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	6/10/2005
1,1-Dichloroethane	ND	0.50		mg/Kg	10	6/10/2005
1,1-Dichloroethene	ND	0.50		mg/Kg	10	6/10/2005
1,2-Dichloropropane	ND	0.50		mg/Kg	10	6/10/2005
1,3-Dichloropropane	ND	0.50		mg/Kg	10	6/10/2005
2,2-Dichloropropane	ND	0.50		mg/Kg	10	6/10/2005
1,1-Dichloropropene	ND	0.50		mg/Kg	10	6/10/2005
Hexachlorobutadiene	ND	0.50		mg/Kg	10	6/10/2005
2-Hexanone	ND	5.0		mg/Kg	10	6/10/2005
Isopropylbenzene	1.1	0.50		mg/Kg	10	6/10/2005
4-Isopropyltoluene	0.97	0.50		mg/Kg	10	6/10/2005
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	6/10/2005
Methylene chloride	ND	1.5		mg/Kg	10	6/10/2005
n-Butylbenzene	ND	0.50		mg/Kg	10	6/10/2005
n-Propylbenzene	2.3	0.50		mg/Kg	10	6/10/2005
sec-Butylbenzene	0.86	0.50		mg/Kg	10	6/10/2005
Styrene	ND	0.50		mg/Kg	10	6/10/2005
tert-Butylbenzene	ND	0.50		mg/Kg	10	6/10/2005
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	6/10/2005
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	6/10/2005
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	6/10/2005
trans-1,2-DCE	ND	0.50		mg/Kg	10	6/10/2005
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	6/10/2005
1,2,3-Trichlorobenzene	ND	0.50		mg/Kg	10	6/10/2005
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	6/10/2005
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	6/10/2005
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	6/10/2005
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	6/10/2005
Trichlorofluoromethane	ND	0.50		mg/Kg	10	6/10/2005
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	6/10/2005
Vinyl chloride	ND	0.50		mg/Kg	10	6/10/2005
Xylenes, Total	66	0.50		mg/Kg	10	6/10/2005
Surr: 1,2-Dichloroethane-d4	84.9	74.4-113		%REC	10	6/10/2005
Surr: 4-Bromofluorobenzene	77.0	86.2-120	S	%REC	10	6/10/2005
Surr: Dibromofluoromethane	88.1	77.7-120		%REC	10	6/10/2005
Surr: Toluene-d8	83.3	80.1-113		%REC	10	6/10/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *14-Jun-05*

CLIENT: Blagg Engineering
Client Sample ID: TH1 @ 5'-W.S.-P.T.
Lab Order: 0506066
Collection Date: 6/6/2005 3:20:00 PM
Project: HARE GC B #1
Lab ID: 0506066-02
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/10/2005 6:02:58 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/10/2005 6:02:58 AM
Surr: DNOP	108	60-124		%REC	1	6/10/2005 6:02:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	16	5.0		mg/Kg	1	6/13/2005 10:10:08 AM
Surr: BFB	111	78.3-120		%REC	1	6/13/2005 10:10:08 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

Accreditation Applied:
NELAC ☐ USACE ☐
Other:

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

Client: BLAGG ENGR. / XTO ENERGY
Address: P.O. BOX 87
BLFD., NM 87413
Phone #: 505-632-1199
Fax #: 505-632-3903

Project Name: HARE G.C. B #1
Project #:
Project Manager: NJV
Sampler: NJV
Sample Temperature: 1.2

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: Cool	HEAL No.
6/6/05	1510	SOIL	TH1 @ 2' - W.S. - D.U.	1-4oz.			✓	05dec08-1
6/6/05	1520	SOIL	TH1 @ 5' - W.S. - P.T.	1-4oz.			✓	-2

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
		✓								✓		
		✓										

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
6/7/05	0700		6/7/05
		Relinquished By: (Signature)	Received By: (Signature) 1110

Remarks:

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID **MB-8125** Batch ID: **8125** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 2:27:57 AM** Prep Date **6/9/2005**
Client ID: Run ID: **FID(17A) 2_050609A** SeqNo: **370296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	11.14	0	10	0	111	60	124	0			

