

3RP-111



Annual Groundwater Remediation
Reports

Volume 1

January 2007



RECEIVED

MAR 05 2007

March 2, 2007

Oil Conservation Division
Environmental Bureau

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

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten,

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

- | | | | |
|------------------------|--------|--------------------------|--------|
| • Baca Gas Com A #1A | 3R0104 | • Masden Gas Com #1E | 3R0120 |
| • Bruington Gas Com #1 | 3R0106 | • McDaniel Gas Com B #1E | 3R0121 |
| • Carson Gas Com #1E | 3R415 | • OH Randel #7 | 3R0386 |
| • EJ Johnson C #1E | 3R0385 | • PO Pipken #3E | 3R409 |
| • Federal Gas Com #H1 | 3R0110 | • Romero Gas Com A #1 | 3R0123 |
| • Frost, Jack B #2 | 3R416 | • Rowland Gas Com #1 | 3R124 |
| • Garcia Gas Com B #1 | 3R0111 | • Snyder Gas Com #1A | 3R0126 |
| • Haney Gas Com B #1E | 3R0113 | • Stedje Gas Com #1 | 3R0128 |
| • Hare Gas Com B #1 | 3R413 | • Sullivan Frame A #1A | |
| • Hare Gas Com B #1E | 3R0384 | • Sullivan Gas Com D #1 | 3R0131 |
| • Hare Gas Com I #1 | 3R412 | • Valdez A #1E | 3R0134 |

We have also enclosed an Annual Report for one site that meets the closure requirements outlined in the GMP. XTO respectfully requests closure of:

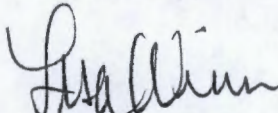
- Abrams J #1 3R0100

In previously submitted reports three sites met the closure requirements outlined in the GMP and XTO requested closure on those sites in January 2006. Per your request reports for the below listed sites are being submitted again.

- Armenta Gas Com #1E 320394
- Bergin Gas Com #1E 320105
- State Gas Com BS #1 320127

Thank you for your review of the reports. XTO looks forward to hearing from you regarding closure requests and proposed remediation actions. If you have any questions please do not hesitate to contact me at (505) 566-7942.

Respectfully,



Lisa Winn
Environmental Coordinator
San Juan Division

cc: Mr. Brandon Powell, Environmental, NMOCD District III Office, Aztec, NM
Mr. Martin Nee, Lodestar Services Inc.
File- San Juan Groundwater

GARCIA GC B #1

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2006

**GARCIA GC B #1
(J) SECTION 21 – T29N – R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

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

January 2007

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Table 1:	Summary Groundwater Laboratory Results
Figure 1:	Site Diagram
Figures 2 – 3:	Potentiometric Surface Diagrams
Attachment 1:	2006 Laboratory Reports

2006 XTO GROUNDWATER REPORT

GARCIA GAS COM B #1

SITE DETAILS

Legals - Twn: 29N
NMOCD Hazard Ranking: 30

Rng: 10W

Sec: 21
Land Type: FEE

Unit: H

PREVIOUS ACTIVITIES

Excavation: Aug-93

Monitor Wells: Oct-Nov-99

Sampling Initiated: Nov-99

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

Laboratory analytical results for the groundwater monitoring wells is presented as Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2006 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected during site monitoring activities indicated a groundwater gradient that trends towards the northeast. Figures 2–3 illustrate the estimated groundwater gradients for August 2006 and November 2006, respectively.

2006 ACTIVITIES

Annual Groundwater Remediation Report- XTO Energy Inc. (XTO) submitted the 2005 annual groundwater report to New Mexico Oil Conservation Division (NMOCD) in January 2006, proposing to terminate quarterly sampling of groundwater monitor wells MW-1 and MW-3. Continued sampling of MW-2 was proposed on a quarterly schedule, in accordance with the NMOCD approved Groundwater Management Plan, until four consecutive quarters are obtained below New Mexico Water Quality Control Commission (NMWQCC) standards.

