

*District I,^a
1625 N French Dr, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

API # 30-045-09734

OPERATOR ☐ Initial Report ☒ Final Report

Name of Company XTO Energy Inc.	Contact Kim Champlin
Address #382 County Road 3100, Aztec, NM 87410	Telephone No. (505) 333-3100
Facility Name Schumacher, John #1	Facility Type Gas Well

Surface Owner BLM	Mineral Owner BLM	Lease No. NM-0498
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	08	30N	12W	1650	North	1650	East	San Juan

Latitude 36.82981 Longitude 108.11724

NATURE OF RELEASE

Type of Release Produced Water and Condensate	Volume of Release Approx 87 bbl	Volume Recovered N/A
Source of Release load valve on a production tank	Date and Hour of Occurrence 02/01/06, time unknown	Date and Hour of Discovery 02/01/06 at 1:40 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Called Charlie Perrin and Denny Foust at 3:55 pm on 02/01/06 and Roger Herrera and Sherry Landon with the BLM at 4:05 on 02/01/06	
By Whom? Lisa Winn	Date and Hour 02/01/06 at 3:55 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse RCVD APR 21 '08 OIL CONS. DIV.	

If a Watercourse was Impacted, Describe Fully *

DIST. 3

Describe Cause of Problem and Remedial Action Taken * ☐ A leak in a load valve on a 400-bbl production tank was discovered at approximately 1:40 pm. The liquids in the tank drained into the containment and did not run off the well pad. From tank gauging records, we have estimated approximately 52 bbl of produced water and 36 bbl of condensate was discharged from the tank. The valve is suspected to have frozen during the night or early morning hours causing the crack to occur on one side of the valve. Remedial Action: Impacted soil was removed and landfarmed on site.

Describe Area Affected and Cleanup Action Taken * ☒ The ground beneath the tank and valve was impacted by the produced water and condensate discharged from the tank. The contents remaining within the tank were off loaded, the tank was pulled and the impacted ground was excavated. Fresh dirt was brought in and the tank was reset, a new valve was installed. Contaminated soil was landfarmed onsite and sampled by Blagg Engineering. Documentation of spill and analytical results are attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations

Signature <i>Kim Champlin</i>	OIL CONSERVATION DIVISION	
Printed Name: Kim Champlin	Approved by District Supervisor: <i>Bob Bell</i> For: <i>Charlie Perrin</i>	
Title Environmental Representative	Approval Date: 4/21/08	Expiration Date:
E-mail Address: Kim_Champlin@xtoenergy.com	Conditions of Approval:	Attached ☐
Date 04/18/08 Phone. 505-333-3100		

* Attach Additional Sheets If Necessary

Incident # *nlmD0929635216* ⁴⁹⁵⁹

CLIENT: <u>XTO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO _____ COCR NO <u>HALL</u>																																												
FIELD REPORT: SPILL CLOSURE VERIFICATION		PAGE No. <u>1</u> of <u>1</u>																																												
LOCATION: NAME: <u>SCHWARTZ, JOHN</u> WELL #: <u>1</u> TYPE: <u>PROD. TANK</u> QUAD/UNIT. <u>6</u> SEC. <u>8</u> TWP. <u>30N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1650'N/1650'E</u> SW NE CONTRACTOR: <u>HOTI (FERNANDO)</u>		DATE STARTED <u>2/6/06</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST <u>NV</u>																																												
EXCAVATION APPROX. <u>20</u> FT. x <u>20</u> FT. x <u>11</u> FT. DEEP. CUBIC YARDAGE: <u>160</u>																																														
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																														
LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM 0498</u> FORMATION: <u>OK</u>																																														
FIELD NOTES & REMARKS: <u>P.O.B. LOCATED APPROXIMATELY 240 FT. N70E FROM WELLHEAD</u>																																														
DEPTH TO GROUNDWATER <u>>100'</u> NEAREST WATER SOURCE: <u>>1,000'</u> NEAREST SURFACE WATER <u>>1,000'</u>																																														
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																														
SOIL AND EXCAVATION DESCRIPTION:																																														
SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR: <u>DR. YELL. ORANGE</u> <u>BEDROCK - PALE YELL. ORANGE</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <u>FIRM</u> / 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 / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION: _____ HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>EXCAVATED SOIL</u> SAMPLE TYPE: <u>GRAB/COMPOSITE</u> - # OF PTS. <u>4</u> ADDITIONAL COMMENTS: <u>P.O.B. - INDICATES POINT OF RELEASE.</u>																																														
OVM CALIB. READ. = <u>53.4</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>10:51</u> AM/PM DATE: <u>2/6/06</u>																																														
FIELD 418.1 CALCULATIONS																																														
SCALE	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																														
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TRAVEL NOTES: CALLOUT: <u>2/6/06 - MORN.</u> ONSITE: <u>2/6/06 - MORN.</u>																																														