Sample ID **MB-8120** Batch ID: **8120** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 6:19:23 PM** Prep Date **6/8/2005**
Client ID: Run ID: **PIDFID_050610A** SeqNo: **370539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	1048	0	1000	0	105	78.3	120	0			

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

I

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID **mb-8120** Batch ID: **8120** Test Code: **SW8260B** Units: **mg/Kg** Analysis Date **6/10/2005** Prep Date **6/8/2005**
Client ID: Run ID: **NEPTUNE_050609B** SeqNo: **371392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.05									
Toluene	ND	0.05									
Ethylbenzene	ND	0.05									
Methyl tert-butyl ether (MTBE)	ND	0.05									
1,2,4-Trimethylbenzene	ND	0.05									
1,3,5-Trimethylbenzene	ND	0.05									
1,2-Dichloroethane (EDC)	ND	0.05									
1,2-Dibromoethane (EDB)	ND	0.05									
Naphthalene	ND	0.1									
1-Methylnaphthalene	ND	0.2									
2-Methylnaphthalene	ND	0.2									
Acetone	ND	2									
Bromobenzene	ND	0.05									
Bromochloromethane	ND	0.05									
Bromodichloromethane	ND	0.05									
Bromoform	ND	0.05									
Bromomethane	0.0279	0.1									
2-Butanone	ND	1									J
Carbon disulfide	ND	0.5									
Carbon tetrachloride	ND	0.1									
Chlorobenzene	ND	0.05									
Chloroethane	ND	0.1									
Chloroform	ND	0.05									
Chloromethane	0.0259	0.05									
2-Chlorotoluene	ND	0.05									J
4-Chlorotoluene	ND	0.05									
cis-1,2-DCE	ND	0.05									
cis-1,3-Dichloropropene	ND	0.05									

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

6/12

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT
Method Blank

1,2-Dibromo-3-chloropropane	ND	0.1
Dibromochloromethane	ND	0.05
Dibromomethane	ND	0.1
1,2-Dichlorobenzene	ND	0.05
1,3-Dichlorobenzene	ND	0.05
1,4-Dichlorobenzene	ND	0.05
Dichlorodifluoromethane	ND	0.05
1,1-Dichloroethane	ND	0.05
1,1-Dichloroethene	ND	0.05
1,2-Dichloropropane	ND	0.05
1,3-Dichloropropane	ND	0.05
2,2-Dichloropropane	ND	0.05
1,1-Dichloropropene	ND	0.05
Hexachlorobutadiene	ND	0.05
2-Hexanone	ND	0.5
Isopropylbenzene	ND	0.05
4-Isopropyltoluene	ND	0.05
4-Methyl-2-pentanone	ND	0.5
Methylene chloride	ND	0.15
n-Butylbenzene	ND	0.05
n-Propylbenzene	ND	0.05
sec-Butylbenzene	ND	0.05
Styrene	ND	0.05
tert-Butylbenzene	ND	0.05
1,1,1,2-Tetrachloroethane	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05
Tetrachloroethene (PCE)	ND	0.05
trans-1,2-DCE	ND	0.05
trans-1,3-Dichloropropene	ND	0.05
1,2,3-Trichlorobenzene	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05
1,1,1-Trichloroethane	ND	0.05
1,1,2-Trichloroethane	ND	0.05

7/12

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: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT

Method Blank

Trichloroethene (TCE)	ND	0.05						
Trichlorofluoromethane	ND	0.05						
1,2,3-Trichloropropane	ND	0.1						
Vinyl chloride	ND	0.05						
Xylenes, Total	ND	0.05						
Surr: 1,2-Dichloroethane-d4	0.4559	0	0.5	0	91.2	74.4	113	0
Surr: 4-Bromofluorobenzene	0.4916	0	0.5	0	98.3	86.2	120	0
Surr: Dibromofluoromethane	0.4562	0	0.5	0	91.2	77.7	120	0
Surr: Toluene-d8	0.4926	0	0.5	0	98.5	80.1	113	0