Groundwater Monitoring – Quarterly groundwater samples were collected from MW-2 in 2006 and submitted for laboratory analysis of benzene, toluene, ethyl benzene and total xylenes (BTEX). Laboratory results indicate BTEX constituents are below standards or not detectable for four quarters with the exception of total xylenes during the spring sample event. The groundwater sample collected May 24, 2006 resulted in the concentration of total xylenes slightly above standards (690 ug/L with a closure limit of 620 ug/L). Quarterly groundwater samples will continue in 2007 until four consecutive quarters are below standards for BTEX.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No Bore/Test Hole Reports to present.

DISPOSITION OF GENERATED WASTES

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

2006 XTO GROUNDWATER REPORT

CONCLUSIONS

January 1998 XTO acquired the Garcia Gas Com B #1 from Amoco Production Company. XTO understands the initial evaluation of groundwater impact came from samples of groundwater collected from the bottom of the earthen blow pit following excavation of hydrocarbon impacted soil. Laboratory analysis of the initial samples indicated elevated levels of dissolved phase BTEX constituents in groundwater. In 1999 three groundwater monitor wells were installed to delineate the extent of hydrocarbon impact to groundwater. Monitor well numbered MW-2 was installed near the center of the source area (closed and backfilled earthen blow pit). Monitoring well numbered MW-1 was placed down gradient of MW-2 and MW-3 was placed up gradient of MW-2. BTEX constituents were not detected above the laboratory equipment detection limits (0.2 ug/L) in MW-1 or MW-3. Termination of sampling was proposed in 2006 for these two monitor wells.

Groundwater samples from MW-2 were submitted quarterly for laboratory analysis in 2006. Laboratory reports indicate groundwater is below closure standards for benzene, toluene, and ethyl-benzene and a slightly elevated level of total xylenes during the third quarter.