Hall Environmental Analysis Laboratory

Date: 16-Feb-06

CLIENT: Blagg Engineering

Client Sample ID: 1 @ 11' - Grab Sample

Lab Order: 0602069

Collection Date: 2/6/2006 10:40:00 AM

Project: Schumacher, John #1 (Production Tank Release

Date Received: 2/7/2006

Lab ID: 0602069-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	610	100		mg/Kg	10	2/14/2006 6:33:43 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	2/14/2006 6:33:43 AM
Surr: DNOP	89.0	60-124		%REC	10	2/14/2006 6:33:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	7200	500		mg/Kg	100	2/9/2006 10:33:41 PM
Surr: BFB	231	79-128	S	%REC	100	2/9/2006 10:33:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	17	5.0		mg/Kg	100	2/9/2006 10:33:41 PM
Toluene	310	5.0		mg/Kg	100	2/9/2006 10:33:41 PM
Ethylbenzene	75	5.0		mg/Kg	100	2/9/2006 10:33:41 PM
Xylenes, Total	810	5.0		mg/Kg	100	2/9/2006 10:33:41 PM
Surr: 4-Bromofluorobenzene	115	87.5-115	S	%REC	100	2/9/2006 10:33:41 PM
EPA METHOD 9056A: ANIONS						Analyst: MAP
Chloride	7.8	1.5		mg/Kg	5	2/10/2006

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
- 11 Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 16-Feb-06

CLIENT: Blagg Engineering Client Sample ID: SW-4 PC @ 6' 4pt Composite S
 Lab Order: 0602069 Collection Date: 2/6/2006 12:35:00 PM
 Project: Schumacher, John #1 (Production Tank Release Date Received: 2/7/2006
 Lab ID: 0602069-02 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	2/14/2006 7:06:41 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/14/2006 7:06:41 AM
Surr: DNOP	97.1	60-124		%REC	1	2/14/2006 7:06:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 12:14:28 PM
Surr: BFB	107	79-128		%REC	1	2/9/2006 12:14:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/9/2006 12:14:28 PM
Toluene	ND	0.050		mg/Kg	1	2/9/2006 12:14:28 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/9/2006 12:14:28 PM
Xylenes, Total	ND	0.050		mg/Kg	1	2/9/2006 12:14:28 PM
Surr: 4-Bromofluorobenzene	104	87.5-115		%REC	1	2/9/2006 12:14:28 PM
EPA METHOD 9056A: ANIONS						Analyst: MAP
Chloride	ND	1.5		mg/Kg	5	2/10/2006

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 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

CLIENT: Blagg Engineering
 Work Order: 0602069
 Project: Schumacher, John #1 (Production Tank Release)

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_S

Sample ID: MB-9748	SampType: MBLK	TestCode: 300_S	Units: mg/Kg	Prep Date: 2/10/2006	RunNo: 18246						
Client ID: ZZZZZ	Batch ID: 9748	TestNo: E300		Analysis Date: 2/10/2006	SeqNo: 449883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.30									
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Sample ID: LCS-9748	SampType: LCS	TestCode: 300_S	Units: mg/Kg	Prep Date: 2/10/2006	RunNo: 18246						
Client ID: ZZZZZ	Batch ID: 9748	TestNo: E300		Analysis Date: 2/10/2006	SeqNo: 449884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	13.66	0.30	15	0	91.1	90	110				
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Sample ID: 0602069-02AMS		SampType: MS		TestCode: 300_S		Units: mg/Kg		Prep Date: 2/10/2006		RunNo: 18246	
Client ID: SW-4 PC @ 6' 4pt. C		Batch ID: 9748		TestNo: E300				Analysis Date: 2/10/2006		SeqNo: 449893	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	12.39	1.5	15	0	82.6	80	120				
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Sample ID: 0602069-02AMSD	SampType: MSD	TestCode: 300_S	Units: mg/Kg	Prep Date: 2/10/2006	RunNo: 18246						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9748	TestNo: E300		Analysis Date: 2/10/2006	SeqNo: 449894						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	12.69	1.5	15	0	84.6	80	120				
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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