8/12

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: *14-Jun-05*

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **0506066-01AMS** Batch ID: **8125** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 4:30:46 AM** Prep Date **6/9/2005**
Client ID: **TH1 @ 2'-W.S.-D.** Run ID: **FID(17A) 2_050609A** SeqNo: **370311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35.91	10	50	0	71.8	67.4	117	0			
Surr: DNOP	5.23	0	5	0	105	74	125	0			

Sample ID **0506066-01AMSD** Batch ID: **8125** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 5:32:16 AM** Prep Date **6/9/2005**
Client ID: **TH1 @ 2'-W.S.-D.** Run ID: **FID(17A) 2_050609A** SeqNo: **370313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44.63	10	50	0	89.3	67.4	117	35.91	21.6	17.4	R
Surr: DNOP	5.644	0	5	0	113	74	125	5.23	7.61	0	

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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: *14-Jun-05*

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-8125** Batch ID: **8125** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 2:58:42 AM** Prep Date **6/9/2005**
Client ID: Run ID: **FID(17A) 2_050609A** SeqNo: **370297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46.49	10	50	0	0	67.4	117	0			

Sample ID **LCSD-8125** Batch ID: **8125** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 3:29:24 AM** Prep Date **6/9/2005**
Client ID: Run ID: **FID(17A) 2_050609A** SeqNo: **370298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52.19	10	50	0	0	67.4	117	46.49	11.5	17.4	

Sample ID **LCS-8120** Batch ID: **8120** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/10/2005 6:50:04 PM** Prep Date **6/8/2005**
Client ID: Run ID: **PIDFID_050610A** SeqNo: **370540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23.93	5	25	0	95.7	84	120	0			

Sample ID **GRO lcs 2.5ug** Batch ID: **8120** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **6/13/2005 10:40:36 AM** Prep Date
Client ID: Run ID: **PIDFID_050613A** SeqNo: **371197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.44	5	25	0	97.8	84	120	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

CLIENT: Blagg Engineering
Work Order: 0506066
Project: HARE GC B #1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs-8120** Batch ID: **8120** Test Code: **SW8260B** Units: **mg/Kg** Analysis Date **6/11/2005** Prep Date **6/8/2005**
Client ID: Run ID: **NEPTUNE_050609B** SeqNo: **371393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.045	0.05	1	0	104	79	133	0			
Toluene	1.122	0.05	1	0	112	74.3	124	0			
Chlorobenzene	1.14	0.05	1	0	114	81.3	126	0			
1,1-Dichloroethene	0.8778	0.05	1	0	87.8	71.3	144	0			
Trichloroethene (TCE)	1.014	0.05	1	0	101	70.2	124	0			

11/12

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: 6/7/2005

Work Order Number 0506066

Received by AT

Checklist completed by _____ Signature _____ Date 6/7/05

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? 1° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

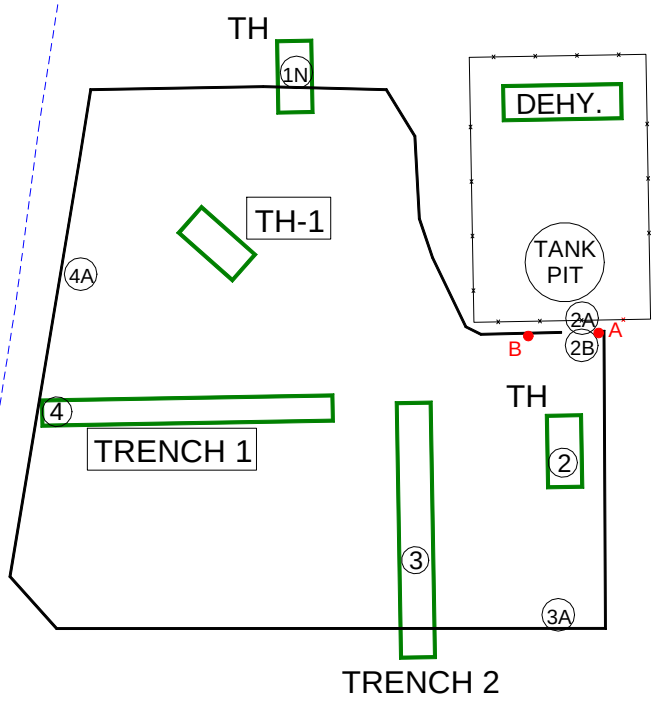
Hall Environmental Analysis Laboratory Date: *14-Jun-05*