RECOMMENDATIONS

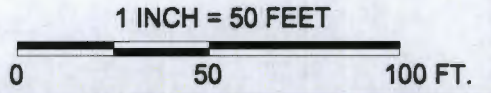
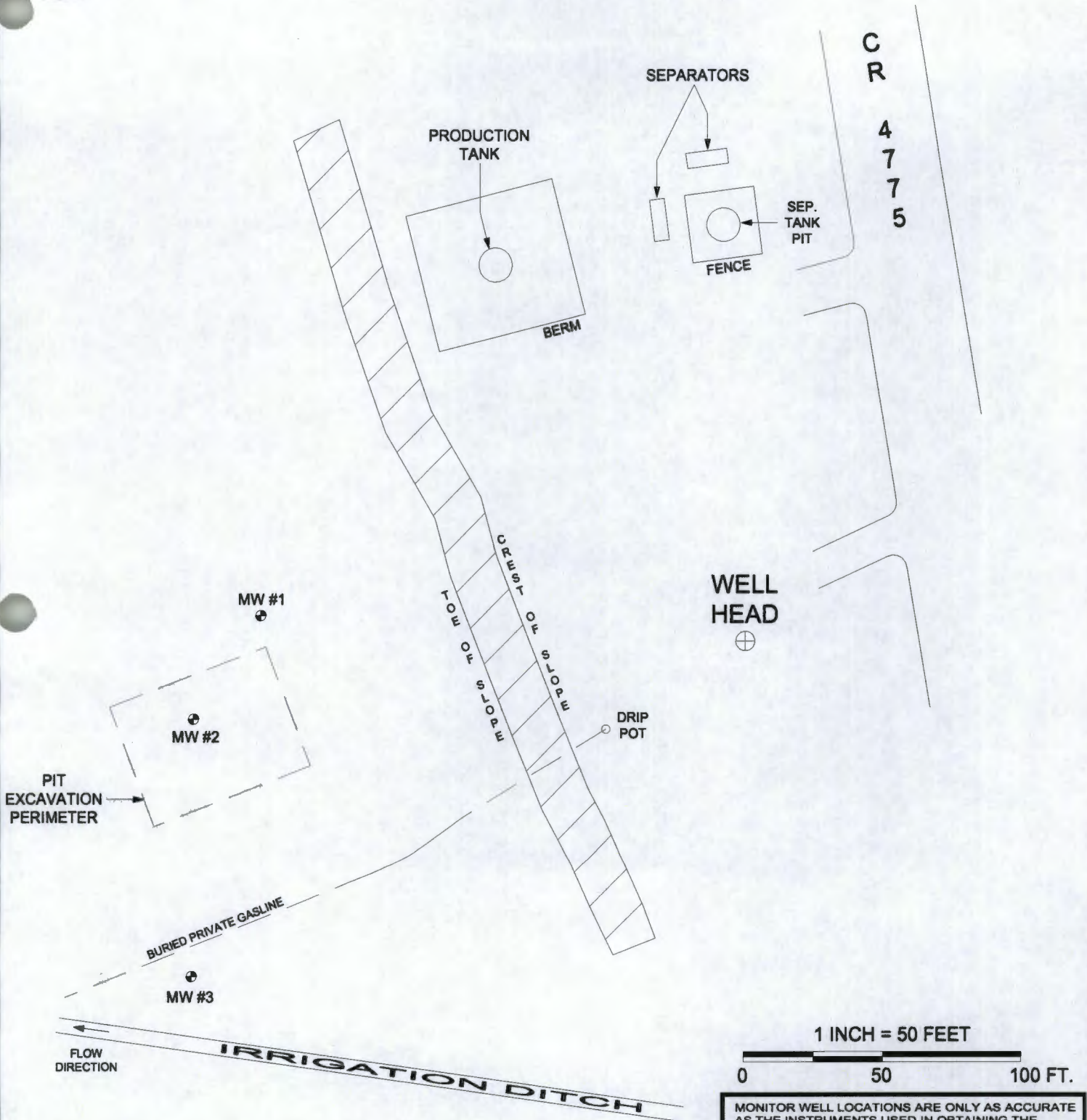
- Quarterly sampling will continue at MW-2 until analytical results show the dissolved phase BTEX constituents are below New Mexico groundwater standards for four (4) consecutive quarters.
- Following OCD approval for closure, all monitor well locations will be abandoned in accordance with the monitoring well abandonment plan.

**TABLE 1
XTO ENERGY INC. GROUNDWATER LAB RESULTS**

**GARCIA GC B #1- BLOW PIT
UNIT J, SEC. 21, T29N, R10W**

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
26-Aug-93	Initial Sample @ 30'				39.1	385	13.2	733
07-Sep-93	Pit Sample				8.2	154	9.1	360
18-Nov-99	MW #1	31.06	37.00		64.9	46.8	36.7	302.2
14-Mar-00		32.97			1.3	ND	46	303.4
05-Jun-00		29.92			1.5	ND	33	242.4
30-Aug-00		29.24			ND	ND	32	191.1
19-Mar-01		32.86			ND	ND	39	212.6
18-Nov-99	MW #2	27.98	35.00		449	104	369	1454
14-Mar-00		29.83			ND	ND	70	3800
05-Jun-00		26.6			4.9	14	65	5,405.8
16-May-01		28.64			2.2	ND	47	2,901.3
24-Sep-01		26.82			ND	13	45	3,202.3
25-Jun-02		25.11			ND	7.9	14	460
27-Aug-02		25.73			ND	ND	15	420
09-Dec-02		28.45			ND	8.3	29	1,103.4
27-Jun-03		25.75			ND	ND	ND	330
25-Aug-03		25.34			ND	3.4	6.9	110
19-Nov-03		27.68			ND	ND	17	300
30-Mar-04		29.50			ND	ND	28	640
25-Feb-06		29.08			ND	ND	ND	340
24-May-06					ND	19	ND	690
31-Aug-06		25.34	33.10		2.3	ND	2	110
28-Nov-06		27.52	33.43		ND	2.1	4.8	190
18-Nov-99	MW #3	27.07	38.00		25.8	65.6	158	799
14-Mar-00		28.86			ND	ND	ND	ND
05-Jun-00		25.39			ND	ND	ND	ND
19-Mar-01		28.74			ND	ND	ND	ND
16-May-01		27.49			ND	ND	ND	ND
24-Sep-01		25.77			ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

