



Legend

- Auger Hole
- Temporary Monitor Well

Figure 1 Aerial

Heidel, Samberson, Cox & McMahon
Epperson 16-Inch Pipeline (Release #1)
Lea County, New Mexico
NMOCD Ref. #: 1RP-4664



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Created By: BJA	Checked By: CTR
April 9, 2018	Scale: 1" = 50'



Certificate of Analysis Summary 579492
Trinity Oilfield Services & Rentals, LLC, Hobbs, NM
Project Name: Epperson 16-Inch Pipeline (Release Site #1)



Project Id:

Contact:

Project Location:

Ben Arguijo

Date Received in Lab: Thu Mar-15-18 02:35 pm

Report Date: 26-MAR-18

Project Manager: Holly Taylor

Analysis Requested		Lab Id:	579492-001				
		Field Id:	TMW-1				
		Depth:					
		Matrix:	GROUND WATER				
		Sampled:	Mar-14-18 12:35				
BTEX by EPA 8021B		Extracted:	Mar-22-18 08:00				
		Analyzed:	Mar-22-18 14:18				
		Units/RL:	mg/L RL				
Benzene			15.3 0.400				
Toluene			9.04 0.400				
Ethylbenzene			0.724 0.400				
m,p-Xylenes			1.43 0.800				
o-Xylene			0.612 0.400				
Total Xylenes			2.04 0.400				
Total BTEX			27.1 0.400				
Chloride by EPA 300		Extracted:	Mar-16-18 17:00				
		Analyzed:	Mar-16-18 20:08				
		Units/RL:	mg/L RL				
Chloride			64.1 2.50				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work, order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor

Holly Taylor
Project Manager

Analytical Report 579492
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Epperson 16-Inch Pipeline (Release Site #1)

26-MAR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)



26-MAR-18

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **579492**
Epperson 16-Inch Pipeline (Release Site #1)
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 579492. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 579492 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 579492



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Epperson 16-Inch Pipeline (Release Site #1)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TMW-1	W	03-14-18 12:35		579492-001



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: Epperson 16-Inch Pipeline (Release Site #1)

Project ID:

Work Order Number(s): 579492

Report Date: 26-MAR-18

Date Received: 03/15/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 579492



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Epperson 16-Inch Pipeline (Release Site #1)

Sample Id: TMW-1
Lab Sample Id: 579492-001

Matrix: Ground Water
Date Collected: 03.14.18 12.35

Date Received: 03.15.18 14.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 03.16.18 17.00

Seq Number: 3044180

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.1	2.50	mg/L	03.16.18 20.08		5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.22.18 08.00

Seq Number: 3044454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	15.3	0.400	mg/L	03.22.18 14.18		200
Toluene	108-88-3	9.04	0.400	mg/L	03.22.18 14.18		200
Ethylbenzene	100-41-4	0.724	0.400	mg/L	03.22.18 14.18		200
m,p-Xylenes	179601-23-1	1.43	0.800	mg/L	03.22.18 14.18		200
o-Xylene	95-47-6	0.612	0.400	mg/L	03.22.18 14.18		200
Total Xylenes	1330-20-7	2.04	0.400	mg/L	03.22.18 14.18		200
Total BTEX		27.1	0.400	mg/L	03.22.18 14.18		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	03.22.18 14.18	
4-Bromofluorobenzene	460-00-4	113	%	70-130	03.22.18 14.18	



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 579492

Trinity Oilfield Services & Rentals, LLC Epperson 16-Inch Pipeline (Release Site #1)

Analytical Method: Chloride by EPA 300

Seq Number: 3044180

MB Sample Id: 7641016-1-BLK

Matrix: Water

LCS Sample Id: 7641016-1-BKS

Prep Method: E300P

Date Prep: 03.16.18

LCSD Sample Id: 7641016-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.500	25.0	24.5	98	24.5	98	90-110	0	20	mg/L	03.16.18 19:32	

Analytical Method: Chloride by EPA 300

Seq Number: 3044180

Parent Sample Id: 579464-001

Matrix: Drinking Water

MS Sample Id: 579464-001 S

Prep Method: E300P

Date Prep: 03.16.18

MSD Sample Id: 579464-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.14	25.0	33.2	104	32.9	103	90-110	1	20	mg/L	03.16.18 19:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3044180