CLIENT: Blagg Engineering
Project: HARE GC B #1
Lab Order: 0506066

CASE NARRATIVE

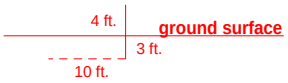
Analytical Comments for METHOD 8260_S, SAMPLE 0506066-01a: Low BFB recovery due to matrix interference.

POND AREA

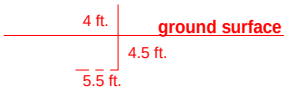


2 inch PVC casing (vertically) with slotted screen (horizontally). Wind turbines on each casing top.

A



B



SAMP. ID	OVM (ppm)	TIME	DATE
TH-1 @ 2'	749	1510	06/06/05
1N @ 3'	0.0	0909	08/09/05
2 @ 3.5'	2,050	0952	08/09/05
3 @ 3'	79.0	0925	08/09/05
4 @ 1.5'	26.2	0857	08/09/05
4A @ 2.5'	15.8	1154	08/11/05
2A @ 2'	1,734	0905	08/18/05
2B @ 6'	61.0	0901	08/18/05
3A @ 5'	0.0	0920	08/18/05

1,584 CUBIC YARDS TRANSPORTED TO JFJ LANDFARM FACILITY IN CROUCH MESA, NM.

SAMP. ID	TPH (ppm)	BENZENE (ppm)	TOT. BTEX (ppm)
4A @ 2.5'	28	NA	NA
2A @ 2'	231	ND	5.51
2B @ 6'	ND	ND	ND
3A @ 5'	ND	NA	NA

NOTES: OVM - Organic Vapor Meter or Photo-ionization Detector (PID).
TPH - Total Petroleum Hydrocarbon (USEPA Method 8015B).
BTEX - Benzene, toluene, ethylbenzene, & total xylenes (USEPA Method 8021B).
ppm - Parts per million or milligram per kilogram (mg/kg).

1 INCH = 25 FT.

0 25 50 FT.

WELL HEAD ⊕

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

XTO ENERGY INC.

HARE GC B #1

SW/4 NE/4 SEC. 23, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: SITE CLEAN-UP
FILENAME: HARE-GC-B1-SM1.SKF
DRAWN BY: NJV
REVISED: 9/13/05

SITE MAP

08/05

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
XTO Energy Inc. **2700 Farmington Ave., Bldg. K, Suite 1** **Farmington, NM 87401**	J.F.J. Landfarm c/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): HARE GC B #1 attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): G-23-29N-11W
4. Source and Description of Waste: ABANDONED PIT - SURFACE EQUIP. DISCHARGED FLUIDS	

I, **Nelson Velez**
Print Name
representative for :

Blagg Engineering, Inc. c/o XTO Energy Inc.
do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

X EXEMPT oilfield waste

___NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non –hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):
___MSDS Information
___RCRA Hazardous Waste Analysis
___Chain of Custody
___Other (description

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Nelson Vel

Title: **Staff Geologist / AGENT for XTO Energy**

Date: 8/10/05

Hall Environmental Analysis Laboratory

Date: *25-Aug-05*

CLIENT: Blagg Engineering
Client Sample ID: 4A@2.5'
Lab Order: 0508218
Collection Date: 8/11/2005 11:54:00 AM
Project: HARE GC B #1
Lab ID: 0508218-01
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/20/2005 4:09:17 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2005 4:09:17 PM
Surr: DNOP	104	60-124		%REC	1	8/20/2005 4:09:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	28	10		mg/Kg	2	8/25/2005 3:13:05 AM
Surr: BFB	107	83.1-124		%REC	2	8/25/2005 3:13:05 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