FIGURE 1



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

XTO ENERGY INC.
GARCIA GC B # 1
 NW/4 SE/4 SEC. 21, T29N, R10W
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
 CONSULTING PETROLEUM / RECLAMATION SERVICES
 P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413
 PHONE: (505) 632-1189

PROJECT: MW SAMPLING
 DRAWN BY: NJV
 FILENAME: 06-05-00-SM.SKF
 REVISED: 11/10/05 NJV

SITE MAP
 06/00



TOE OF SLOPE

MW-1
TOC = 89.38
GWEL = 63.92

PIT
EXCAVATION
PERIMETER

Flow = 0.002

MW-2
TOC = 89.38
GWEL = 64.04

64.0

BURIED PRIVATE GASLINE

64.1

MW-3
TOC = 88.46
GWEL = 64.12

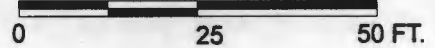
FLOW
DIRECTION

IRRIGATION DITCH

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

1 INCH = 25 FEET



Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

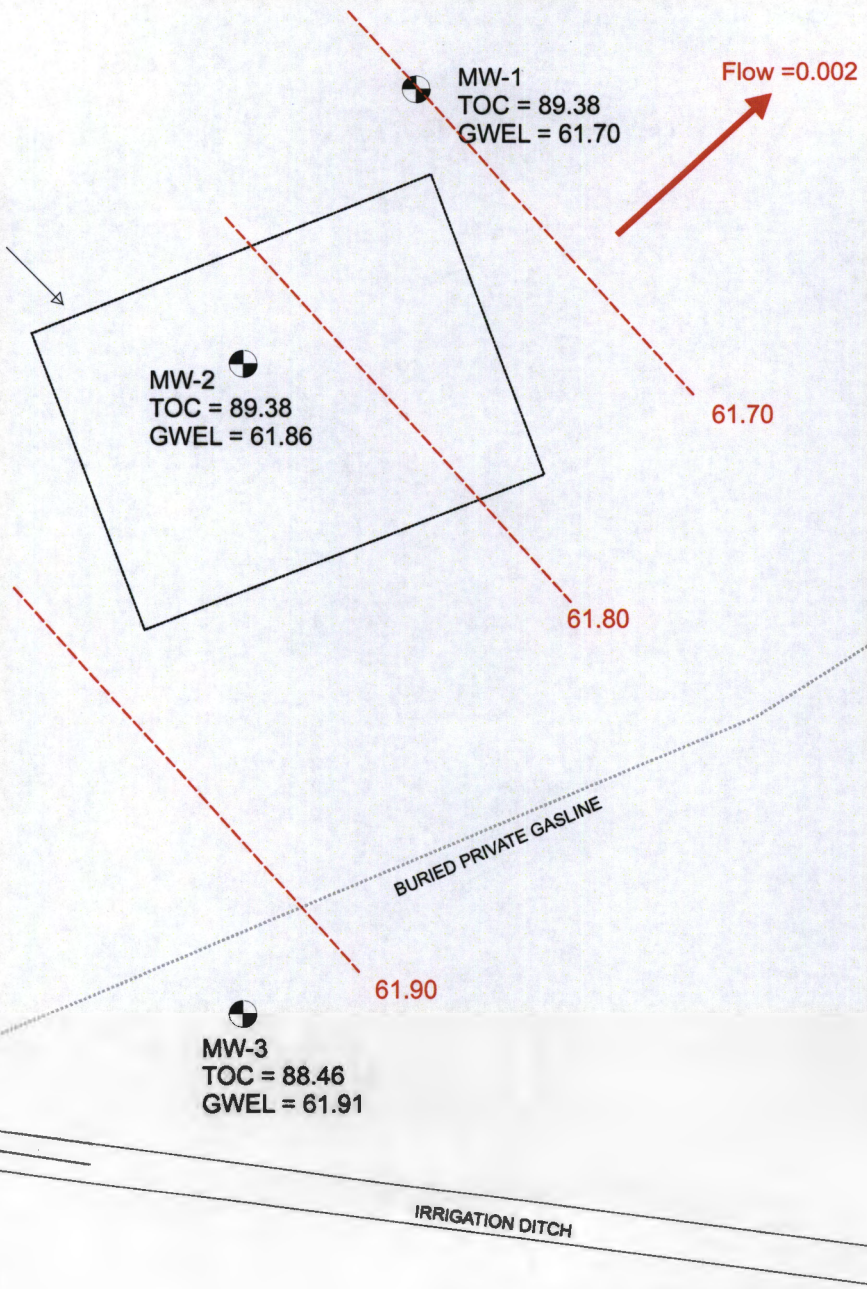
GARCIA GAS COM B #1
NW/4 SE/4 SEC. 21, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 12/04/06