CLIENT: Blagg Engineering
 Work Order: 0602069
 Project: Schumacher, John #1 (Production Tank Release)

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_S

Sample ID: MB-9725	SampType: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18235						
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450096						
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

Sample ID: LCS-9725	SampType: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo 18235						
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450097						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)

54.35

10

50

0

109

67.4

117

Sample ID: LCSD-9725	SampType: LCSD	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18235						
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)

56.20

10

50

0

112

67.4

117

54.35

3.35

17.4

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

CLIENT: Blagg Engineering
 Work Order: 0602069
 Project: Schumacher, John #1 (Production Tank Release)

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID: MB-9734	SampType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: ZZZZZ	Batch ID: 9734	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO) ND 5.0

Sample ID: LCS-9734	SampType: LCS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: ZZZZZ	Batch ID: 9734	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO) 27.10 5.0 25 0 108 84 120

Sample ID: 0602069-02A MS	SampType: MS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9734	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448869						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO) 25.00 5.0 25 1.2 95.2 84 120

Sample ID: 0602069-02A MSD	SampType: MSD	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9734	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448870						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO) 26.70 5.0 25 1.2 102 84 120 25 6.58 11.6

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

CLIENT: Blagg Engineering
 Work Order: 0602069
 Project: Schumacher, John #1 (Production Tank Release)

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_S

Sample ID: MB-9734	SampType: MBLK	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: ZZZZZ	Batch ID: 9734	TestNo: SW8021	{SW5035}	Analysis Date: 2/9/2006	SeqNo: 448852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.050									

Sample ID: LCS-9734	SampType: LCS	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: ZZZZZ	Batch ID: 9734	TestNo: SW8021	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448853						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.3786	0.050	0.372	0	102	85.6	116				
Toluene	1.763	0.050	1.78	0	99.0	82.4	120				
Ethylbenzene	0.5654	0.050	0.554	0	102	86.4	111				
Xylenes, Total	1.668	0.050	1.64	0	102	78.4	125				

Sample ID: 0602069-02A MS	SampType: MS	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo 18206						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9734	TestNo: SW8021	(SW5035)	Analysis Date: 2/9/2006	SeqNo. 448857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual

Benzene	0.3427	0.050	0.372	0	92.1	85.6	116				
Toluene	1.632	0.050	1.78	0.0393	89.5	82.4	120				
Ethylbenzene	0.5351	0.050	0.554	0.0246	92.1	86.4	111				
Xylenes, Total	1.547	0.050	1.64	0.0349	92.2	78.4	125				

Sample ID: 0602069-02A MSD	SampType: MSD	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9734	TestNo: SW8021	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.3529	0.050	0.372	0	94.9	85.6	116	0.3427	2.93	27	
Toluene	1.659	0.050	1.78	0.0393	91.0	82.4	120	1.632	1.65	19	
Ethylbenzene	0.5304	0.050	0.554	0.0246	91.3	86.4	111	0.5351	0.882	10	

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

CLIENT: Blagg Engineering
Work Order: 0602069
Project: Schumacher, John #1 (Production Tank Release)

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_S

Sample ID: 0602069-02A MSD	SampType: MSD	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206						
Client ID: SW-4 PC @ 6' 4pt. C	Batch ID: 9734	TestNo: SW8021	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	1.574	0.050	1.64	0.0349	93.8	78.4	125	1.547	1.70	13	

6/8

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.

2/7/2006

Work Order Number 0602069

Received by LMM

Checklist completed by [Signature]
Signature

2/7/06
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

Hall Environmental Analysis Laboratory

Date: 16-Feb-06

CLIENT: Blagg Engineering

Project: Schumacher, John #1 (Production Tank Release

Lab Order: 0602069

CASE NARRATIVE

Analytical Comments for METHOD 8021BTEX_S, SAMPLE 0602069-01A: Elevated surrogate due to matrix interference. Analytical Comments for METHOD 8015GRO_S, SAMPLE 0602069-01A. Elevated surrogate due to matrix interference.