Hall Environmental Analysis Laboratory

Date: *01-Sep-05*

CLIENT: Blagg Engineering
Client Sample ID: 2A @ 2'
Lab Order: 0508244
Collection Date: 8/18/2005 9:05:00 AM
Project: HARE GC B #1
Lab ID: 0508244-01
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	21	10		mg/Kg	1	8/24/2005 5:14:56 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/24/2005 5:14:56 PM
Surr: DNOP	106	60-124		%REC	1	8/24/2005 5:14:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	210	25		mg/Kg	5	8/30/2005 12:21:53 PM
Surr: BFB	140	83.1-124	S	%REC	5	8/30/2005 12:21:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	8/30/2005 12:21:53 PM
Benzene	ND	0.13		mg/Kg	5	8/30/2005 12:21:53 PM
Toluene	ND	0.13		mg/Kg	5	8/30/2005 12:21:53 PM
Ethylbenzene	0.61	0.13		mg/Kg	5	8/30/2005 12:21:53 PM
Xylenes, Total	4.9	0.13		mg/Kg	5	8/30/2005 12:21:53 PM
Surr: 4-Bromofluorobenzene	111	87.5-115		%REC	5	8/30/2005 12:21:53 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *01-Sep-05*

CLIENT: Blagg Engineering
Client Sample ID: 2B @ 6'
Lab Order: 0508244
Collection Date: 8/18/2005 9:01:00 AM
Project: HARE GC B #1
Lab ID: 0508244-02
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/24/2005 7:27:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/24/2005 7:27:13 PM
Surr: DNOP	116	60-124		%REC	1	8/24/2005 7:27:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 12:53:10 PM
Surr: BFB	102	83.1-124		%REC	1	8/30/2005 12:53:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/30/2005 12:53:10 PM
Benzene	ND	0.025		mg/Kg	1	8/30/2005 12:53:10 PM
Toluene	ND	0.025		mg/Kg	1	8/30/2005 12:53:10 PM
Ethylbenzene	ND	0.025		mg/Kg	1	8/30/2005 12:53:10 PM
Xylenes, Total	ND	0.025		mg/Kg	1	8/30/2005 12:53:10 PM
Surr: 4-Bromofluorobenzene	100	87.5-115		%REC	1	8/30/2005 12:53:10 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *01-Sep-05*

CLIENT: Blagg Engineering
Lab Order: 0508244
Project: HARE GC B #1
Lab ID: 0508244-03

Client Sample ID: 3A @ 5'
Collection Date: 8/18/2005 9:20:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/24/2005 7:59:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/24/2005 7:59:59 PM
Surr: DNOP	105	60-124		%REC	1	8/24/2005 7:59:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 1:24:18 PM
Surr: BFB	100	83.1-124		%REC	1	8/30/2005 1:24:18 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:
NELAC ☐ USACE ☐
Other:

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

Client: BLAGG / XTO
Address: P.O. BOX 87
BLFD., NM 87413
Phone #: 505-632-1199
Fax #:

Project Name: HARE GC B #1
Project #:
Project Manager: NV
Sampler: NV
Sample Temperature: 30

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: cool	HEAL No.
8/11/05	1154	SOIL	(4A) @ 2.5' NV	1 - 4 oz.			✓	0508218

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
		✓														

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	Remarks:
8/18/05	0700	Nelson Velez	[signature] 8-18-05 @ 1625	
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:
NELAC ☐ USACE ☐
Other:

Client: BAGG / XTO ENERGY

Project Name: HARE GC B #1

Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Project #:

Project Manager: NV

Phone #: 632-1199

Sampler: NV

Fax #:

Sample Temperature: 6°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					$HgCl_2$	HNO_3	cool	
8/18/05	0905	SOIL	(2A) @ 2'	1-4oz.			✓	0508244-1
8/18/05	0901	SOIL	(2B) @ 6'	1-4oz.			✓	-2
8/18/05	0920	SOIL	(3A) @ 5'	1-4oz.			✓	-3

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
8/19/05	0700		8-19-05 @ 16:30
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

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

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
✓		✓														
✓		✓														
		✓														