FIGURE 2
GROUNDWATER
ELEVATIONS
08/31/2006

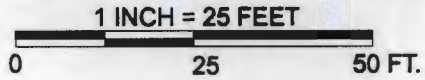


PIT EXCAVATION PERIMETER



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



<p>Lodestar Services, Inc PO Box 3861 Farmington, NM 87499</p>	<p>GARCIA GAS COM B #1 NW/4 SE/4 SEC. 21, T29N, R10W SAN JUAN COUNTY, NEW MEXICO</p>	<p>PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/04/06</p>	<p>FIGURE 3 GROUNDWATER ELEVATIONS 11/28/2006</p>
--	--	--	--

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Blagg Engineering
Lab Order: 0602252
Project: Garcia GC B # 1
Lab ID: 0602252-01

Client Sample ID: MW #2
Collection Date: 2/25/2006 11:30:00 AM
Date Received: 2/27/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						
Benzene	ND	10		µg/L	10	3/7/2006
Toluene	ND	10		µg/L	10	3/7/2006
Ethylbenzene	ND	10		µg/L	10	3/7/2006
Xylenes, Total	340	10		µg/L	10	3/7/2006
Surr. 4-Bromofluorobenzene	98.5	71.2-123		%REC	10	3/7/2006

Analyst: KTM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: Blagg Engineering
 Work Order: 0602252
 Project: Garcia GC B # 1

TestCode: 8260_SL_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_SL_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 100mg lcs	SampType: LCS	TestCode: 8260_SL_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.19	1.0	20	0	95.9	80	130				
Toluene	18.39	1.0	20	0	91.9	77	121				

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

2/27/2006

Work Order Number **0602252**

Received by **LMM**

Checklist completed by *Lee Heleked*
Signature

2/27/06
Date

Matrix

Carrier name Greyhound

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: BAGG ENER / XTO ENERGY

Address: P.O. BOX 87

BFD, NM 87413

Phone #: 632-1199

Fax #:

GA/QC Package:
 Std Level 4

Other:

Project Name:

GARCIA GC 8 #1

Project #:

NV

Project Manager:

NV

Sampler:

NV

Sample Temperature:

4°

Number/Volume

2-40ml

HEAL No.