XTO

LOCATION NO:

C.O.C. NO: 4007

LOCATION: NAME: SCHUMACHER, JOHN WELL #: 1 RELEASE: PRO. TANK
QUAD/UNIT: 6 SEC: 8 TWP: 30N RNG: 12W PM: Nmn CNTY: SJ ST: Nmn
QTR/FOOTAGE: SW/NE CONTRACTOR: N/A

DATE STARTED 3/18/08

DATE FINISHED

ENVIRONMENTAL
SPECIALIST *NV*REMEDIATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 140-160

LAND USE. RANGE - Blm

LIFT DEPTH (ft): 1-2

DEPTH TO GROUNDWATER.

2100'

NEAREST SURFACE WATER.

2/000

NEAREST WATER SOURCE.

21000'

NMOCD RANKING SCORE:

NMOC D TPH CLOSURE STD:

7.00 PPM

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR:

DK. YELL. ORANGE

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 -

HC ODOR DETECTED: YES ☒ NO ☐ EXPLANATION -

SAMPLING DEPTHS (LANDFARMS). 6-18 (INCHES)

SAMPLE TYPE: GRAB/COMPOSITE # OF PTS.

ADDITIONAL COMMENTS:

SKETCH/SAMPLE LOCATIONS

252' N64E
FROM WELL HEAD

BERM 62'

65'

75'

579W

12'

LANDFORM PERIMETER

TO WELL HEAD

N26W

579W

N60W

N16W

SAMPLE PT. DESIGNATION

① ② ③ ④ ⑤

OVM CALIB. READ. = 52.4 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 10:25 am DATE 3/17/08

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	791 (8515B)	1425	ND
		"	CHLOR.	"	4.8

SCALE

0 FT

TRAVEL NOTES: CALLOUT:

N/A

ON SITE:

3/18/08

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

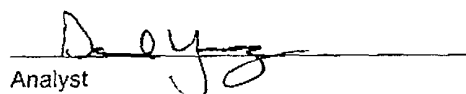
Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	LF - 1 (Landfarm)	Date Reported:	03-24-08
Laboratory Number:	44581	Date Sampled:	03-18-08
Chain of Custody No:	4007	Date Received:	03-18-08
Sample Matrix:	Soil	Date Extracted:	03-20-08
Preservative:	Cool	Date Analyzed:	03-21-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

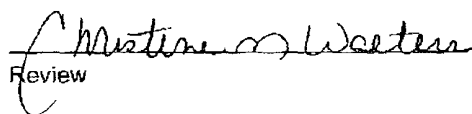
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Schumacher, John #1 5 Pt. Composite Sample.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	LF - 1 (Landfarm)	Date Reported:	03-25-08
Lab ID#:	44581	Date Sampled:	03-18-08
Sample Matrix:	Soil	Date Received:	03-18-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Intact	Chain of Custody:	4007

Parameter

Concentration (mg/Kg)

Total Chloride

4.8

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Schumacher, John #1 5 Pt Composite Sample.

Analyst

Review

CHAIN OF CUSTODY RECORD

4007

Client: BLAGG/ XTO			Project Name / Location: SCHUMACHER, JOHN #1			ANALYSIS / PARAMETERS												
Client Address:			Sampler Name: NELSON VELEZ			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418 1)	CHLORIDE	5 PT. COMPOSITE SAMPLE	Sample Cool	Sample Intact
Client Phone No.:			Client No.: 94034-010															
Sample No./ Identification	Sample Date	Sample Time	Lab No	Sample Matrix	No /Volume of Containers	Preservative												
LF - 1 (LANDFARM)	3/18/08	1425	44581	SOIL	1-4oz.													
Relinquished by: (Signature) <i>Nelson Velez</i>						Date: 3/18/08	Time: 1512	Received by: (Signature) <i>Christina M. Walter</i>						Date: 3/18/08	Time: 1512			
Relinquished by: (Signature)								Received by: (Signature)										
Relinquished by: (Signature)								Received by: (Signature)										
ENVIROTECH INC. 5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615																		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-21-08 QA/QC	Date Reported:	03-24-08
Laboratory Number:	44574	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-21-08
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.8802E+002	9.8842E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0097E+003	1.0101E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: QA/QC for Samples 44574 - 44581 and 44583 - 44584.

Analyst 

Review 