Hall Environmental Analysis Laboratory

Date: *25-Aug-05*

CLIENT: Blagg Engineering
Work Order: 0508218
Project: HARE GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID **MB-8569** Batch ID: **8569** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/20/2005 12:52:22 PM** Prep Date **8/19/2005**
Client ID: Run ID: **FID(17A) 2_050820A** SeqNo: **390339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.67	0	10	0	107	60	124	0			

Sample ID **mb-8571** Batch ID: **8571** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/22/2005 6:42:39 PM** Prep Date **8/19/2005**
Client ID: Run ID: **PIDFID_050822A** SeqNo: **391043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	914.7	0	1000	0	91.5	83.1	124	0			

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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: *25-Aug-05*

CLIENT: Blagg Engineering
Work Order: 0508218
Project: HARE GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-8569**	Batch ID: **8569**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/20/2005 1:25:07 PM**	Prep Date **8/19/2005**
Client ID:		Run ID: **FID(17A) 2_050820A**		SeqNo: **390340**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46.25	10	50	0	92.5	67.4	117	0			

Sample ID **LCSD-8569**	Batch ID: **8569**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/20/2005 1:57:51 PM**	Prep Date **8/19/2005**
Client ID:		Run ID: **FID(17A) 2_050820A**		SeqNo: **390341**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47.07	10	50	0	94.1	67.4	117	46.25	1.74	17.4	

Sample ID **lcs-8571**	Batch ID: **8571**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/22/2005 7:45:44 PM**	Prep Date **8/19/2005**
Client ID:		Run ID: **PIDFID_050822A**		SeqNo: **391059**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.66	5	25	0	98.6	84	120	0			

Sample ID **GRO lcs 2.5ug**	Batch ID: **8571**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/23/2005 12:52:35 PM**	Prep Date
Client ID:		Run ID: **PIDFID_050823A**		SeqNo: **391457**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.13	5	25	0.0156	88.5	84	120	0			

Sample ID **GRO lcs 2.5ug**	Batch ID: **8571**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/24/2005 4:49:06 PM**	Prep Date
Client ID:		Run ID: **PIDFID_050824A**		SeqNo: **392009**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.35	5	25	0.0214	89.3	84	120	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: 8/18/2005

Work Order Number 0508218 | Received by GLS

Checklist completed by (Signature) 8-18-05 (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? 3° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments:

Corrective Action

Hall Environmental Analysis Laboratory

Date: *01-Sep-05*

CLIENT: Blagg Engineering
Work Order: 0508244
Project: HARE GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID **MB-8588** Batch ID: **8588** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/22/2005 7:15:23 PM** Prep Date **8/22/2005**
Client ID: Run ID: **FID(17A) 2_050822A** SeqNo: **390841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.01	0	10	0	100	60	124	0			

Sample ID **mb-8594** Batch ID: **8594** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/23/2005 6:41:01 PM** Prep Date **8/22/2005**
Client ID: Run ID: **PIDFID_050823A** SeqNo: **391443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	943.5	0	1000	0	94.4	83.1	124	0			

Sample ID **mb-8594** Batch ID: **8594** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/23/2005 6:41:01 PM** Prep Date **8/22/2005**
Client ID: Run ID: **PIDFID_050823A** SeqNo: **391292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1									
Benzene	ND	0.025									
Toluene	ND	0.025									
Ethylbenzene	ND	0.025									
Xylenes, Total	ND	0.025									
Surr: 4-Bromofluorobenzene	1.004	0	1	0	100	87.5	115	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: *01-Sep-05*

CLIENT: Blagg Engineering
Work Order: 0508244
Project: HARE GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-8588**	Batch ID: **8588**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/22/2005 7:48:08 PM**	Prep Date **8/22/2005**
Client ID:		Run ID: **FID(17A) 2_050822A**		SeqNo: **390842**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45.13	10	50	0	90.3	67.4	117	0			

Sample ID **LCSD-8588**	Batch ID: **8588**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/22/2005 8:19:22 PM**	Prep Date **8/22/2005**
Client ID:		Run ID: **FID(17A) 2_050822A**		SeqNo: **390843**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42.95	10	50	0	85.9	67.4	117	45.13	4.96	17.4	