0602252

-1

Matrix

mw #2

Date

2/25/06

Time

1130

Preservative

HgCl₂

HNO₃

Relinquished By: (Signature) [Signature]

1550

Time:

Date: 2/27/06

Received By: (Signature) [Signature]

2/27/06

Time:

Date:

ANALYSIS REQUEST

TPH Method 8015B (Gas/Diesel)

BTEX + MTBE + TPH (Gasoline Only)

(BTEX + MTBE + TMB² (B021B))

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

B310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)

B081 Pesticides / PCB's (B082)

B260B (VOA)

B270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

Hall Environmental Analysis Laboratory

Date: 02-Jun-06

CLIENT: Blagg Engineering
Lab Order: 0605285
Project: Garcia GC B # 1
Lab ID: 0605285-01

Client Sample ID: MW #2
Collection Date: 5/24/2006 1:55:00 PM
Date Received: 5/25/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	10		µg/L	10	6/1/2006 10:49:13 PM
Toluene	19	10		µg/L	10	6/1/2006 10:49:13 PM
Ethylbenzene	ND	10		µg/L	10	6/1/2006 10:49:13 PM
Xylenes, Total	690	30		µg/L	10	6/1/2006 10:49:13 PM
Surr: 4-Bromofluorobenzene	120	85-115	S	%REC	10	6/1/2006 10:49:13 PM

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Garcia GC B # 1

Work Order: 0605285

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB									
Batch ID: R19467									
Analysis Date: 6/1/2006									
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									
Analysis Date: 8/1/2006									
Benzene	24.40	µg/L	1.0	122	85	115			S
Toluene	22.98	µg/L	1.0	115	85	118			
Ethylbenzene	22.99	µg/L	1.0	115	85	116			
Xylenes, Total	71.00	µg/L	3.0	118	85	119			
Sample ID: 100NG BTEX LCSD									
Analysis Date: 6/1/2006									
Benzene	22.07	µg/L	1.0	110	85	115	10.0	27	
Toluene	20.49	µg/L	1.0	102	85	118	11.5	19	
Ethylbenzene	20.90	µg/L	1.0	105	85	116	9.52	10	
Xylenes, Total	64.78	µg/L	3.0	108	85	119	8.16	13	

Errors:

- 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 Spik ⁻ very outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

5/25/2006

Work Order Number **0605285**

Received by **LMM**

Checklist completed by *Lise Helms* *5/25/06*
Signature | Date

Matrix _____ Carrier name **Greyhound**

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

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

COMMENTS:

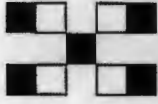
Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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



CHAIN-OF-CUSTODY RECORD

Client: BAE & ENR / XTO ENERGY

Address: P.O. BOX 87

BLFD. NM 87413

Phone #: 632-1199

Fax #:

QA/QC Package:
 Std Level 4

Other:

Project Name:

GARCIA GC B #1

Project #:

NV

Project Manager:

NV

Sampler:

NV

Sample Temperature:

50

Date

5/24/06

Time

1355

Matrix

water

Sample I.D. No.

MW #2

Number/Volume

2-40 ml

Preservative

HgCl₂ HNO₃

HEAL No.

2605225

Date:

5/25/06

Time:

0610

Relinquished By: (Signature)

[Signature]

Date:

Received By: (Signature)

[Signature] 1603

Received By: (Signature)

[Signature]

ANALYSIS REQUEST

BTEX + MTBE + TPB (Gasoline Only)
 BTEX + MTBE + TPB (80218)
 TPH Method 8015B (Gas/Diesel)
 TPH (Method 418.1)
 EDB (Method 504.1)
 EDC (Method 8021)
 B310 (PNA or PAH)
 PCRA 8 Metals
 Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)
 B081 Pesticides / PCB's (8082)
 B2608 (VDA)
 B270 (Semi-VDA)
 Air Bubbles or Headspace (Y or N)

Remarks:

Hall Environmental Analysis Laboratory, Inc.