Parent Sample Id: 579469-008

Matrix: Ground Water

MS Sample Id: 579469-008 S

Prep Method: E300P

Date Prep: 03.16.18

MSD Sample Id: 579469-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	182	125	330	118	322	112	90-110	2	20	mg/L	03.16.18 21:14	X

Analytical Method: BTEX by EPA 8021B

Seq Number: 3044454

MB Sample Id: 7641280-1-BLK

Matrix: Water

LCS Sample Id: 7641280-1-BKS

Prep Method: SW5030B

Date Prep: 03.22.18

LCSD Sample Id: 7641280-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0793	79	0.0899	90	70-130	13	25	mg/L	03.22.18 07:47	
Toluene	<0.00200	0.100	0.0790	79	0.0866	87	70-130	9	25	mg/L	03.22.18 07:47	
Ethylbenzene	<0.00200	0.100	0.0830	83	0.0919	92	70-130	10	25	mg/L	03.22.18 07:47	
m,p-Xylenes	<0.00400	0.200	0.161	81	0.179	90	70-130	11	25	mg/L	03.22.18 07:47	
o-Xylene	<0.00200	0.100	0.0817	82	0.0908	91	70-130	11	25	mg/L	03.22.18 07:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		73		75		70-130	%	03.22.18 07:47
4-Bromofluorobenzene	106		106		111		70-130	%	03.22.18 07:47

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$

LCS - Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS - Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 579492

Trinity Oilfield Services & Rentals, LLC Epperson 16-Inch Pipeline (Release Site #1)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3044454

Parent Sample Id: 579454-019

Matrix: Ground Water

MS Sample Id: 579454-019 S

Prep Method: SW5030B

Date Prep: 03.22.18

MSD Sample Id: 579454-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD	Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0870	87	0.0853	85	70-130	2	25		mg/L	03.22.18 08:24	
Toluene	<0.00200	0.100	0.0869	87	0.0869	87	70-130	0	25		mg/L	03.22.18 08:24	
Ethylbenzene	<0.00200	0.100	0.0924	92	0.0925	93	70-130	0	25		mg/L	03.22.18 08:24	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.180	90	70-130	1	25		mg/L	03.22.18 08:24	
o-Xylene	<0.00200	0.100	0.0906	91	0.0907	91	70-130	0	25		mg/L	03.22.18 08:24	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits				Units	Analysis Date	
1,4-Difluorobenzene			91		90		70-130				%	03.22.18 08:24	
4-Bromofluorobenzene			110		109		70-130				%	03.22.18 08:24	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result
MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston 4143 Greentree Dr. Suite 201 TX 77047 (281)240-4200 Odessa 12800 West I-20 East Odessa, TX 79705 (409)563-1800

CHAIN OF CUSTODY RECORD

Page 1 of 1

LAB W.O. #:

579492

Field billable hrs:

Time:

TAT Work Days = D Need results by:

Sid (5-7D) 5hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

VC

PC

1

EI

1

Container Type Codes
ES Empty Sample
TS Tare Container
MS Material Sample
GS Glass Container
PS Plastic Container
PC Plastic Container
FC Plastic Container
FC Plastic Container

Preservative Type Codes
A. HNO₃ E. HCL
B. HNO₃ F. HNO₃
C. H₂SO₄ G. H₂SO₄
D. HNO₃ H. HNO₃
I. HNO₃ J. HNO₃
K. HNO₃ L. HNO₃
M. HNO₃ N. HNO₃
O. HNO₃ P. HNO₃
Q. HNO₃ R. HNO₃
S. HNO₃ T. HNO₃
U. HNO₃ V. HNO₃
W. HNO₃ X. HNO₃
Y. HNO₃ Z. HNO₃

Matrix Type Codes
GW Ground Water
WW Wastewater
DW Drinking Water
SW Surface Water
OW Ocean Water
PW Product Water
PL Product Liquid
PS Product Solid
SL Sample

REMARKS

Temp: 2.1
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

IR ID: R-8

Temp: 2.1
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

Temp: 2.1
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

Temp: 2.1
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

Temp: 2.1
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC
Date/ Time Received: 03/15/2018 02:35:00 PM
Work Order #: 579492

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: KL

PH Device/Lot#: 213315

Checklist completed by:

Katie Lowe

Date: 03/16/2018

Checklist reviewed by:

Holly Taylor

Date: 03/16/2018