Sample ID **lcs-8594**	Batch ID: **8594**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/23/2005 7:12:34 PM**	Prep Date **8/22/2005**
Client ID:		Run ID: **PIDFID_050823A**		SeqNo: **391444**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23.22	5	25	0	92.9	84	120	0			

Sample ID **GRO lcs 2.5ug**	Batch ID: **8594**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/24/2005 4:49:06 PM**	Prep Date
Client ID:		Run ID: **PIDFID_050824A**		SeqNo: **392007**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.35	5	25	0.0214	89.3	84	120	0			

Sample ID **GRO lcs 2.5ug**	Batch ID: **8594**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **8/26/2005 4:48:50 PM**	Prep Date
Client ID:		Run ID: **PIDFID_050826A**		SeqNo: **392953**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.96	5	25	0.0126	91.8	84	120	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

CLIENT: Blagg Engineering
Work Order: 0508244
Project: HARE GC B #1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **GRO lcs 2.5ug** Batch ID: **8594** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/30/2005 9:48:26 PM** Prep Date
Client ID: Run ID: **PIDFID_050830A** SeqNo: **393956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.97	5	25	0	99.9	84	120	0			

Sample ID **lcs-8594** Batch ID: **8594** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/23/2005 7:12:34 PM** Prep Date **8/22/2005**
Client ID: Run ID: **PIDFID_050823A** SeqNo: **391296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.116	0.1	2	0	106	65	132	0			
Benzene	0.4416	0.025	0.42	0	105	85.6	116	0			
Toluene	2.084	0.025	2	0	104	82.4	120	0			
Ethylbenzene	0.4274	0.025	0.41	0	104	86.4	111	0			
Xylenes, Total	2.155	0.025	2	0	108	78.4	125	0			

Sample ID **BTEX lcs 100ng** Batch ID: **8594** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/24/2005 6:24:58 PM** Prep Date
Client ID: Run ID: **PIDFID_050824A** SeqNo: **391969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.014	0.1	1	0	101	65	132	0			
Benzene	1.043	0.025	1	0	104	85.6	116	0			
Toluene	1.009	0.025	1	0	101	82.4	120	0			
Ethylbenzene	1.016	0.025	1	0	102	86.4	111	0			
Xylenes, Total	2.058	0.025	2	0	103	78.4	125	0			

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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: 0508244
Project: HARE GC B #1

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **BTEX lcs 100ng** Batch ID: **8594** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/26/2005 3:44:06 PM** Prep Date
Client ID: Run ID: **PIDFID_050826A** SeqNo: **392876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.067	0.1	1	0	107	65	132	0			
Benzene	1.047	0.025	1	0	105	85.6	116	0			
Toluene	1.013	0.025	1	0	101	82.4	120	0			
Ethylbenzene	1.005	0.025	1	0	100	86.4	111	0			
Xylenes, Total	2.049	0.025	2	0	102	78.4	125	0			

Sample ID **BTEX lcs 100ng** Batch ID: **8594** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/31/2005 12:53:47 AM** Prep Date
Client ID: Run ID: **PIDFID_050830A** SeqNo: **393856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.8808	0.1	1	0	88.1	65	132	0			
Benzene	1.045	0.025	1	0	105	85.6	116	0			
Toluene	0.988	0.025	1	0	98.8	82.4	120	0			
Ethylbenzene	0.9957	0.025	1	0	99.6	86.4	111	0			
Xylenes, Total	2.026	0.025	2	0	101	78.4	125	0			

7 / 8

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: 8/19/2005

Work Order Number 0508244 | Received by AT

Checklist completed by _____ Signature | 8/19/05 Date

Matrix | Carrier name Greyhound

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

Container/Temp Blank temperature? 6° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

OK B0292

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos 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

TPH water cleared

DEPUTY OIL & GAS INSPECTOR
DEC 15 1995

PIT REMEDIATION AND CLOSURE REPORT

Hydrocarbon - based soil remediation

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name HARE GC B 1

Location: Unit or Qtr/Qtr Sec G Sec 23 T 29N R 11 W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other PROD. TANK

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 135', width 100', depth 4-8'
Reference: wellhead X, other ___
Footage from reference: 135
Direction from reference: 0 Degrees ___ East North ___ of ___ West South X