Date: 11-Sep-06

CLIENT: XTO Energy
Project: Ground water

Lab Order: 0609025

Lab ID: 0609025-01

Collection Date: 8/31/2006 7:35:00 AM

Client Sample ID: Garcia Gas Com B1 MW-2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	2.3	1.0		µg/L	1	9/9/2006 2:38:58 PM
Toluene	ND	1.0		µg/L	1	9/9/2006 2:38:58 PM
Ethylbenzene	2.0	1.0		µg/L	1	9/9/2006 2:38:58 PM
Xylenes, Total	110	3.0		µg/L	1	9/9/2006 2:38:58 PM
Surr: 4-Bromofluorobenzene	96.5	72.2-125		%REC	1	9/9/2006 2:38:58 PM

Lab ID: 0609025-02

Collection Date: 8/31/2006 7:00:00 AM

Client Sample ID: 310806TB01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/9/2006 3:08:00 PM
Toluene	ND	1.0		µg/L	1	9/9/2006 3:08:00 PM
Ethylbenzene	ND	1.0		µg/L	1	9/9/2006 3:08:00 PM
Xylenes, Total	ND	3.0		µg/L	1	9/9/2006 3:08:00 PM
Surr: 4-Bromofluorobenzene	114	72.2-125		%REC	1	9/9/2006 3:08:00 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Ground water

Work Order: 0609025

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Quai
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Method: SW8021

Sample ID: 5ML RB-II

MBLK

Batch ID: R20623 Analysis Date: 9/9/2006 11:16:28 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-II

LCS

Batch ID: R20623 Analysis Date: 9/9/2006 11:45:28 AM

Benzene	21.27	µg/L	1.0	106	85	115			
Toluene	19.28	µg/L	1.0	96.4	85	118			
Ethylbenzene	20.93	µg/L	1.0	105	85	116			
Xylenes, Total	56.71	µg/L	3.0	94.5	85	119			

Sample ID: 100NG BTEX LCSD-I

LCSD

Batch ID: R20623 Analysis Date: 9/9/2006 12:14:18 PM

Benzene	21.25	µg/L	1.0	106	85	115	0.0847	27	
Toluene	19.44	µg/L	1.0	97.2	85	118	0.827	19	
Ethylbenzene	19.92	µg/L	1.0	99.6	85	116	4.95	10	
Xylenes, Total	58.07	µg/L	3.0	96.8	85	119	2.38	13	

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 ⁶⁻¹¹ Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date and Time Received:

9/1/2006

Work Order Number 0609025

Received by AMF

Checklist completed by

[Signature]
Signature

9/1/06
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 _____

CHAIN-OF-CUSTODY RECORD

Client: XTD Energy
Kim Champlin

Address: 2700 Farmington Ave
Bldg K, Ste
Farmington, NM

Phone #: 505-566-7954

Fax #:

QA/QC Package:
Std Level 4

Other:
Project Name: Ground Water
Project #:
Project Manager: Lisa Winn
Sampler: ALA
Sample Temperature: 3°C

ANALYSIS REQUEST

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

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃ HCl	
08-31-06	0735	GW	Garcia Gas Com	B1 MIU-2		<input checked="" type="checkbox"/>	0609025-1
08-31-06	0700	water	310806TBO1			<input checked="" type="checkbox"/>	-2

Relinquished By: (Signature) Wesley L. Ross
Date: 09-01-06 Time: 0900

Received By: (Signature) [Signature]
Date: 9/1/06 Time: 06:25

Relinquished By: (Signature)
Date: Time:

Received By: (Signature)
Date: Time:

Remarks:

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Dec-06

CLIENT: XTO Energy Lab Order: 0611364
 Project: Ground Water

Lab ID: 0611364-04 Collection Date: 11/28/2006 8:50:00 AM
 Client Sample ID: Garcia 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	11/30/2006 4:27:26 PM
Toluene	2.1	1.0		µg/L	1	11/30/2006 4:27:26 PM
Ethylbenzene	4.8	1.0		µg/L	1	11/30/2006 4:27:26 PM
Xylenes, Total	190	3.0		µg/L	1	11/30/2006 4:27:26 PM
Surr: 4-Bromofluorobenzene	84.3	70.2-105		%REC	1	11/30/2006 4:27:26 PM