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

RECEIVED
JUN 12 1995
OIL CON. DIV.
DIST. 3

B0242

Date Remediation Started: 5-25-95 **Date Completed:** 5-31-95

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 2000

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite X Offsite X MOVED TO ARBURY WOODS PRIVATE PROPERTY • UNIT E, SEC 23 (~ 1/2 MILE NE OF AMERADA GAS #1) T 29N R 11 W

General Description Of Remedial Action: Excavation

Ground Water Encountered: No ___ Yes X **Depth** 7'

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 7'

Sample date 5-31-95 Sample time 1550 (S/ZS) WATER

Sample Results

Benzene (~~ppm~~) ND WATER

Total BTEX (~~ppm~~) 5.96 PPB

Field headspace (ppm) 1

TPH ___

Ground Water Sample: Yes X 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 5-31-95

SIGNATURE B J Shaw PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

RESULTS TO BOB McCOY - 5-30-95 REO

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: B0292 C.O.C. NO:

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: HARE GC WELL #: B1 PIT: PROD. TANK
QUAD/UNIT: G SEC: 23 TWP: 29N RNG: 11W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR: PAUL

DATE STARTED: 5-25-95
DATE FINISHED: 5-31-95
ENVIRONMENTAL SPECIALIST: REO

EXCAVATION APPROX. 135' FT. x 100' FT. x 4'-8' FT. DEEP. CUBIC YARDS: 2000
DISPOSAL FACILITY: ONSITE REMEDIATION METHOD: STOCKPILE
LAND USE: RESIDENTIAL AREA LEASE: — FORMATION: DAKOTA

FIELD NOTES & REMARKS: ORIGINAL PIT LOCATED APPROXIMATELY 135 FEET SOUTH FROM WELLHEAD.
DEPTH TO GROUNDWATER: 7' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 70' NORTH
NMOCD RANKING SCORE: 40 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: STEEL PIT TO BE RE-INSTALLED

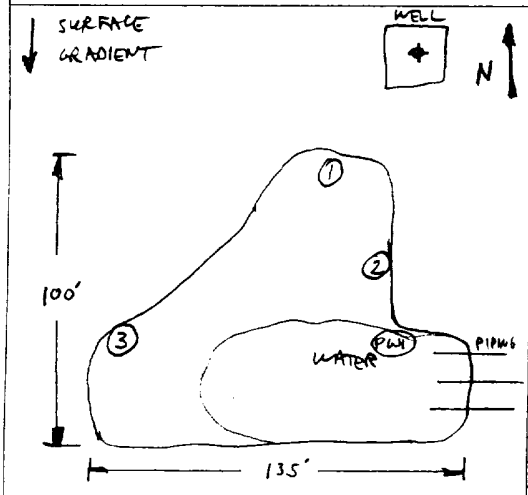
PIT EXCAVATED TO GROUNDWATER - CONTAMINATED/STAINED SOILS REMOVED.
SOIL IS MOIST, BROWN, SILTY-CLAYEY SAND. HEAVY CLAY NEAR WATER TABLE.
SOME AREAS OF GRAY STAINING IN CLAYS - NO ODOR.

FIELD 418.1 CALCULATIONS

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

SCALE
0 25 50 FT

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS - 5'	1
2 ES - 5'	1
3 WS - 4'	1
4	
5	

LAB SAMPLES	
PWLEGW (7')	BTEX (PASSED)

PIT PROFILE

TRAVEL NOTES: CALLOUT: ONSITE: 5-25-95
5-31-95

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Blagg Engineering, Inc.

Project ID:	Hare GC B 1	Report Date:	05/26/95
Sample ID:	PW 1 @ GW (7')	Date Sampled:	05/25/95
Lab ID:	1046	Date Received:	05/25/95
Sample Matrix:	Water	Date Analyzed:	05/26/95
Preservative:	Cool, $HgCl_2$		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	0.98	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	3.06	0.40
o-Xylene	1.63	0.20

Total BTEX	**5.96**

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	100	88 - 110%
Bromofluorobenzene	91	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review