Lab ID: 0611364-05 Collection Date: 11/28/2006 10:10:00 AM
 Client Sample ID: ~~Baca Gas Com A1A 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	11/30/2006 4:57:29 PM
Toluene	ND	1.0		µg/L	1	11/30/2006 4:57:29 PM
Ethylbenzene	ND	1.0		µg/L	1	11/30/2006 4:57:29 PM
Xylenes, Total	ND	3.0		µg/L	1	11/30/2006 4:57:29 PM
Surr: 4-Bromofluorobenzene	81.8	70.2-105		%REC	1	11/30/2006 4:57:29 PM

Lab ID: 0611364-06 Collection Date: 11/28/2006 10:06:00 AM
 Client Sample ID: ~~Baca Gas Com A1A 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	11/30/2006 5:27:26 PM
Toluene	ND	1.0		µg/L	1	11/30/2006 5:27:26 PM
Ethylbenzene	ND	1.0		µg/L	1	11/30/2006 5:27:26 PM
Xylenes, Total	ND	3.0		µg/L	1	11/30/2006 5:27:26 PM
Surr: 4-Bromofluorobenzene	81.9	70.2-105		%REC	1	11/30/2006 5:27:26 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

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Ground Water

Work Order: 0611364

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 5ML RB

MBLK

Batch ID: R21633 Analysis Date: 11/30/2006 8:50:27 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: 125NG BTEX CCV-B

LCS

Batch ID: R21633 Analysis Date: 12/1/2006 8:28:43 AM

Benzene	24.67	µg/L	1.0	98.7	85.9	113			
Toluene	24.24	µg/L	1.0	97.0	86.4	113			
Ethylbenzene	23.65	µg/L	1.0	94.6	83.5	118			
Xylenes, Total	71.15	µg/L	3.0	94.9	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.

Sample Receipt Checklist

Client Name XTO ENERGY

Date and Time Received:

11/30/06

Work Order Number 0611364

Received by GLS

Checklist completed by [Signature] 11/30/06
Signature Date

Matrix Carrier name Greyhound

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

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: XTO Energy
Kim Champlin
 Address: 2700 Farmington Ave
Bldg 1, Stek
Farmington, NM
 Phone #: 505 566 7954
 Fax #:

QA/QC Package:
 Std Level 4

Other:
 Project Name:
Ground Water

Project #:

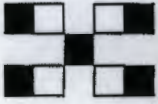
Project Manager:
Lisa Winn

Sampler: Ashley Azger 20
 Sample Temperature:

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative	HEAL No.
11-27-06	1502	GW	Masden Gas Com IE MW-3	1E MW-3	✓	-1
11-27-06	1430	GW	Masden Gas Com IE MW-2	1E MW-2	✓	2
11-27-06	1426	GW	Masden Gas Com IE MW-1	1E MW-1	✓	3
11-28-06	0850	GW	Garcia Gas Com BI MW-2	MW-2	✓	4
11-28-06	1010	GW	Bara Gas Com A1A MW-3	MW-3	✓	5
11-28-06	1006	GW	Bara Gas Com A1A MW-2	MW-2	✓	6
11-28-06	1055	GW	Bara Gas Com A1A MW-1	MW-1	✓	7
11-28-06	1049	GW	Bara Gas Com A1A MW-4	MW-4	✓	8

Date: 11-29-06 1300
 Date: 11-29-06 10:10
 Relinquished By: (Signature) Ashley Azger
 Relinquished By: (Signature)
 Received By: (Signature) S. Schuppe
 Received By: (Signature)
 Date: 1/30/06
 Time: 10:10

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 (B021)	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)	8021B BTEX	Air Bubbles or Headspace (Y or N)

Remarks:
Please copy results to
ala@lodestarterservices.com